

0.12A 0.08A 0.09A

Track Busway Product Selection Guide

T1-T5 US SYSTEMS S3-S5 US SYSTEMS



T1-T5 SYSTEMS

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T1 SERIES: 40, 50 & 60 AMPS	
T2 SERIES: 60, 100 AMPS	
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T5 AND S5 SERIES: 250, 400, 500, 600, 800, 1000 & 1200 AMPS	



SPECS & INTRODUCTION

SPECS

This specification covers the electrical characteristics and general requirements for a track busway system, hereafter referred to as (Track Busway or busway). The system shall be designed primarily for overhead distribution of electrical power. Supporting designated work areas and equipment. Once installed the busway will provide a simple, versatile, fast and economic means of distributing power. Loads fed from a variety of plug-in units can be easily added or removed without shutting power down to the busway.

Track Busway shall be designed and manufactured to the following standards:

1. Underwriters Laboratories Standard, UL 857 — The common UL, CSA, and ANCE Standard for Busways that is derived from the fifth edition of CSA Standard C22.2 No. 27, the twelfth edition of UL 857, and the second edition of NMX-J-148-1998-ANCE.

*All standards and certifications available upon request

INTRODUCTION

Starline is the leader in electrical power distribution in the mission critical, commercial and light industrial industries with Starline Track Busway. This system was designed to meet the rugged specification of the UL857, Busway and Associated Fittings, with the flexible features of track lighting — and is available in systems with 40, 50 & 60 amps with isolated ground.

It is the simple, versatile, fast and economical solution for supplying power to electrical loads and is unique because the busway can be instantly tapped at any location, with a variety of plug-in units.

The Product Selection Guide was developed to help the design engineer understand and consider all of the options available with Starline Track Busway when designing a system.

This guide is all-inclusive; however, Starline excels at collaborating with design engineers to provide solutions for any application. If you have a need that is not found in this guide, please contact us at **1-800-245-6378** or email us at **info@starlinepower.com**. We will be happy to answer your questions over the telephone or schedule a visit with one of our local representatives.

Also, if viewing this guide in print, please keep in mind that this is a working document. Starline reserves the right to change information and descriptions of listed services and products. The latest version of this guide is available for download at <u>downloads.starlinepower.com</u>.



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T1 SERIES

40-50-60T1 SYSTEMS

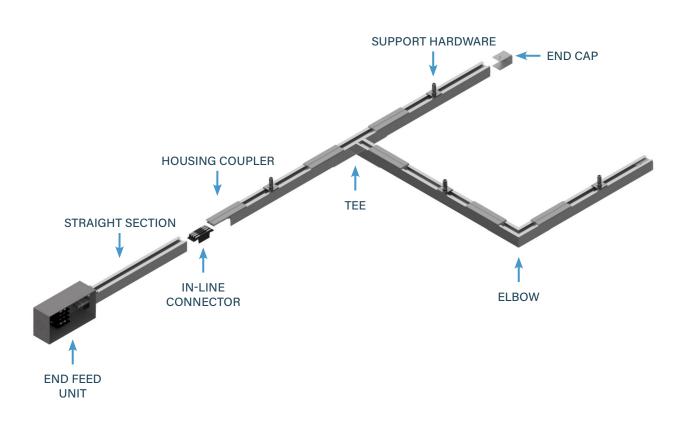
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SYSTEM LAYOUT DRAWING



PLUG-IN UNITS

For further information on applicable T1 plug-in unit options, please consult the factory.

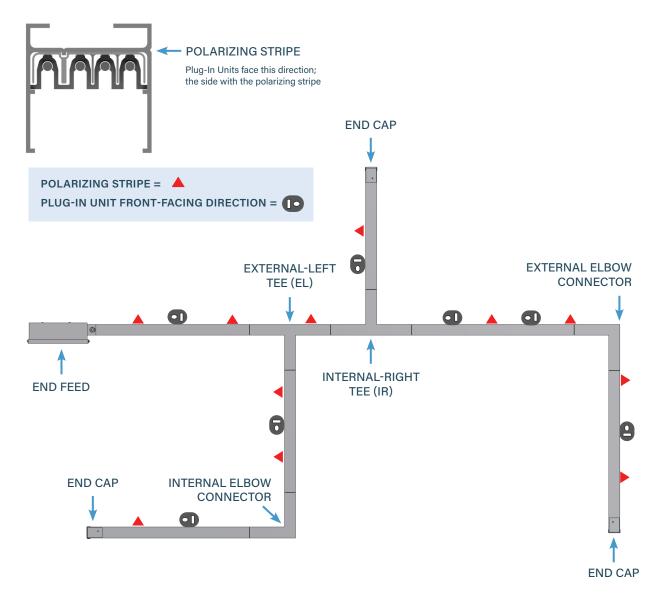


POLARITY TIPS

Starline utilizes a unique polarizing method to prevent mismatched components from being inadvertently connected to each other. The system is designed to prevent cross phasing during installation.

It is particularly important to understand this design concept prior to ordering and/or installing some components.

For example, if the face direction of a Starline plug-in unit is important in your installation consider that they will always face the side with the polarizing stripe.





SYSTEM LAYOUT TIPS

POWER FEEDS

Determine location of power feeds based on relation to power source, existing feeders and voltage drop concerns for longer runs.

SUPPORT HARDWARE

Support hardware is spaced no more than 10 feet apart. Refer to **page 1.24** for support hardware details. Contact your local Starline applications engineer for any questions.

INSTALLATION

Printed installation drawings are supplied with each system shipment and they are also available for download online at <u>downloads.starlinepower.com</u>. CAD files of these drawings are also available by contacting your local Starline applications engineer.

BUSWAY HOUSING SECTIONS

Standard busway lengths are available in 20, 10 and 5-foot increments. Although the factory can cut individual Starline Track Busway sections to any length under 20 feet, it is highly recommended to keep all layout runs in increments of 5 feet to simplify layout and installation. Custom lengths can be made but can increase lead time and make layout and installation a bit more complex.

BUSWAY TEES AND ELBOWS SECTIONS

Try to keep all runs as straight as possible as tees and elbows are added cost. With grid or any other bidirectional applications, there is a choice of two-plane with each direction on a separate plane or using cross sections if single-plane is required. Single-plane applications can provide power in both directions as well as parallel runs.

LENGTH (OF BUSWAY FOR A ONE V	OLT DROP IN LINE TO LIN	E VOLTAGE:
SYSTEM DESIGNATION	DISTRIBUTED LOAD	VOLTAGE DROP @ 0.8 PF SINGLE PHASE	VOLTAGE DROP @ 0.8 PF THREE PHASE
40T1	40 amps	36 ft	63 ft
50T1	50 amps	29 ft	50 ft
60T1	60 amps	29 ft	51 ft



COMPONENT RELATIONSHIP TIPS

When ordering material, it is important to understand the relationship between various components.

EXAMPLES

- Each straight section requires a connector and coupler.
- Three Housing Couplers (HC) are needed for each Tee Connector.

GENERAL SUPPORT HARDWARE RULE TO FOLLOW:

10 feet maximum spacing between supports and we recommend 10% more than the required quantity to cover potential layout changes.

- Total Power Feeds and End Caps can be determined by counting the total number of unconnected runs.
- Before specifying or ordering Elbow or Tee connectors, it is important to understand polarity and the relationship to direction of outlets. Please refer to **page 1.3 Polarity Tips** for more detail.



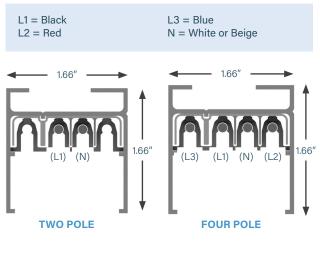
STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight sections consist of an extruded aluminum shell with insulated copper conductor strips mounted on the top interior wall. The aluminum housing acts as a 100% ground path and each straight section has an open access slot over its entire length for the insertion of snap-in plug-in units. Housing configurations include 2 and 4 pole varieties, 480/277 Volts max. Track Busway straights are connected together using a joint kit, which includes an in-line connector and housing coupler (found under Accessories).

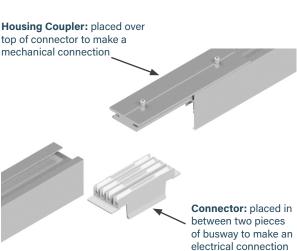
Sections are supported every 10 feet maximum and can support 100 pounds hanging weight between vertical supports. Four-pole busway is normally used in 3-phase/4-wire power systems. Four-pole busway may be used for 2 independent single-phase circuits at different voltages. Sections can be factory cut to any length.





WEIGHT

10 ft 40 Amp, 2 or 4 pole: 7/8 lbs 10 ft 50 Amp, 2 or 4 pole: 7/8 lbs 10 ft 60 Amp, 2 or 4 pole: 8/9 lbs





STRAIGHT SECTIONS: RECESSED

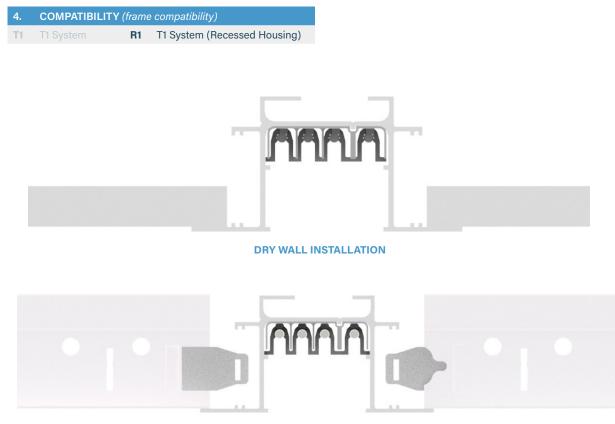
PRODUCT DESCRIPTION

T1 housing is also available in a slightly different design, specifically tailored for busway that is meant to be installed recessed into a suspended ceiling.

Busway straight sections are available in 20, 10, and 5 foot lengths for two standard drop or suspended ceiling configurations.

For recessed housing, please choose 'R1' as opposed to 'T1' in your product number.

*refer to page 1.8 option 4. Compatibility (frame compatibility)



STANDARD AND REGULAR TILE INSTALLATION

050 50 amps

6. Neutral/Ground Busbar (size of neutral busbar and/or ground)

7. Polarization (orientation of section for mating purposes)

2

R1 T1 System (Recessed Housing)

1 Phase plus Neutral



EXAMPLES

040 40 amps

060 60 amps

T1 T1 System

Copper

Standard

С

4

S

4. Compatibility (frame compatibility)

5. Material (busbar material)

3 Phase plus Neutral

8. Straight Length (length of section) XXYY XX=feet, YY=inches

US060T1C4S-0906C-STD0 = US System, Straight Section, 60 amps, T1 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 9 foot - 6 inch Straight Length, Continuous Busway Access, Factory Mill Finish

<u>US040R1C2S-0500C-PA50</u> = US System, Straight Section, 40 amps, T1 System-R1 Recessed Housing, Copper Conductor, 1 Phase plus Neutral, Standard Polarization- 5 foot Straight Length, Continuous Busway Access, Painted RAL 3005



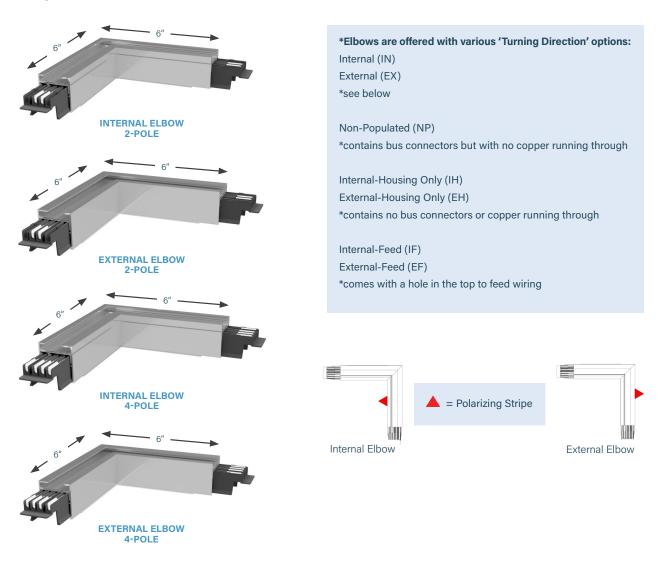
ELBOW SECTIONS

PRODUCT DESCRIPTION

Factory pre-assembled elbow sections are used for making a 90-degree turn. Elbows are connected to busway sections electrically by means of built-in bus connectors. Connectors are installed by "snapping" into position with housing section butted together. Connectors are polarized to prevent phase mismatch. Housings are then mechanically joined via couplers (found in Accessories section).

Dimensions below are 6 inches from center to center, not end to end.

Weight .5 lbs



			CTION NUME							
		U	Е	040	T1	С	4	S	- IN	
		l. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	8. Turning Direction	
. Sj	ystem (standard of	measure)			9. Paint Colo	r	ection (direction	n of section po	larizing stripe)
U 2. P E		Type (sect Section	ion compone	nt)		IN NF EH EF	External-	Housing Only		rnal nal-Housing Only nal-Feed
040	Product 40 am 60 am	ps	aximum ampe	erage) 050 50 am	ps	ST BL	DO Factory KO Paint Fa	actory Black	REDO Pair BLUO Pair	nt Factory Red nt Factory Blue
4. C F1	Compati T1 Sys		ne compatibili		em (Recessed ig)		110 Paint Fa	actory White	** KAL (ple	ease see page 1.23)
5. N C	/laterial Copp	<i>(busbar ma</i> er	terial)							
6. N 4		Ground B se plus Ne			ar and/or ground e plus Neutral	d)				
7. Po S	<mark>olarizat</mark> Stand		ation of sectio	n for mating p	urposes)					

EXAMPLES

<u>UE060R1C4S-IN-BLK0</u> = US System, Elbow Section, 60 amps, T1 System-R1 Recessed Housing, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Painted Factory Black

UE050T1C2S-EH-STD0 = US System, Elbow Section, 50 amps, T1 System, Copper Conductor, 1 Phase plus Neutral, Standard Polarization, External Turning Direction Housing Only, Factory Mill Finish



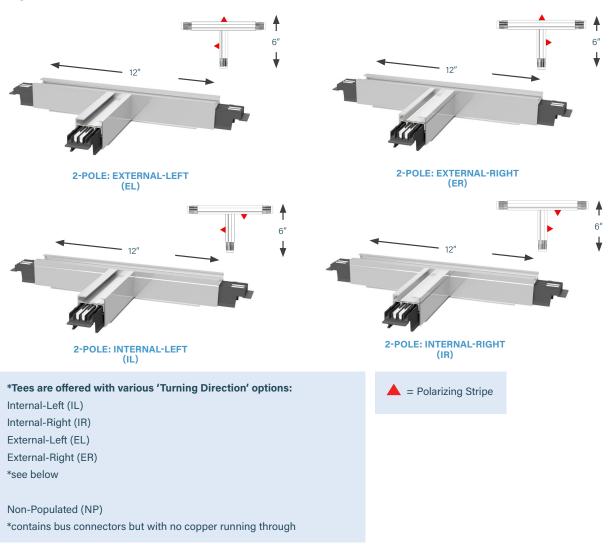
TEE SECTIONS

PRODUCT DESCRIPTION

Similar to elbow connectors, tee connectors are used for connecting branch housing sections at 90 degrees to the main run. Please be aware of polarization issues before making your final selection (refer to **page 1.3 Polarity Tips**).

Tees are electrically connected to sections of 40/50/60 amp busway by means of built-in bus connectors. Connectors are installed by "snapping" into position with housing section butted together. Connectors are polarized to prevent phase mismatch. Housings are then mechanically joined via couplers, ordered separately.

Weight 1 lb



TEE SECTIONS: PRODUCT NUMBERS

		_						. –			
	U	Т	040	T1	С	4	S	– IR			
	1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	8. Turning Direction			
					- STD)					
					9.						
					Paint Colo	r					
1. System	(standard of	measure)			8.1	urning Dire	ection (directio	n of section po	arizing stripe)		
U US					IL IB						
2. Produc	t Type (sect	ion componer	nt)		NP				nai-night		
T Tee S	Section				9. F	aint Color	(allows painting	of the busway	housing)		
		aximum ampe					Mill Finish Actory Black		nt Factory Red nt Factory Blue		
040 40 ar 060 60 ar			050 50 am	OS			actory White		ase see page 1.23		
4. Compa ⁻	tibility (fram	ne compatibilit	ty)								
T1 T1 Sy	/stem		R1 T1 Syste Housin	em (Recessed g)							
5. Materia	al (busbar ma	terial)									
C Copp	per										
6. Neutral	l/Ground B	usbar (size o	of neutral busb	ar and/or ground	1)						
4 3 Pha	ase plus Ne	utral	2 1 Phas	e plus Neutral							
7. Polariza	ation (orienta	ation of section	n for mating p	irposes)							
S Stand	dard										

EXAMPLES

UT060T1C4S-IR-RED0 = US System, Tee Section, 60 amps, T1 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Red

UT040R1C2S-EL-STD0 = US System, Tee Section, 40 amps, T1 System-R1 Recessed Housing, Copper Conductor, 1 Phase plus Neutral, Standard Polarization, External-Left Turing Direction, Factory Mill Finish



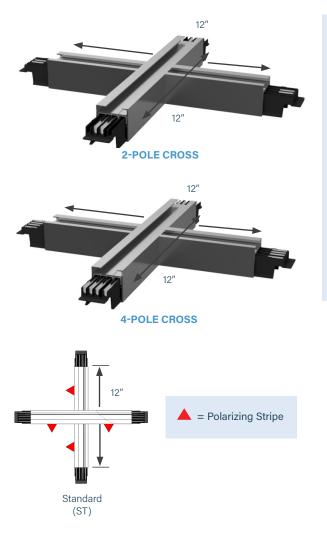
CROSS SECTIONS

PRODUCT DESCRIPTION

Similar to tee connectors, crosses are typically used for grid designs. Please be aware of polarization issues before making your final selection (refer to **page 1.3 Polarity Tips**).

Crosses are electrically connected to sections of 40/50/60 amp busway by means of built-in bus connectors. Connectors are installed by "snapping" into position with housing section butted together. Connectors are polarized to prevent phase mismatch. Housings are then mechanically joined via couplers, ordered separately.

Weight 1.5 lbs



*Crosses are offered with various 'Turning Direction' options: Standard (ST) *see below Internal (IN) External (EX) Internal-Left (IL)

Internal-Right (IR) External-Left (EL) External-Right (ER) *For structural configuration, empty legs of the cross may be ordered. Please consult your applications engineer.

Non-Populated (NP) *contains bus connectors but with no copper running through

	SS SEC DUCT									
	U	Х	040	T1	C		4	S	- ST	
	1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Materi	al	6. Neutral/ Ground Busbar	7. Polarization	8. Turning Direction	
1. Syster U US	n (standard of	measure)			9. Paint	Color		ection (directio		olarizing stripe) n-Populated
2. Produ	ict Type (section	ion compone	nt)			IL EL	Internal-L External-	_eft	IR Inte	ernal-Right
	oss Section	vinum ampo						(allows painting	-	
040 40 a 060 60 a	amps	iximum ampe	050 50 am	ps		BLK	O Paint Fa	Mill Finish actory Black actory White	BLUO Pa	aint Factory Red aint Factory Blue allease see page 1.23)
1.1	atibility (fram System	e compatibili		em (Recessed Ig)						
5. Mater	ial (busbar ma	terial)								
C Co	pper									
6. Neutra	al/Ground B	usbar (size o	of neutral bush	ar and/or ground	d)					
4 3 P	hase plus Ne	utral	2 1 Phas	e plus Neutral						
	zation (orienta ndard	ation of sectio	on for mating p	urposes)						

EXAMPLES

<u>UX050T1C4S-NP-RED0</u> = US System, Cross Section, 50 amps, T1 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Non-Populated Turning Direction, Painted Factory Red

<u>UX060R1C2S-IL-STD0</u> = US System, Cross Section, 60 amps, T1 System-R1 Recessed Housing, Copper Conductor, 1 Phase plus Neutral, Standard Polarization, Internal-Left Turning Direction, Factory Mill Finish

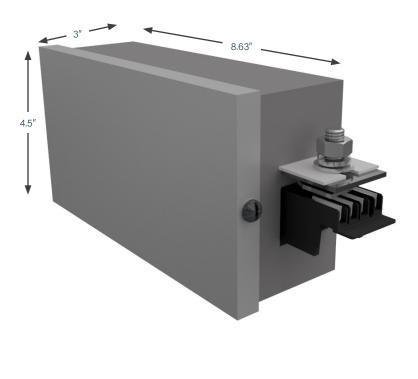


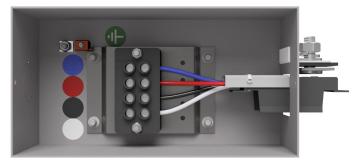
END FEED UNITS

PRODUCT DESCRIPTION

An end feed unit consists of a steel junction box with a removable side, a connector to insert into the busway run and terminal block for field connections. The unit is bolted to the first busway section.

Weight 3.3 lbs





INTERNAL VIEW

U	F	040	T1	С	4	S	- S	R	S	Ν
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	8. n Lug/Box Options	9. Lid Orientation	10. Accessories Package	11. Accessories Location
				*12. System	- ST					
1. System	m (standard o	f measure)			9. R	Lid Orientat Right	tion (from the te	erminal, side wit	h removable lie	d)
2. Produ		ction compone	nt)			0	es Package (o,	ptional accesso	ries for feed un	its)
3. Produ 040 40 060 60	amps	naximum ampe	erage) 050 50 amps		N	None (N	,			essory)
4. Comp	oatibility (fra	me compatibili	ty)			2. System (li. Line to Li	ine to line or line ine		em Line to Neutr	al
T1 T1	System		R1 T1 System Housing)	n (Recessed	d *	& LN specific	cation required o 6 Neutral/Groui	nly when orderi		
	r ial (busbar m	aterial)			13	. Paint Colo	r (allows paintin	a of the busway	housina)	
	pper				S1	DO Factory	/ Mill Finish	RED0 Pair	nt Factory Re	
	r <mark>al/Ground</mark> Phase plus N		of neutral busbar 2 1 Phase	and/or grour olus Neutra	14/		actory Black actory White		nt Factory Blu ase see page 1.	
	zation (orien	tation of sectio	n for mating purp							
8. Lug/I	Box Options	(<i>standard/do</i> Standard bo	ıble/bolt lugs and							

EXAMPLE

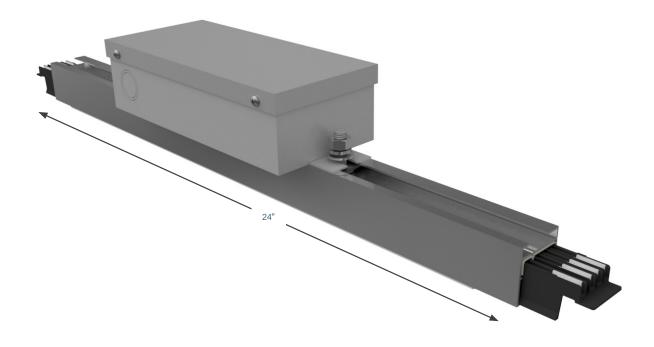
UF040T1C4R-SRSN-BLU0 = US System, End Feed, 40 amps, T1 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Right lid Orientation, Standard Accessory Package, No Accessories Location, Painted Factory Blue



ABOVE FEED UNITS

PRODUCT DESCRIPTION

Weight 5 lbs





INTERNAL VIEW

		ED UN NUME									
U	А	040	T1	С	4	S	-	S	Ν	S	Ν
System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarizatio	on	8. Lug/Box Options	9. Lid Orientation	10. Accessories Package	11. Accessorie Location
		- 02	200 C	01	2 -	LL -	- S	TD0	*Optional		
		12. Straig Leng	,	14. Feed Locati		*15. System	16. Pair	nt Color			
1. Syster U US	n (standard o	f measure)				I <mark>O. Accessor</mark> S Standar		ackage (d	optional accesso	ries for feed ur	iits)
	ict Type (sed ove Feed	ction compone	nt)			11. Accessori N None (N		ocation (f	rom the terminal	, side with acco	essory)
040 40	amps	naximum ampe	<i>rage)</i> 050 50 amps			12. Straight L 1200 2 feet	.engt	h (optiona	l accessories for	feed units)	
	atibility (frai	me compatibili				3. Busway A C Continu		s (how plu	igs access the b	usway	
	System		R1 T1 System Housing)	n (Recessed	1	14. Feed Loc D12 12 inche		(location o	of the center of t	he top feed)	
	r ial (<i>busbar m</i> pper	aterial)			k	15. System (line to	line or line	e to neutral syste		
	al/Ground I hase plus N		of neutral busbar 2 1 Phase p	and/or groun olus Neutral	d) ,	LL Line to I LL & LN specia reference optic	ficatior		only when orderi	Line to Neuti ing a 2-pole sys	
	<mark>zation</mark> (orient ndard	tation of sectio	n for mating purp R Reversed						ng of the busway		
•	1 - C	(<i>standard/dou</i> Standard bo>	ible/bolt lugs and	l box size)		STD0 Factor BLK0 Paint WHT0 Paint	Facto	ry Black	BLUO Pair	nt Factory Re nt Factory Blu ease see page 1	le
	rientation (fi ne (N/A)	rom the termin	al, side with remo	vable lid)							

EXAMPLE

<u>UA060T1C2S-SNSN-0200C012-LN-WHT0</u> = US System, Above Feed, 60 amps, T1 System, Copper Conductor, 1 Phase plus Neutral, Standard Polarization, Standard Lugs, Standard Box, No Lid Orientation, Standard Accessory Package, No Accessories Location- 2 foot Straight Length, Continuous Busway Access, 12 inch Feed Location, Line to Neutral System, Painted Factory White

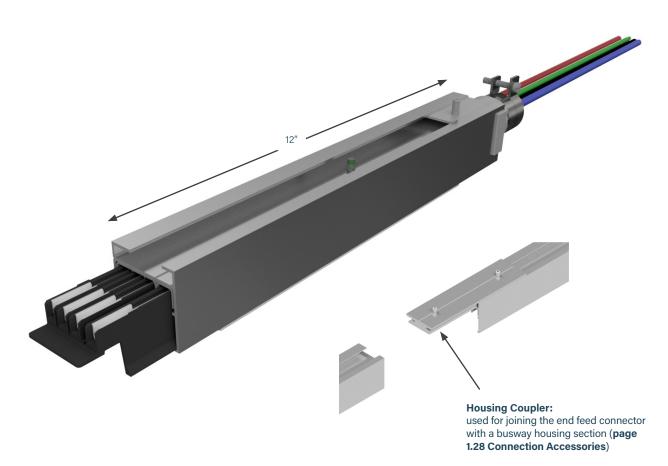


END FEED CONNECTOR UNITS

PRODUCT DESCRIPTION

An end feed connector provides an inconspicuous way to connect to power. It consists of a 1 foot section of busway with connector mounted inside and wire lead exiting through the end cap. A 1 inch conduit mounting adapter is included. A housing coupler (ordered separately) is used to connect to the busway section.

Weight 2 lbs



	FEED CC DUCT NU			NITS:					
	U	С	040	T1	С	4	S	- 024	
	1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	8. Wire Length	
			- *9. Sys	10.	int Color	*Optional			
	(standard of measu	ıre)					length of wire in		
U US					024 24 i 072 72 i		04: 09:		
	t Type (section con Feed Connector	mponent)			*9. Syste	m (line to line	e or line to neutr	al system	
040 40 an			50 amps		*LL & LN s		LN equired only whe ral/Ground Bush	en ordering a 2-	o Neutral pole system
060 60 an	nps				10 Daint	Color (-llau	s painting of the	·)
4. Compat T1 T1 Sy	s ibility (frame com stem	R1	T1 System (Re Housing)	ecessed	STDO Fa Blko Pa	actory Mill F aint Factory aint Factory	inish RE Black BL	DO Paint Fac UO Paint Fac NAL (please se	tory Red tory Blue
5. Materia C Copp	l (busbar material) per							(picace set	- page 1120)
6. Neutral	/Ground Busba	r (size of neut	ral busbar and/	or ground)					
4 3 Pha	ase plus Neutral	2	1 Phase plus	Neutral					
-									
	tion (orientation o	f section for n	nating purposes	s)					

EXAMPLES

UC050T1C2R-048-LN-RED0 = US System, End Feed Connector, 50 amps, T1 System, Copper Conductor, 1 Phase plus Neutral, Reversed Polarization, 48 inch Wire Length, Line to Neutral System, Painted Factory Red

UC060R1C4S-072-STD0 = US System, End Feed Connector, 60 amps, T1 System-R1 Recessed Housing, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 72 inch Wire Length, Factory Mill Finish

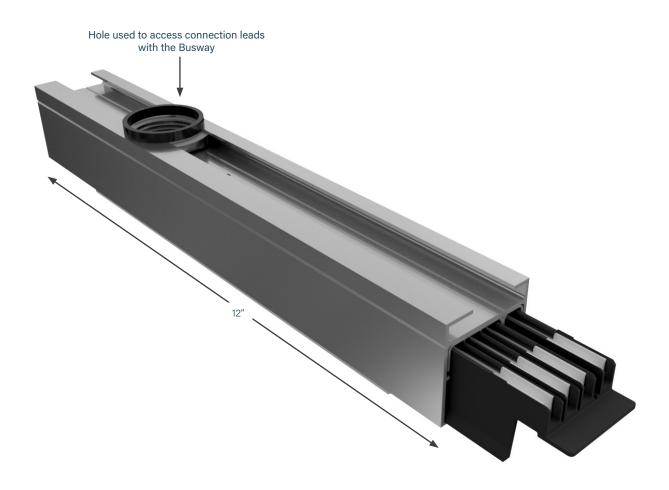


PENDANT FEED UNITS

PRODUCT DESCRIPTION

A Pendant Feed consists of a 1 foot busway section with a 1 inch conduit size access hole for access to connection leads inside the busway. A 1 inch conduit mounting adapter is included.

Weight 2 lbs



	NDAN1 ODUC ⁻									
		U	Ρ	040	T1	С	4	S	– LL	
	1. Sy	ystem	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	*8. System	
υι	tem (standard JS duct Type (s				9. Pain	LL Lin *LL & LN	e to Line specification re	or line to neutr LN quired only whe	Line t en ordering a 2-	o Neutral pole system
P F	Pendant Feed duct Frame	d						ral/Ground Busk		<i>q</i>)
040 4	0 amps 0 amps	(maximum		50 amps		STDO F Blko F	Factory Mill Fi Paint Factory Paint Factory	nish RE Black BL	DO Paint Fac UO Paint Fac IAL (please se	tory Red tory Blue
	n patibility (fi 「1 System	rame comp	R1	Г1 System (R Housing)	ecessed					e page 1.23)
	t erial (<i>busbar</i> Copper	material)								
	utral/Ground Phase plus			<i>al busbar and,</i> 1 Phase plus	Ŭ /					
	arization (orie	entation of		ating purposes Reversed	s)					

EXAMPLES

<u>UP040R1C2R-LL-PH50</u> = US System, Pendant Feed, 40 amps, T1 System-R1 Recessed Housing, Copper Conductor, 1 Phase plus Neutral, Reversed Polarization, Line to Line System, Painted RAL 5015

UP060T1C4S-STD0 = US System, Pendant Feed, 60 amps, T1 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Factory Mill Finish



RAL COLORS

1ST CHAR	ACTER
Р	Paint

2ND CHA	RACTER
0	100
1	101
2	102
3	103
4	200
5	201
Α	300
В	301
С	302
D	303
E	400
F	401
G	500
н	501
J	502
к	600
L	601
М	602
Ν	603
Р	700
Q	701
R	702
S	703
т	704
U	800
V	801
W	802
х	900
Υ	901
z	902

3RD CHA	RACTER
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

4TH CHARACTER0

EXAMPLE:

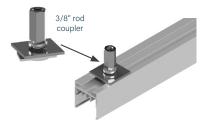
P B 2 0 = Paint RAL 3012



ACCESSORIES: SUPPORT HARDWARE

THREADED ROD

For mounting to 3/8 - 16 threaded rod. Can be inserted anywhere along the top full-access slot of busway. Hanger support is required every 10 feet maximum. Part Number URHB-3 Available in plain zinc or black (-BLK) Weight .3 lb



3/8" or 1/4"

Stud

STANDARD

For mounting to strut or other flat surfaces. Twist-in design allows inserting anywhere along the top full-access slot on the busway. Hanger support is required every 10 feet maximum.

WEIGHT HOOK ADAPTER

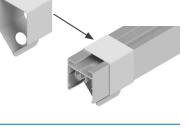
Can be used as a hanger to suspend the busway from chains or cables. Can also be used to hang loads of up to 50 pounds under the busway, such as light fixtures, tools and balancers.

T-BAR SUSPENDED CEILING

For mounting to an inverted T-bar. The clip locks onto T-bar and the busway is connected to the stud on the clip. T-bar is mounted with surface clip. Maximum spacing is 5 feet. Part Number UTHB-3 (3/8") UTHB-1/4 (1/4") Available in plain zinc or black (-BLK) Weight .2 lb

Part Number UWHRT1 Available in plain zinc or black (-BLK) Weight .2 lb

Part Number UTHB-5 Available in plain zinc Weight .1 lb





ACCESSORIES: SUPPORT HARDWARE

SURFACE MOUNT

For mounting to a surface. Comes with a 7/32 inch hole.

For rod mounting, this comes with a 7/16 inch hole.

CABLE

For mounting to a 1/16 inch or 3/32 inch aircraft cable with easy grip clamp assembly. Cable is not included. Hanger support is every 10 feet maximum.

CROSSOVER BRACKET

Two plane (over-under): the most economical method for providing single, two or three phase power in both directions. Use simple straight runs with power feeds from either end.

Part Number UGBT1-OU2 Available in plain zinc or black (-BLK) *4 required

Part Number UMCT1-S (surface)

Available in all standard

and RAL colors UMCT1-R (rod)

No available colors

Part Number

UACH-1 (1/16" cable)

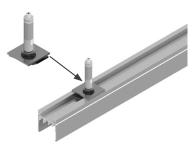
UACH-2 (3/32" cable)

Available in plain zinc

Weight

.2 lb



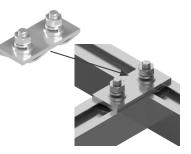




TWO-HOLE GRID BRACKET

Used to make the mechanical connection between two perpendicular pieces of T1 housing.

Part Number UGBT1-SP2 Available in plain zinc or black (-BLK)





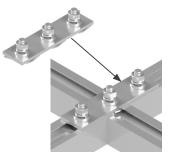


ACCESSORIES: SUPPORT HARDWARE

THREE-HOLE GRID BRACKET

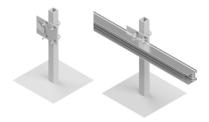
Used to make the mechanical connection between three, intersecting pieces of T1 housing.

Part Number UGBT1-SP3 Available in plain zinc or black (-BLK)



RAISED MOUNTING BRACKET

For mounting the busway horizontally (with access slot facing to the side) for under floor applications. Part Number URFBT1 Available in plain zinc or black (-BLK)





ACCESSORIES: CONNECTOR AND ADAPTERS

MONOPOINT ADAPTER

The monopoint track lighting adapter is compatible with a variety of Juno style track lighting fixtures, providing a direct connection to T1 Busway.

Weight

0.5 lbs

IP50 CONNECTOR

The IP50 connector can be hardwired into lighting fixtures other small loads to connect directly into T1 Busway.

*Additional fuse amperage available. Please consult factory.

Weight 0.5 lbs Part Number IP50-30-4

Part Number

UMPT1-1

(J-Style)





ACCESSORIES: CONNECTION HARDWARE

JOINT KIT

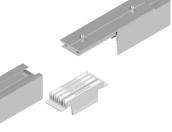
For the connection of adjacent busway sections. Each kit is comprised of an inline connector and housing coupler.

In-Line Connector: sections of busway are joined electrically by means of an in-line connector.

Housing Coupler: sections of busway are joined mechanically by means of a housing coupler. One is required per connection point.

IN-LINE CONNECTOR

The connector is installed by 'snapping' into position with housing sections butted together. All in-line bus connectors are polarized to prevent phase mismatch. Part Number UJKT1-2 (for 2-pole systems) UJKT1-4 (for 4-pole systems) Available in all standard and RAL colors



Part Number UBCT1-2 (for 2-pole systems) UBCT1-4 (for 4-pole systems)





4-pole connector

HOUSING COUPLER

Housing couplers make the mechanical connection between sections of busway.

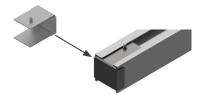
Part Number UHCT1 Available in all standard and RAL colors



END CAP

Used for insulating the female end of the busway.

Part Number UECT1 Available in standard & RAL colors UECR1 is required for recessed housing Weight: .2 lb



OPTIONAL CLOSURE STRIP

Made of rigid PVC, the closure strip is used to close the continuous access slot of the busway. It may be used for aesthetic purposes, for keeping dust and dirt from entering the busway or as an added safety measure. It is easily cut to length in the field to be installed around plug-in units.

Part Number UCST1 Available in standard colors



SERVICES

Regular servicing of busway systems is crucial for ensuring that your system performs at its best. By conducting regular maintenance, you can identify and address any potential issues before they turn into expensive problems, thus saving you time and money in the long run. Regular servicing can help extend the lifespan of your busway system, ensuring that it meets safety standards and complies with regulations. Choose from various offerings and customize a service plan that works best for you.

WE ARE CURRENTLY OFFERING THE FOLLOWING SERVICES:

COMMISSIONING AND EQUIPMENT RENTALS

Designing a mission-critical facility involves a significant investment of time and money. Through comprehensive commissioning services, Starline can help guarantee your project delivers the outcomes you expect.

Whether you need rental equipment to test your busway system or certified technicians to perform the testing, Starline has you covered. Choose from our inventory of load bank tap-offs and associated gear, or work with a Starline Engineer to customize and perform a commissioning plan to fit your specific needs.

METER SERVICES

Starline's certified technicians make optimizing your meters' performance and functionality a breeze. Our comprehensive on-site meter programming service includes inspecting, programming, reporting, and optional retrofitting services for you existing systems.

STARTUP AND SYSTEM CERTIFICATION

At Starline, we are committed to ensuring the success of your project. Our team understands the risks associated with the energization of systems, which is why we've designed a rigorous certification process to inspect, test and report on your Starline Busway and Critical Power Monitor ("CPM") products. Our certification process proactively identifies and prevents any potential issues before they happen.

To ensure the long-term success of your project, it is crucial to have Starline-certified technicians inspect and validate the installation before full commissioning. Level 2 and 3 commissioning ensures the installation complies with safety requirements and meets factory standards for ongoing reliability.

- Double the length of the standard factory warranty
- Ensure all joint and feed connections are properly installed with continuity testing
- Ensure proper installation of all plug-in units
- Validate that system will perform to your specified requirements
- Full certification report delivered electronically at conclusion of service

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at **downloads.starlinepower.com/services**.



SERVICES

TURNKEY INSTALLATION SERVICES

Our trained and factory certified Busbar installers are looking forward to completing your next job. You can order your best-in-class power distribution system and leave the rest to us. Our technicians will complete your installation quickly and safely and will reduce your overall TCO by extending your product warranty.

PREVENTATIVE MAINTENANCE PLANS AND IR SCANNING

Although Starline busway is expertly designed to require less maintenance, NETA ATS and MTS guidelines recommend conducting annual inspections and health assessments on all critical equipment. Yearly preventative maintenance helps to ensure your system's long-term reliability and safety.

Starline's FLIR-certified technicians will create a custom preventative maintenance plan for your specific needs. Our certified technicians will work to:

- Identify thermal anomalies
- Extend equipment lifecycle
- Ensure optimal system performance
- Improve facility safety and operational sustainability

Upon completing your preventative maintenance plan, you may be eligible to extend your product warranty.

ON-SITE INSTALLATION SUPPORT

Starline's on-site installation service makes installing your busway as quick and easy as possible.

Our installation support starts with scheduling a preliminary trip to the installation site. During the initial visit, our certified technicians will train your installing contractor and develop a thorough installation and commissioning plan.

After completing the training, your installing contractor will have a direct line of communication with our installation experts. Our experts can help answer questions and provide hands-on guidance when needed.

Opting for Starline's installation support helps mitigate the installation risk and reduces the learning curve typically associated with new installations.

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at **downloads.starlinepower.com/services**.



SERVICES

ON-SITE PRODUCT TRAINING

At Starline, we offer comprehensive on-site product training services facilitated by our team of certified technicians. With their extensive expertise and commitment to upholding our high factory standards, you can confidently rely on them to ensure your and your systems' reliability and operational safety.

Our training programs equip your team with the knowledge and skills necessary to operate and maintain your systems effectively. Through hands-on demonstrations and interactive sessions, our certified technicians will guide your staff in understanding the intricate workings of the products and address any questions or concerns your team may have during the training process.

By choosing our on-site product training services, you are investing in your system's and operations' long-term success

RECERTIFICATION AND EXTENDED WARRANTY PLANS

Starline's recertification and extended warranty options provide best-in-class coverage for all of your Starline products and systems. Our extended warranty plans safeguard your investment beyond the standard warranty timeframe, offering you peace-of-mind while our recertification programs help mitigate risk and downtime. Whether the busway has been installed for years or you are relocating to another building, Starline is here to help.

Choose from one of our flexible one to four-year plans or have your system recertified anytime. Contact your Starline rep for more information.

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at **downloads.starlinepower.com/services**.



T2 SERIES

SPECS & INTRODUCTION

SPECS

This specification covers the electrical characteristics and general requirements for a track busway system, hereafter referred to as (Track Busway or busway). The system shall be designed primarily for overhead distribution of electrical power. Supporting designated work areas and equipment. Once installed the busway will provide a simple, versatile, fast and economic means of distributing power. Loads fed from a variety of plug-in units can be easily added or removed without shutting power down to the busway.

Track Busway shall be designed and manufactured to the following standards:

1. Underwriters Laboratories Standard, UL 857 — The common UL, CSA, and ANCE Standard for Busways that is derived from the fifth edition of CSA Standard C22.2 No. 27, the twelfth edition of UL 857, and the second edition of NMX-J-148-1998-ANCE.

*All standards and certifications available upon request

INTRODUCTION

Starline is the leader in electrical power distribution in the mission critical, commercial and light industrial industries with Starline Track Busway. This system was designed to meet the rugged specification of the UL857, Busway and Associated Fittings, with the flexible features of track lighting — and is available in systems with 40, 50 & 60 amps with isolated ground.

It is the simple, versatile, fast and economical solution for supplying power to electrical loads and is unique because the busway can be instantly tapped at any location, with a variety of plug-in units.

The Product Selection Guide was developed to help the design engineer understand and consider all of the options available with Starline Track Busway when designing a system.

This guide is all-inclusive; however, Starline excels at collaborating with design engineers to provide solutions for any application. If you have a need that is not found in this guide, please contact us at **1-800-245-6378** or email us at **info@starlinepower.com**. We will be happy to answer your questions over the telephone or schedule a visit with one of our local representatives.

Also, if viewing this guide in print, please keep in mind that this is a working document. Starline reserves the right to change information and descriptions of listed services and products. The latest version of this guide is available for download at <u>downloads.starlinepower.com</u>.



T2 SYSTEMS

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T2 SERIES

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PENDANT FEED UNITS: PRODUCT NUMBERS	

100T2 SYSTEMS

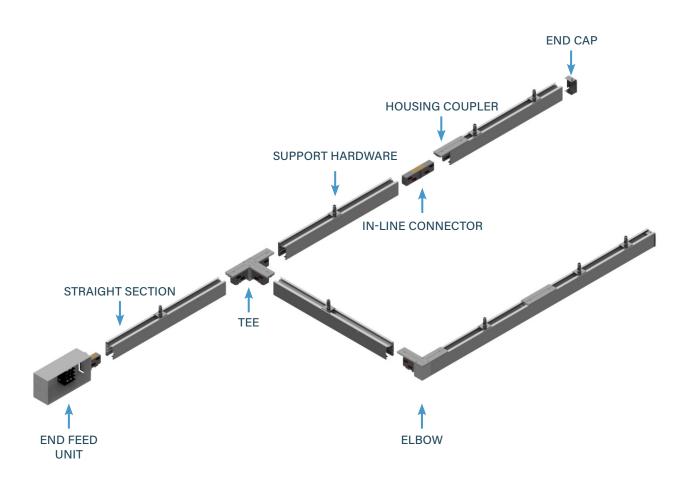
STRAIGHT SECTIONS	
STRAIGHT SECTIONS: PRODUCT NUMBERS	
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BELOW FEED UNITS	
BELOW FEED UNITS: PRODUCT NUMBERS	

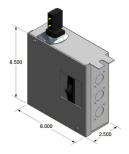
T2 ACCESSORIES

RAL COLORS
ACCESSORIES: SUPPORT HARDWARE
ACCESSORIES: CONNECTION HARDWARE
SERVICES



SYSTEM LAYOUT DRAWING





PLUG-IN UNITS

For further information on applicable T2 plug-in unit options, please consult the factory.

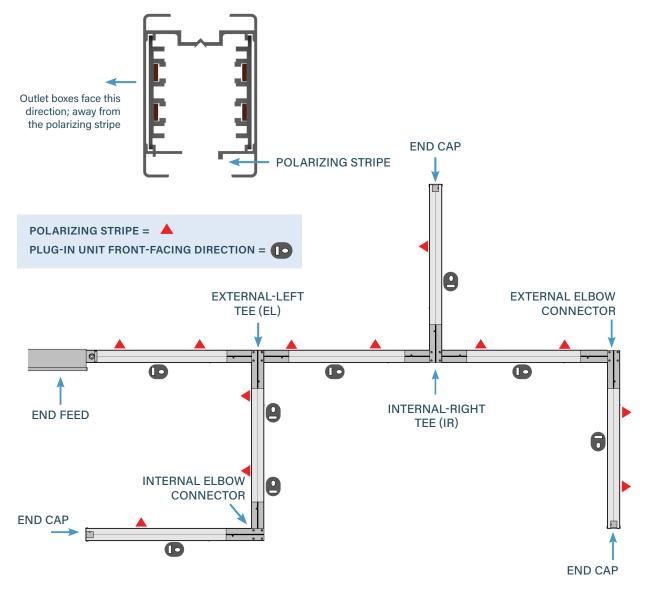


POLARITY TIPS

Starline utilizes a unique polarizing method to prevent mismatched components from being inadvertently connected to each other. The system is designed to prevent cross phasing during installation.

It is particularly important to understand this design concept prior to ordering and/or installing some components.

For example, if the face direction of a Starline plug-in unit is important in your installation consider that they will always face the conductor side.





SYSTEM LAYOUT TIPS

POWER FEEDS

Determine location of power feeds based on relation to power source, existing feeders and voltage drop concerns for longer runs.

SUPPORT HARDWARE

Support hardware is spaced no more than 10 feet apart. Refer to **page 2.43** for support hardware details. Contact your local Starline applications engineer for any questions.

INSTALLATION

Printed installation drawings are supplied with each system shipment and they are also available for download online at <u>downloads.starlinepower.com</u>. CAD files of these drawings are also available by contacting your local Starline applications engineer.

BUSWAY HOUSING SECTIONS

Standard busway lengths are available in 20, 10 and 5-foot increments. Although the factory can cut individual Starline Track Busway sections to any length under 20 feet, it is highly recommended to keep all layout runs in increments of 5 feet to simplify layout and installation. Custom lengths can be made but can increase lead time and make layout and installation a bit more complex.

BUSWAY TEES AND ELBOWS SECTIONS

Try to keep all runs as straight as possible as tees and elbows are added cost. Pay close attention to polarity on the elbows. The polarity will need to match the adjacent busway section(s) to be compatible.

LENGTH OF BUSWAY FOR A ONE VOLT DROP IN LINE TO LINE VOLTAGE:											
SYSTEM DESIGNATION	DISTRIBUTED LOAD	VOLTAGE DROP @ 0.8 PF SINGLE PHASE	VOLTAGE DROP @ 0.8 PF THREE PHASE								
60T2 (standard)	60 amps	29 ft	51 ft								
100T2 (standard)	100 amps	42 ft	72 ft								



COMPONENT RELATIONSHIP TIPS

When ordering material, it is important to understand the relationship between various components.

EXAMPLES

- No need to add extra Joint Kits for Elbows, Tees, or Crosses, as they are already part of your housing count.
- If using an Above Feed, order a Joint Kit for each Feed.

GENERAL SUPPORT HARDWARE RULE TO FOLLOW:

10 feet maximum spacing between supports and we recommend 10% more than the required quantity to cover potential layout changes.

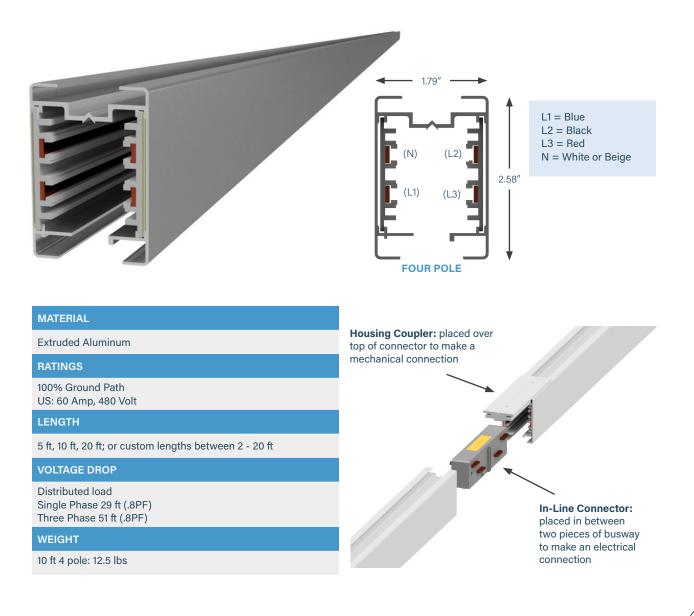
- Total Power Feeds and End Caps can be determined by counting the total number of unconnected runs.
- Before specifying or ordering elbow or tee connectors, it is important to understand polarity and the relationship to direction of outlets. Please refer to **page 2.3 Polarity Tips** for more detail.



STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight sections consist of an extruded aluminum shell with insulated copper conductor strips mounted on the two opposite interior side walls. The aluminum housing acts as a 100% ground path and each straight has an open access slot over its entire length for the insertion of turn-n-lock plug-in units. The housing configuration is 4 pole in a 480V design. Track Busway housing is connected together using in-line connectors and housing couplers (found under Accessories).



		SECTI NUMB									
	U	S	060	T2	С	4	S	- 0200	С		
	1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material - STD 10. Paint Col		7. Polarization	8. Straight	9. Busway		
1. System	(standard of	measure)			9	. Busway Ac	cess (how plug	s access the bu	sway)		
U US					C	Continuc	ous				
2. Product	t Type (sect	tion componer	nt)		1	0. Paint Colo	r (allows paintin	g of the busway	housing)		
S Straig	ght Section	1				STD0 Factory Mill Finish RED0 Paint Factory Red					
3. Product	t Frame (ma	aximum ampe	rage)			BLKO Paint Factory Black BLUO Paint Factory Blue **RAL (please see page 2.4.					
060 60 ar	nps						,		, ,		
4. Compat	tibility (fram	ne compatibilit	ty)								
T2 T2 Sy	ystem										
5. Materia	l (busbar ma	aterial)									
C Copp	ber										
6. Neutral	/Ground B	Susbar (size c	of neutral busba	ar and/or ground	d)						
4 3 Pha	ase plus Ne	eutral									
7. Polariza	ition (orienta	ation of section	n for mating pu	rposes)							
S Stand	dard										
8. Straight	t Length (le	ength of sectio	n)								
XXYY XX	=feet, YY=i	inches									

EXAMPLES

US060T2C4S-1000C-STD0 = US System, Straight Section, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 10 foot Straight Length, Continuous Busway Access, Factory Mill Finish

<u>US060T2C4S-0500C-P010</u> = US System, Straight Section, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 5 foot Straight Length, Continuous Busway Access, Painted RAL 1001



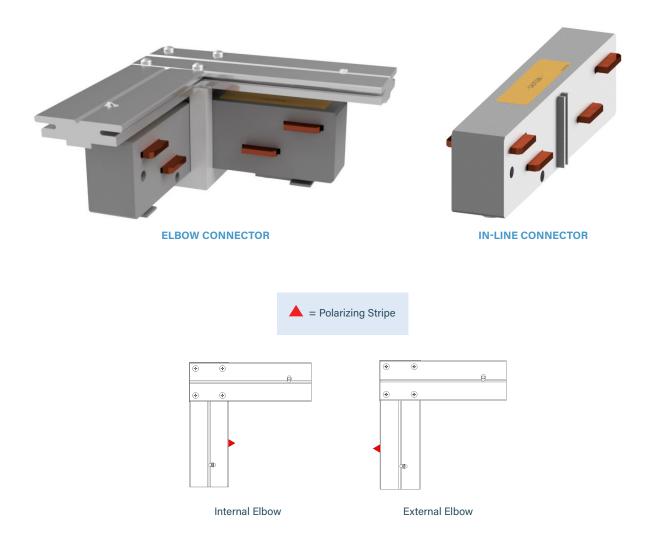
ELBOW SECTIONS

PRODUCT DESCRIPTION

Elbow connectors are used for making a 90 degree turn in a 60 amp busway run. Please be aware of polarization issues before making your final selection (refer to **page 2.3 Polarity Tips**).

Elbows are electrically connected to sections of 60 amp busway by means of an in-line connector. The connector is installed by inserting in each end of the housing sections to be joined. Hex head compression screws are tightened to make a reliable connection. All in-line connectors are polarized to prevent phase mismatch.

Weight .5 lbs



ELBOW SECTIONS: PRODUCT NUMBERS U Ε 060 **T**2 С 4 S IN 3. 6. 2. 4. 5. 7. 8. 1. System Turning Product Product Compatibility Material Neutral/ Polarization Frame Ground Direction Туре Busbar - STD0 9. Paint Color 1 System (standard of 9 Turning Direction (dir Joriziu

1. System (standard of measure)	8. Turning Direction (direction of section polarizing stripe)
U US	IN Internal EX External
2. Product Type (section component)	9. Paint Color (allows painting of the busway housing)
E Elbow Section	STD0 Factory Mill Finish RED0 Paint Factory Red
3. Product Frame (maximum amperage)	BLKO Paint Factory Black BLUO Paint Factory Blue **RAL (please see page 2.42)
060 60 amps	
4. Compatibility (frame compatibility)	
T2 T2 System	
5. Material (busbar material)	
C Copper	
6. Neutral/Ground Busbar (size of neutral busbar and/or ground)	
4 3 Phase plus Neutral	
7. Polarization (orientation of section for mating purposes)	
S Standard	

EXAMPLES

UE060T2C4S-IN-BLK0 = US System, Elbow Section, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Painted Factory Black

UE060T2C4S-EX-STD0 = US System, Elbow Section, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, External Turning Direction, Factory Mill Finish



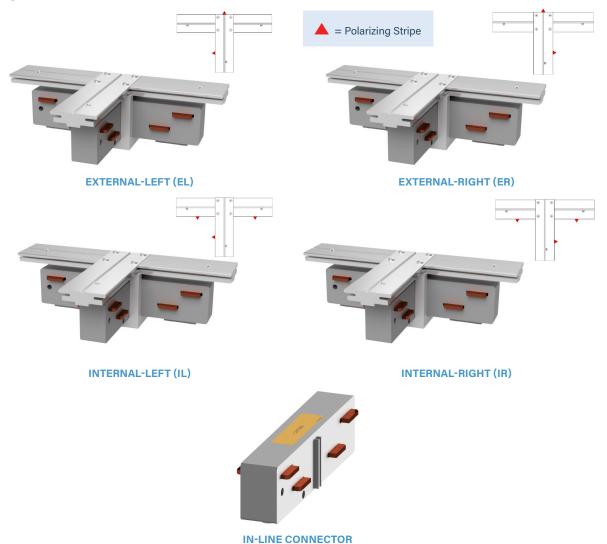
TEE SECTIONS

PRODUCT DESCRIPTION

Similar to elbow connectors, tee connectors are used for connecting branch housing sections at 90 degrees to the main run. Please be aware of polarization issues before making your final selection (refer to **page 2.3 Polarity Tips**).

Tees are electrically connected to sections of 60 amp busway by means of an in-line connector. The connector is installed by inserting in each end of the housing sections to be joined. Hex head compression screws are tightened to make a reliable connection. All in-line connectors are polarized to prevent phase mismatch.

Weight 1 lb



TEE SECTIONS: PRODUCT NUMBERS

		_								
	U	Т	060	T2	С	4	S	-	IR	
	1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarizatior		ing ction	
				- S	TD0					
				9. Pain	t Color					
1. System (sta	andard of measure	ure)				a Direction	(direction of s	ection po	larizina stri	
U US					IL Inte	ernal-Left	i (un conor or o	EL Ex	ternal-Left	t
2. Product Ty	/pe (section co	mponent)			IR Inte	ernal-Right		ER Ex	ternal-Rigl	nt
T Tee Sec					9. Paint Color (allows painting of the busway housing)					
3. Product Fr 060 60 amps		m amperage)			BLK0 P	actory Mill F aint Factory aint Factory	Black B	LUO Pai	nt Factory nt Factory ease see pa	/ Blue
4. Compatibi		npatibility)								
T2 T2 Syste		·								
5. Material (b	usbar material))								
C Copper										
6. Neutral/G	round Busba	r (size of neutr	ral busbar and,	/or ground)						
	plus Neutral	•		<u> </u>						
7. Polarizatio	n (orientation c	of section for m	ating purposes	 5)						
S Standar			Reversed	- -						

EXAMPLES

<u>UT060T2C4S-IR-RED0</u> = US System, Tee Section, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Red

<u>UT060T2C4S-EL-STD0</u> = US System, Tee Section, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, External-Left Turning Direction, Factory Mill Finish

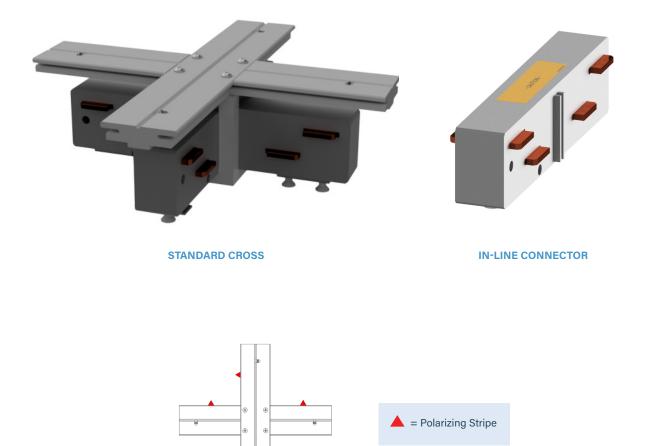


CROSS SECTIONS

PRODUCT DESCRIPTION

Similar to tee connectors, crosses are typically used for grid designs. Please be aware of polarization issues before making your final selection (**refer to page 2.3 Polarity Tips**).

Crosses are electrically connected to sections of 60 amp busway by means of an in-line connector. The connector is installed by inserting in each end of the housing sections to be joined. Hex head compression screws are tightened to make a reliable connection. All in-line connectors are polarized to prevent phase mismatch.



CROSS SECTIONS: PRODUCT NUMBERS U Х 060 **T**2 С S ST 4 2. 3. 6. 8. 4. 5. 7. 1. Compatibility Material System Product Product Neutral/ Polarization Turning Ground Туре Frame Direction Busbar - STD0 9. Paint Color 1. System (standard of measure) 8. Turning Direction (direction of section polarizing stripe) U US ST Standard 2. Product Type (section component) 9. Paint Color (allows painting of the busway housing) Х **Cross Section STD0** Factory Mill Finish **REDO** Paint Factory Red BLKO Paint Factory Black BLUO Paint Factory Blue 3. Product Frame (maximum amperage) WHTO Paint Factory White ****RAL** (please see page 2.42) 060 60 amps 4. Compatibility (frame compatibility) T2 T2 System

5. Material (busbar material)

C Copper

6. Neutral/Ground Busbar (size of neutral busbar and/or ground)

4 3 Phase plus Neutral

- 7. Polarization (orientation of section for mating purposes)
- S Standard

EXAMPLES

<u>UX060T2C4S-ST-RED0</u> = US System, Cross Section, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Turning Direction, Painted Factory Red

<u>UX060T2C4S-ST-STD0</u> = US System, Cross Section, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Turning Direction, Factory Mill Finish



END FEED UNITS

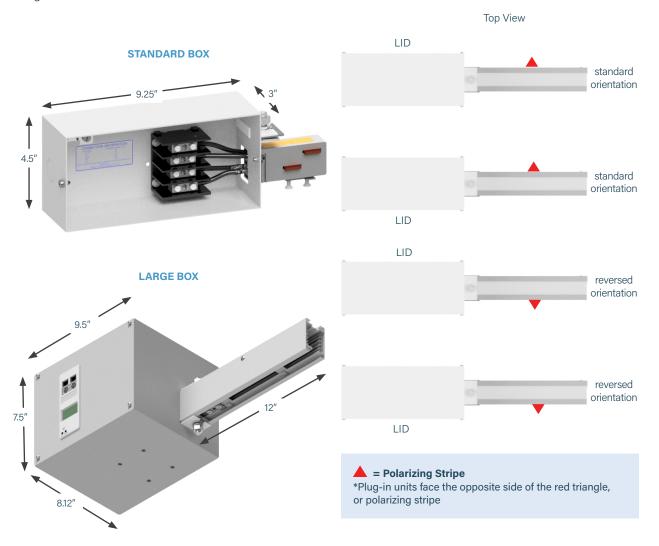
PRODUCT DESCRIPTION

With a built-in connector, the end feed units for 60T2 systems consist of a steel junction box with removable side, a terminal block for field connections and an in-line connector already terminated to one side of the terminal block.

The unit is inserted into the busway and held in position via a bolted connection to the busway.

Weight

Standard box: 3.5 lbs Large box: 12 lbs





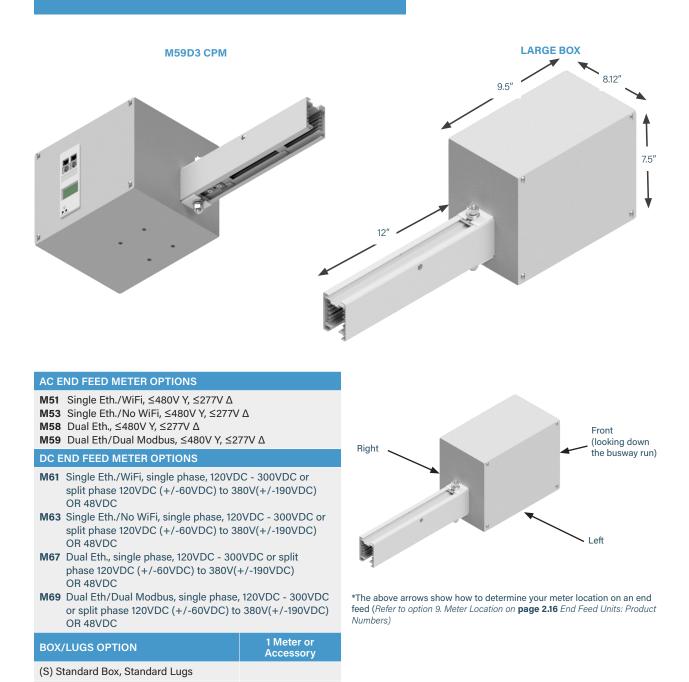
(L) Large Box, Standard Lugs

accessory location for Large box.

*Large box with one meter or accessory is 8.12" deep. A meter and accessory cannot be on the same lid. Consult factory to determine

Meters and accessories are not available on Standard box.

END FEED UNITS: METERING



Х



END FEED UNITS: PRODUCT NUMBERS

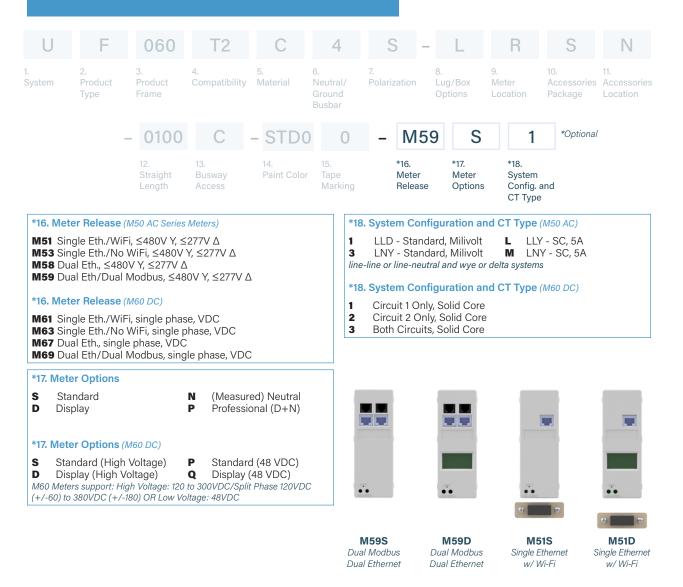
U	F	060	T2	С	4	S	-	L	R	S	Ν			
1. System	n Product Product Compatibility Material N Type Frame G				6. Neutral/ Ground Busbar	7. Polarizatior		.ug/Box 0ptions	9. 10. 11. Meter Accessories Accessor Location Package Location					
		- 0100	С	- STD	0 0	- N	159	S	1	*Optiona				
		12. Straight Length	13. Busway Access	14. Paint Colo	15. r Tape Marking	*16. Mete Rele		*17. Meter Options	*18. System Config. : CT Type					
U US		of measure) ction componen	.*)		S	Accessorie Standard ccessories not	l		N No	ries for feed u ne (N/A)	nits)			
	d Feed	ction componer.	nt)		11. N	Accessorie None (N		ation (fron	n the terminal,	side with acc	cessory)			
3. Produ 60 60		maximum ampei	rage)		*C	onsult factory	for La	•		8				
4. Comp		me compatibilit	y)			. Straight Le 00 1 ft. (For				actory)				
5. Mate	rial (busbar m	naterial)			13 C	Busway Ac		(for large b	ox only)					
	r <mark>al/Ground</mark> Phase plus N	Busbar (size o leutral	f neutral busba	r and/or groun	a) S	. Paint Colo DO Factory KO Paint F	/ Mill I	Finish	RED0 Pair	r housing) nt Factory R nt Factory B				
	zation (orien Indard	tation of sectior	n for mating put R Reverse			HTO Paint F . Tape Mark				ase see page of busway ho				
8. Lug/I	Box Options	s (standard/dou	ble/bolt lugs ar	nd box size)	0	No Tape	Marki	ng						
S Sta	indard lugs, S	Standard box	L Standar	rd lugs, Large	e box									
		from the termina rientation on lar		novable lid;										
R Rig N No	iht ne (N/A)		L Left											

EXAMPLE

UF60T2C4S-LNSN-0100C-STD0 = US System, End Feed, 60 Amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Lugs, Large Box, No Meter Location, Standard Accessory Package, No Accessory Location - 1 ft. Straight Length, Continuous - Factory Mill Finish, No Tape Marking



END FEED UNITS: PRODUCT NUMBERS



EXAMPLE

<u>UF60T2C4S-LRSN-0100C-STD0-M59D3</u> = US System, End Feed, 60 Amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Lugs, Large Box, Right Meter Location, Standard Accessory Package, No Accessory Location - 1 ft. Straight Length, Continuous - Factory Mill Finish, No Tape Marking - M59 Meter, with Display, LLD - Standard Milivolt



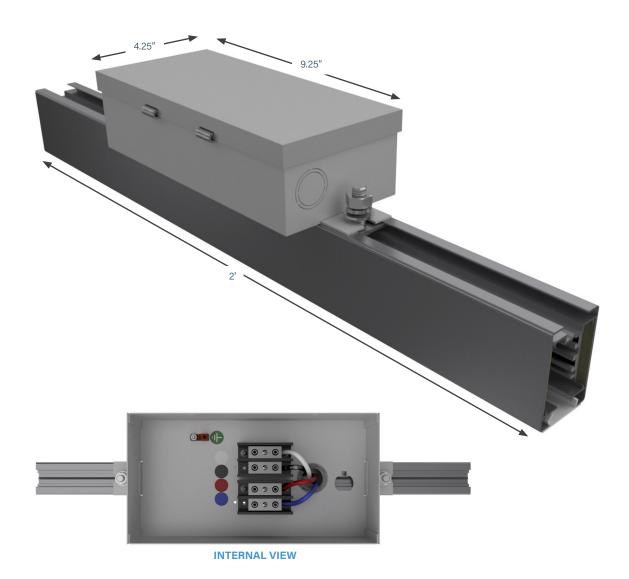
ABOVE FEED UNITS

PRODUCT DESCRIPTION

The above feed unit is used for supplying power anywhere along the top of a busway run. It consists of a twofoot section of busway, and a junction box with a 60A rated terminal block.

Two in-line connectors and housing couplers (supplied separately) are used to connect two adjacent busway sections.

Weight 2 - 5 lbs





ABOVE FEED UNITS: PRODUCT NUMBERS

U	А	060	T2	С	4	S	-	S	Ν	S	Ν
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarizatior	۱	8. Lug/Box Options	9. Lid Orientation	10. Accessories Package	11. Accessories Location
			- 02	200	C 0	12 -	ST	D0			
			12. Strai Leng	0	14. Isway Feed Iscess Loca	l F	5. Paint	Color			
1. Syster U US	n (standard of	f measure)			10. S	Accessorie Standard		ackage (opt	ional accessor	ries for feed ur	nits)
2. Produ		tion componer	nt)				s Lo	ocation (from	n the terminal,	side with acc	essory)
3. Produ 060 60		aximum ampe	rage)			Straight Le 00 2 feet	engt	h (length of s	section)		
1 1	atibility (fran System	ne compatibili	ty)		13. C	Busway Ac Continuo		s (how plugs	access the bu	isway)	
5. Mater	ial (busbar m	aterial)			14.	Feed Loca	tion	(location of t	he center of th	ne top feed)	

012 12 inches

STD0 Factory Mill Finish

BLKO Paint Factory Black

WHTO Paint Factory White

15. Paint Color (allows painting of the busway housing)

EXAMPLE

С

4

S

S

Ν

Copper

Standard

None (N/A)

3 Phase plus Neutral

Standard lugs, Standard box

6. Neutral/Ground Busbar (size of neutral busbar and/or ground)

R

Reversed

7. Polarization (orientation of section for mating purposes)

8. Lug/Box Options (standard/double/bolt lugs and box size)

9. Lid Orientation (from the terminal, side with removable lid)

UA060T2C4S-SNSN-0200C012-BLK0 = US System, Above Feed, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Lugs, Standard Box, No Lid Orientation, Standard Accessory Package, No Accessory Location, 2 foot Straight Length, Continuous Access, 12 inch Feed Location, Painted Factory Black

REDO Paint Factory Red

BLUO Paint Factory Blue

**RAL (please see page 2.42)



END FEED CONNECTOR UNITS

PRODUCT DESCRIPTION

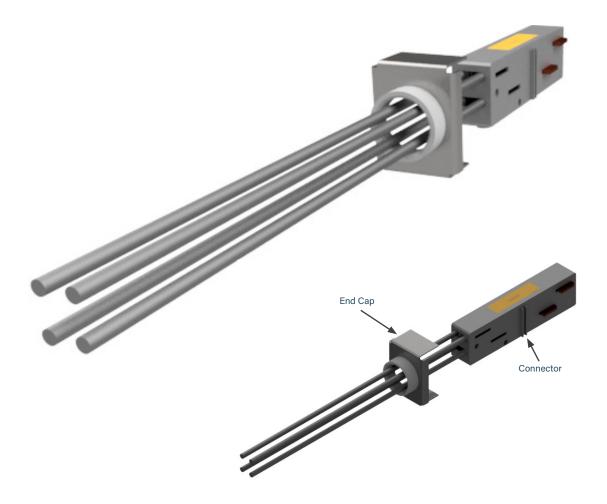
This design of power feed has a built-in connector and is used primarily in applications where aesthetic appearance is important — such as retail.

Wire leads are preassembled to the connector and eliminate the junction box on the busway.

24 in wire length is standard, but additional lengths are available upon request.

End Feed Connector units are shipped with an installation tool specifically designed to move the housing clip to desired location to allow for proper fit. See Installation Instructions for more details.

Weight 2 lbs



END FEED CONDUCTOR UNITS: PRODUCT NUMBERS

		U	С	060	T2	С	4	S	-	024
		1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	I	8. Wire Length
1. S	ystem (stand	ard of measur	re)			8. Wire L	.ength (total le	ength of wire	in in	ches)
U	US					ZZZ ZZZ	Z = inches (02	24 is standar	d)	
2. P	roduct Type	e (section com	nponent)							
С	Concealed	l Feed								
3. P	roduct Fran	ne (maximum	amperage)							
	60 amps									
4. C	ompatibility	(frame comp	oatibility)							
T 2	T2 System									
5. N	laterial (busk	bar material)								
C	Copper									
6. N	leutral/Grou	und Busbar	(size of neut	ral busbar and,	/or ground)					
4	3 Phase plu			1 Phase plus						
7. P	olarization (orientation of	section for m	ating purposes	5)					
S	Standard		R	Reversed						

EXAMPLE

UC060T2C4S-024 = US System, Concealed Feed, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 24 inch Wire Length

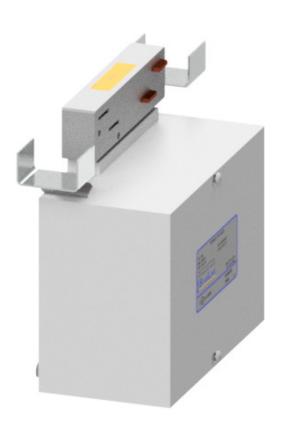


BELOW FEED UNITS

PRODUCT DESCRIPTION

A Below Power Feed is designed to be installed anywhere along the full-access opening of a busway run. Insert the Power Feed connector into the busway run where desired and secure with a hanger bolt (supplied). The Below Power Feed unit must be completely installed in the selected busway housing before the adjacent housing section can be installed. A terminal block is provided in the box for field terminations. Power supply cable is fed in from under the unit.

Weight 4.8 lbs





		ED UN NUMB											
U	В	060	T2	С	4	S	-	S	R	S	Ν		
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	I	8. Lug/Box Options	9. Lid Orientation		11. Accessories Location		
1. Syster U US	m (standard o	f measure)			- STD 12. Paint Cold 9. 1 R	r	ion	(from the te	rminal, side wit	h removable li	id)		
2. Produ	Ict Type (see	ction componer	nt)		10.	-	s Pa	ackage (op	tional accesso	ries for feed u	nits)		
	low Feed				S	S Standard 11. Accessories Location (from the terminal, side with accessory)							
3. Produ 060 60		naximum ampe	rage)		11. N	Accessorie: None (N/		cation (fro	m the terminal	side with acc	essory)		
4. Comp	atibility (fra	me compatibilit	ty)		12.	Paint Color	r (allo	ows painting	of the busway	housing)			
5. Mater	System r ial (<i>busbar m</i> pper	aterial)			BL	DO Paint Fa KO Paint Fa ITO Paint Fa	acto	ry Black	BLUO Pair	nt Factory Re nt Factory Bl pase see page 2	ue		
	r <mark>al/Ground</mark> I hase plus N		f neutral busbar	and/or grou	nd)								
	<mark>zation</mark> (orien	tation of section	n for mating purp R Reversed										
		(<i>standard/dou</i> Standard box	ble/bolt lugs and	d box size)									

EXAMPLE

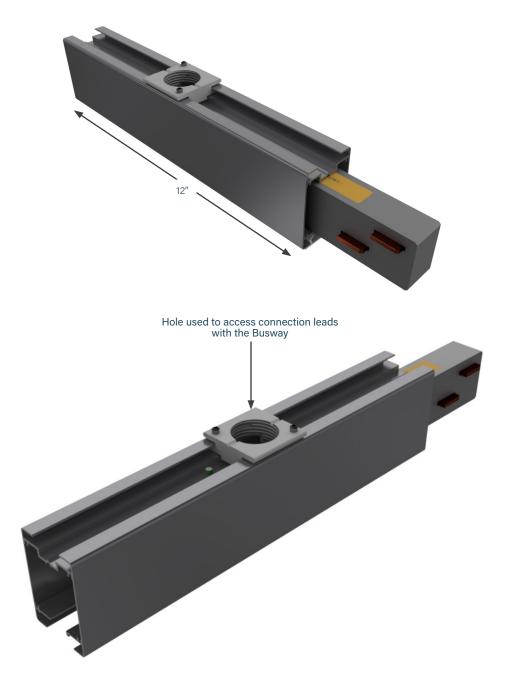
<u>UB060T2C4S-SRSN-STD0</u> = US System, Below Feed, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Lugs, Standard Box, Right Lid Orientation, Standard Accessory Package, No Accessory Location, Galvanized



PENDANT FEED UNITS

PRODUCT DESCRIPTION

A Pendant Feed consists of a 1 foot busway section with a 1 inch conduit size access hole for access to connection leads inside the Busway. A 1 inch conduit mounting adapter is included.



PENDAN PRODUC										
	U	Р	060	T2	С	4	S	S		
1. System (stand U US			3. Product Frame	4. Compatibility – ST 9. Paint	Color *8. System	ne to Line	7. Polarization	utral System) N Line to I		
2. Product Type P Pendant F	eed				(reference option 6. Neutral/Ground Busbar) 9. Paint Color (allows painting of the busway housing)					
 3. Product Fran 060 60 amps 4. Compatibility 					BLKO Pai	ctory Mill Fin nt Factory B int Factory V	lack BL	DO Paint Fac UO Paint Fac RAL (please so	ctory Blue	
T2 T2 System										
5. Material (busk C Copper	bar material)									
6. Neutral/Grou4 3 Phase place		(size of neutra	al busbar and/o	or ground)						
7. Polarization (S Standard	orientation of		ating purposes Reversed)						

EXAMPLES

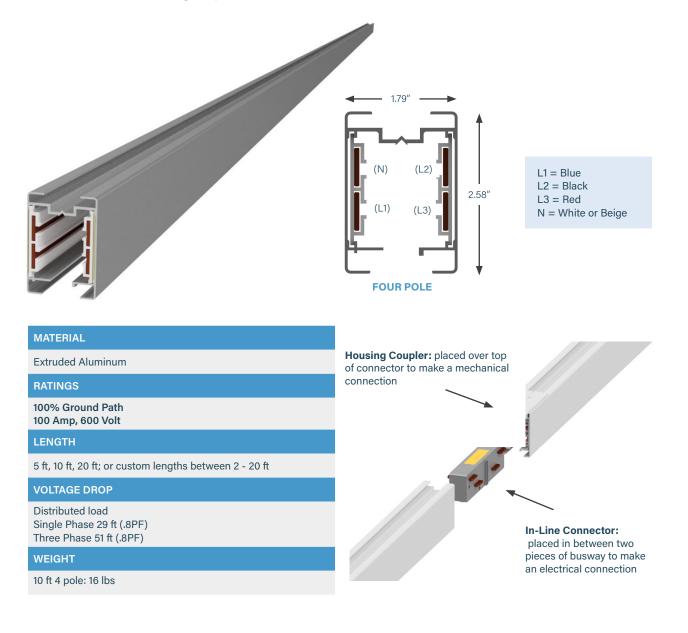
<u>UP060T2C4R-PD60</u> = US System, Pendant Feed, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Painted RAL 3036 <u>UP060T2C4S-STD0</u> = US System, Pendant Feed, 60 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Factory Mill Finish



STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight sections consist of an extruded aluminum shell with insulated copper conductor strips mounted on the two opposite interior side walls. The aluminum extrusion acts as a 100% ground path and each straight has an open access slot over its entire length for the insertion of turn-n-lock plug-in units. The housing configuration is 4 pole in a 600 Volt design. Track Busway straights are connected together using in-line connectors and housing couplers (found under Accessories).



		SECT								
	U	S	100	T2	С	4	S	_	0200	С
	1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material - STC 10. Paint Co		7. Polarization		8. Straight	9. Busway
1. System U US	ו (standard o	f measure)			9 C		cess (how plu us	gs ac	cess the busy	vay)
S Stra	hight Section	n n naximum amp			S	TDO Factor LKO Paint F	r (allows painta y Mill Finish factory Black factory White		f the busway h REDO Paint BLUO Paint **RAL (plea	Factory Re Factory Blu
	atibility (frar System	me compatibi	lity)							
5. Materi C Cop	al (<i>busbar m</i>	aterial)								
	al/Ground E nase plus Ne		of neutral bus	bar and/or grour	nd)					
	a <mark>tion</mark> (orient	tation of section	on for mating µ	ourposes)						
	h t Length (/ X=feet, YY=	<i>length of secti</i> inches	ion)							

EXAMPLES

<u>US100T2C4S-0206C-STD0</u> = US System, Straight Section, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 2 foot 6 inch Straight Length, Continuous Busway Access, Factory Mill Finish

US100T2C4S-0500C-P010 = US System, Straight Section, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 5 foot Straight Length, Continuous Busway Access, Painted RAL 1001



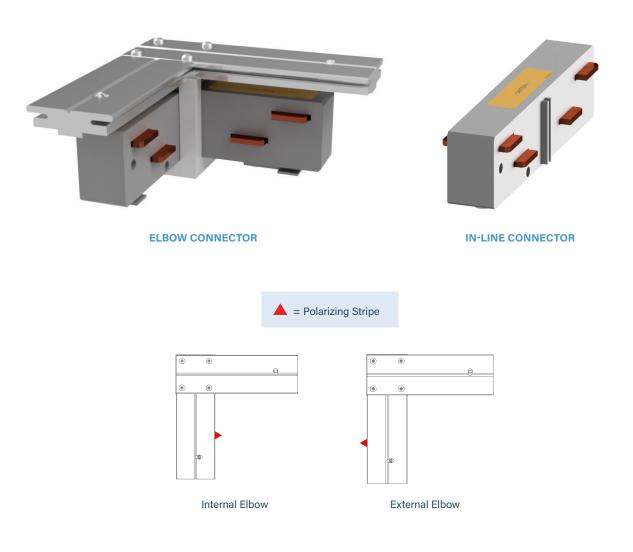
ELBOW SECTIONS

PRODUCT DESCRIPTION

Elbow connectors are used for making a 90 degree turn in a 100 amp compact busway run. Please be aware of polarization issues before making your final selection (refer to **page 2.3 Polarity Tips**).

Elbows are electrically connected to sections of 100 amp busway by means of an in-line connector. The connector is installed by inserting in each end of the housing sections to be joined. Hex head compression screws are tightened to make a reliable connection. All in-line connectors are polarized to prevent phase mismatch.

Weight .5 lbs



ELBOW SECTIONS: PRODUCT NUMBERS U E 100 **T**2 С S IN 4 2. 3. 8. 1. 4. 5 6. 7. Product Compatibility Material System Product Neutral/ Polarization Turning Frame Туре Ground Direction Busbar - STD0 9. Paint Color 1. System (standard of measure) 8. Turning Direction (direction of section polarizing stripe) U US IN Internal **EX** External 9. Paint Color (allows painting of the busway housing) 2. Product Type (section component) E **Elbow Section STD0** Factory Mill Finish **REDO** Paint Factory Red BLKO Paint Factory Black **BLUO** Paint Factory Blue 3. Product Frame (maximum amperage) WHTO Paint Factory White **RAL (please see page 2.42) 100 100 amps 4. Compatibility (frame compatibility) T2 T2 System 5. Material (busbar material)

C Copper

6. Neutral/Ground Busbar (size of neutral busbar and/or ground)

- 4 3 Phase plus Neutral
- 7. Polarization (orientation of section for mating purposes)
- S Standard

EXAMPLES

<u>UE100T2C4S-IN-BLK0</u> = US System, Elbow Section, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Painted Factory Black

UE100T2C4S-EX-STD0 = US System, Elbow Section, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, External Turning Direction, Factory Mill Finish



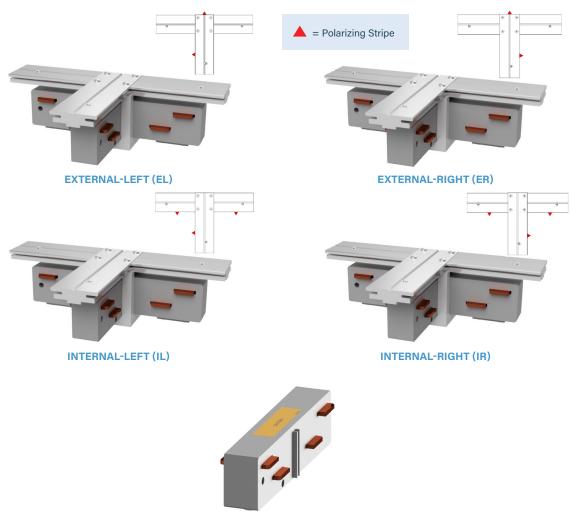
TEE SECTIONS

PRODUCT DESCRIPTION

Similar to elbow connectors, tee connectors are used for connecting branch housing sections at 90 degrees to the main run. Please be aware of polarization issues before making your final selection (refer to **page 2.3 Polarity Tips**).

Tees are electrically connected to sections of 100 amp busway by means of an in-line connector. The connector is installed by inserting in each end of the housing sections to be joined. Hex head compression screws are tightened to make a reliable connection. All in-line connectors are polarized to prevent phase mismatch.

Weight 1 lb



IN-LINE CONNECTOR

TEE SECTIONS: PRODUCT NUMBERS

	U	т	100	T2	С	4	S	1.	IR	
	•	1			•		Ū.			
	1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarizatio	ı	8. Turning Direction	
				- S	TD0					
				9. Pa	int Color					
1. System (sta	ndard of meas	sure)			8. Turni	ng Directior	ו (direction of	section	n polarizing s	stripe)
U US						ernal-Left ernal-Right		EL ER	External-L External-F	
2. Product Ty		omponent)				Color (allows	o pointing of t			0
T Tee Sect	tion					Factory Mill F			Paint Facto	
3. Product Fra 100 100 amp		ım amperage)			BLK0	Paint Factory	/ Black I	BLUO	Paint Facto	ory Blue
		non otik ilitur)]				u	1.0
4. CompatibilT2 T2 System		працопцу)								
5. Material (b)		0]					
C Copper	usbar material	9								
6. Neutral/Gr	round Bush	ar (size of neu	tral hushar an	d/or ground)]					
	plus Neutral		aa busbar an	a, or ground)						
7. Polarizatio			nating purpos	es)	1					
S Standard		R	Reversed	·						

EXAMPLES

UT100T2C4S-IR-RED0 = US System, Tee Section, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Red

<u>UT100T2C4S-EL-STD0</u> = US System, Tee Section, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, External-Left Turning Direction, Factory Mill Finish



CROSS SECTIONS

PRODUCT DESCRIPTION

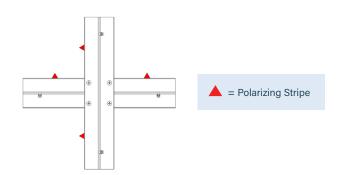
Similar to tee connectors, crosses are typically used for grid designs. Please be aware of polarization issues before making your final selection (**refer to page 2.3 Polarity Tips**).

Crosses are electrically connected to sections of 100 amp busway by means of an in-line connector. The connector is installed by inserting in each end of the housing sections to be joined. Hex head compression screws are tightened to make a reliable connection. All in-line connectors are polarized to prevent phase mismatch.



STANDARD CROSS





CROSS PRODU			S								
	U	Х	100	T2	С	4	S	- ST			
	1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	8. Turning Direction			
				- S	TD0						
				9. Pa	int Color						
1. System (stan	dard of meas	ure)				ng Direction	(direction of	section polarizing	ı stripe)		
2. Product Typ	De (section co	omponent)			9. Paint Color (allows painting of the busway housing)						
X Cross Se	ction				STD0 Factory Mill Finish RED0 Paint Factory Red						
3. Product Fra	ame (maximu	m amperage)				Paint Factory Paint Factory		BLUO Paint Fac *RAL (please se			
100 100 amps	6										
4. Compatibili	ty (frame con	npatibility)									
T2 T2 System	m										
5. Material (bu	sbar material,)									
C Copper											
6. Neutral/Gro		Ir (size of neut	ral busbar and	d/or ground)							
4 3 Phase p	olus Neutral										
7. Polarization	(orientation o	of section for n	nating purpose	es)							

S Standard

EXAMPLES

UX100T2C4S-ST-RED0 = US System, Cross Section, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Turning Direction, Painted Factory Red

UX100T2C4S-ST-STD0 = US System, Cross Section, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Turning Direction, Factory Mill Finish

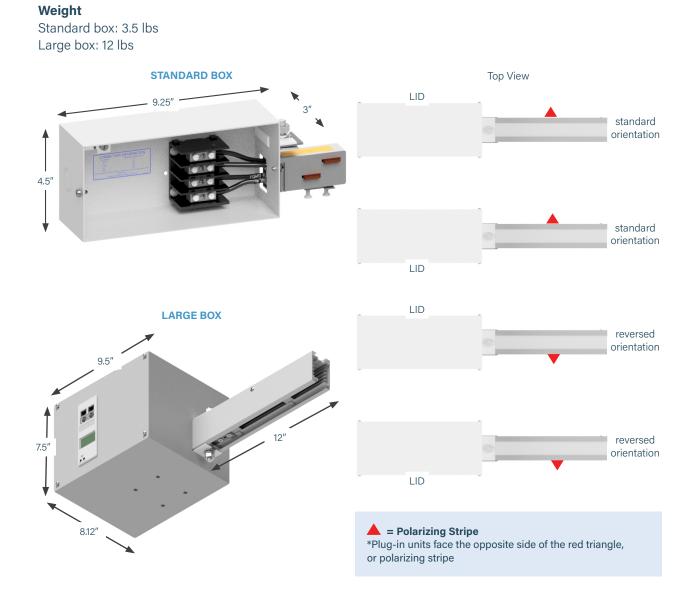


END FEED UNITS

PRODUCT DESCRIPTION

With a built-in connector, the end feed units for 60T2 systems consist of a steel junction box with removable side, a terminal block for field connections and an in-line connector already terminated to one side of the terminal block.

The unit is inserted into the busway and held in position via a bolted connection to the busway.





END FEED UNITS: METERING

M59D3 CPM

9.5" 9.5" 12"

AC END FEED METER OPTIONS

- **M51** Single Eth./WiFi, \leq 480V Y, \leq 277V Δ
- **M53** Single Eth./No WiFi, \leq 480V Y, \leq 277V Δ
- **M58** Dual Eth., ≤480V Y, ≤277V ∆
- M59 Dual Eth/Dual Modbus, \leq 480V Y, \leq 277V Δ

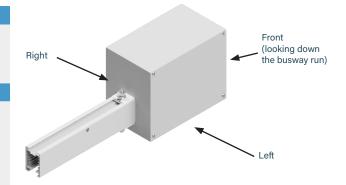
DC END FEED METER OPTIONS

- M61 Single Eth./WiFi, single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M63 Single Eth./No WiFi, single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M67 Dual Eth., single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M69 Dual Eth/Dual Modbus, single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

BOX/LUGS OPTION	1 Meter or Accessory
(S) Standard Box, Standard Lugs	
(L) Large Box, Standard Lugs	Х

*Large box with one meter or accessory is 8.12" deep. A meter and accessory cannot be on the same lid. Consult factory to determine accessory location for Large box.

Meters and accessories are not available on Standard box.



*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 2.36** End Feed Units: Product Numbers)



END FEED UNITS: PRODUCT NUMBERS

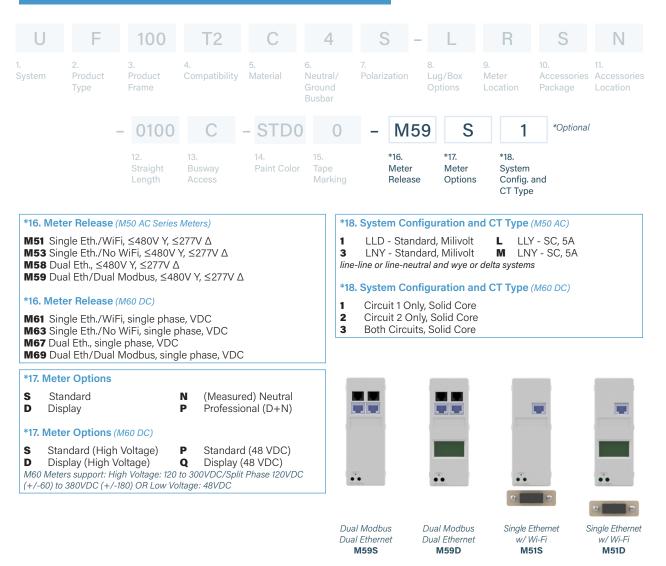
U	F	100	T2	С	4	S	-	L	R	S	Ν	
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarizati	on	8. Lug/Box Options	9. Meter Location	10. Accessories Package	11. Accessories Location	
		- 0100	С	- STD	0 0	- [V 5	9 S	1	*Optiona		
		12. Straight Length	13. Busway Access	14. Paint Colo	15. r Tape Marking		ð. eter lease	*17. Meter Options	*18. System Config. CT Type			
U US		f measure)	.+)		5	Standa	rd	ackage (opt ilable on stan	N No	ries for feed u ne (N/A)	nits)	
F En	d Feed	naximum ampei				ptions)		ocation (con	sult factory fo	r Large box ac	cessory	
100 100 amps 4. Compatibility (frame compatibility)					12. Straight Length (for large box only) 0100 1 ft. (For other lengths, consult the factory) 13. Busway Access (for large box only) C Continuous							
T2 T2 System 5. Material (busbar material) C Copper												C
 6. Neutral/Ground Busbar (size of neutral busbar and/or ground) 4 3 Phase plus Neutral 					d) E	14. Paint Color (allows painting of the busway housing) STD0 Factory Mill Finish RED0 Paint Factory Red BLK0 Paint Factory Black BLU0 Paint Factory Blue wHT0 Paint Factory White **RAL (please see page 2.42)						
7. Polarization (orientation of section for mating purposes) S S Standard R Reversed				1	15. Tape Marking (colored tape on both sides of busway housing) 0 No Tape Marking							
	1.1	s (<i>standard/dou</i> Standard box		nd box size) rd lugs, Large								
		rom the termina rientation on lar		novable lid;								
R Rig N No	iht ne (N/A)		L Left									

EXAMPLE

UF100T2C4S-LNSN-0100C-STD0 = US System, End Feed, 100 Amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Lugs, Large Box, No Meter Location, Standard Accessory Package, No Accessory Location - 1 ft. Straight Length, Continuous - Factory Mill Finish, No Tape Marking



END FEED METERING: PRODUCT NUMBERS



EXAMPLE

UF100T2C4S-LRSN-0100C-STD0-M59D3 = US System, End Feed, 100 Amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Lugs, Large Box, Right Meter Location, Standard Accessory Package, No Accessory Location - 1 ft. Straight Length, Continuous - Factory Mill Finish, No Tape Marking - M59 Meter, with Display, LLD - Standard Milivolt



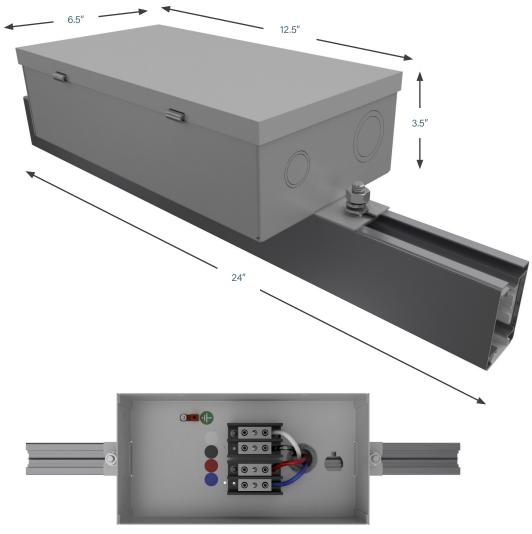
ABOVE FEED UNITS

PRODUCT DESCRIPTION

The above feed unit is used for supplying power anywhere along the top of a busway run. It consists of a two-foot section of busway, and a junction box with a 100 amp rated terminal block.

Two in-line connectors and housing couplers (supplied separately) are used to connect two adjacent busway sections.

Weight 5 lb



INTERNAL VIEW

ABOVE FEED UNITS: PRODUCT NUMBERS

U	А	100	T2	С	4	S	-	S	Ν	S	Ν
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarizatio		3. _ug/Box Options	9. Lid Orientation	10. Accessories Package	11. Accessories Location
			- 02	200	C ()12 –	STI	D0			
			12. Stra Len	0	14. sway Fee cess Loc	d ation	15. Paint C	Color			
1. Syste	m (standard o	f measure)			10	. Accessori	es Pa	ckage (op	tional accesso	ries for feed u	nits)
U US	6				S	Standar	d				
2. Prod	uct Type (see	ction compone	nt)		11.	11. Accessories Location (from the terminal, side with accessory)					
A Ak	ove Feed				N	N None (N/A)					
3. Product Frame (maximum amperage)						12. Straight Length (length of section)					
100 100 amps						0200 2 feet					
4. Compatibility (frame compatibility)						13. Busway Access (how plugs access the busway)					
T2 T2	System				C	Continue	ous				
5. Mate	rial (busbar m	aterial)			14	14. Feed Location (location of the center of the top feed)					
C Co	opper				01	2 12 inche	S				
6. Neut	ral/Ground	Busbar (size o	of neutral busba	r and/or grou	nd) 15	. Paint Colo	or (allow	ws painting	of the busway	housing)	
4 3 1	Phase plus N	eutral				FDO Factor				nt Factory Re	
7. Polar	ization (orien	tation of sectio	on for mating pur	poses)		L KO Paint I HTO Paint I				nt Factory Bl ase see page 2	
S Sta	andard		R Reverse	d							
8. Lug/	Box Options	(standard/dou	uble/bolt lugs an	d box size)							
S Sta	andard lugs, S	Standard box									
9. Lid C	rientation (fi	rom the termin	al, side with rem	ovable lid)							
N No	one (N/A)										

EXAMPLE

UA100T2C4S-SNSN-0200C012-BLK0 = US System, Above Feed, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Lugs, Standard Box, No Lid Orientation, Standard Accessory Package, No Accessory Location, 2 foot Straight Length, Continuous Access, 12 inch Feed Location, Painted Factory Black



BELOW FEED UNITS

PRODUCT DESCRIPTION

A Below Power Feed is designed to be installed anywhere along the full-access opening of a busway run. Insert the Power Feed connector into the busway run where desired and secure with a hanger bolt (supplied). The Below Power Feed unit must be completely installed in the selected busway housing before the adjacent housing section can be installed. A terminal block is provided in the box for field terminations. Power supply cable is fed in from under the unit.

Weight 4.8 lbs





		ED UN NUME									
U	В	100	T2	С	4	S	_	S	R	S	Ν
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Lug/Box Options	9. Lid Orientation		11. Accessories Location
1. Syster U US	<mark>n</mark> (standard o	f measure)			12. Paint Cold		ion	(from the ter	rminal, side wit	h removable li	d)
2. Product Type (section component)						10. Accessories Package (optional accessories for feed units)					
Below Feed 3. Product Frame (maximum amperage)					S						
3. Produ		naximum ampe	erage)		N	11. Accessories Location (from the terminal, side with accessory) N None (N/A)					
4. Comp	atibility (fra	me compatibili	ity)		12.	12. Paint Color (allows painting of the busway housing)					
5. Mater	5. Material (busbar material)					D0 Factory K0 Paint Fa HT0 Paint Fa	acto	ry Black	BLUO Pair	nt Factory Re nt Factory Blu base see page 2	Je
 6. Neutral/Ground Busbar (size of neutral busbar and/or ground) 4 3 Phase plus Neutral 					nd)						
7. Polarization (orientation of section for mating purposes) S S Standard R Reversed R											
 8. Lug/Box Options (standard/double/bolt lugs and box size) S Standard lugs, Standard box 											

EXAMPLE

UB100T2C4R-SRSN-WHT0 = US System, Below Feed, 100 amps, T2 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Right Lid Orientation, Standard Accessory Package, No Accessory Location, Painted Factory White



RAL COLORS

1ST CHARACTER				
Р	Paint			

2ND CHA	RACTER
0	100
1	101
2	102
3	103
4	200
5	201
Α	300
В	301
С	302
D	303
E	400
F	401
G	500
н	501
J	502
к	600
L	601
М	602
Ν	603
Р	700
Q	701
R	702
S	703
т	704
U	800
V	801
W	802
х	900
Y	901
Z	902

3RD CHA	RACTER
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

4TH CHARACTER0

EXAMPLE:

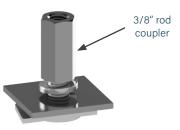
P B 2 0 = Paint RAL 3012



ACCESSORIES: SUPPORT HARDWARE

THREADED ROD

For mounting to 3/8 - 16 threaded rod. Can be inserted anywhere along the top full-access slot of busway. Hanger support is required every 10 feet maximum. Part Number URHB-3 Available in plain zinc or black (-BLK) Weight .3 lb



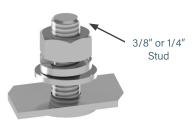
STANDARD

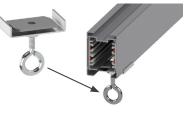
For mounting to strut or other flat surfaces. Twist-in design allows inserting anywhere along the top full-access slot on the busway. Hanger support is required every 10 feet maximum.

WEIGHT HOOK

Can be used as a hanger to suspend the busway from chains or cables. Can also be used to hang loads of up to 50 pounds under the busway, such as light fixtures, tools and balancers. Part Number UTHB-3 (3/8") UTHB-1/4 (1/4") Available in plain zinc or black (-BLK) Weight .2 lb

Part Number UWHRT2 Available in plain zinc Weight .2 lb







ACCESSORIES: SUPPORT HARDWARE

SURFACE MOUNT

For mounting to a surface. Comes with a 3/8 inch hole.

Part Number UMCT2-S (surface) Available in all standard and RAL colors

> Part Number UTHB-4

Available in plain zinc

Weight

.1 lb



T-BAR SUSPENDED CEILING

For mounting to an inverted T-bar. The clip locks onto T-bar and the busway is connected to the stud on the clip. T-bar is mounted with surface clip.

RECESSED MOUNT

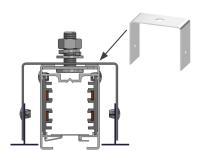
Recessed mount brackets are used when installing busway that is recessed into a suspended ceiling.

*Hanger bolt must be ordered separately

**Busway must sit slightly below the surface of the ceiling in order to install plug in units.

CABLE

For mounting to a 1/16 in or 3/32 in aircraft cable with easy grip clamp assembly. Cable is not included. Hanger support is every 10 feet maximum. Part Number URMT2 Available in plain zinc Weight .1 lb



Part Number UACH-1 (1/16" cable) UACH-2 (3/32" cable) Available in plain zinc Weight .2 lb





ACCESSORIES: CONNECTION HARDWARE

JOINT KIT

For the connection of adjacent busway sections. Each kit is comprised of an inline connector and housing coupler.

In-Line Connector: sections of busway are joined electrically by means of an in-line connector. All in-line bus connectors are polarized to prevent phase mismatch.

Housing Coupler: sections of busway are joined mechanically by means of a housing coupler. One is required per connection point.

IN-LINE CONNECTOR

For mounting to an inverted T-bar. The clip locks onto T-bar and the busway is connected to the stud on the clip. T-bar is mounted with surface clip.

Part Number UBCT2-4

Part Number

UJKT2-4

Available in all standard and

RAL colors



HOUSING COUPLER

Recessed mount brackets are used when installing busway that is recessed into a suspended ceiling.

*Hanger bolt must be ordered separately

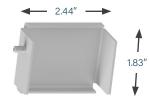
END CAP

For covering the end of 60T2 or 100T2 busway.

Part Number UHCT2 Available in all standard and RAL colors



Part Number UECT2 Available in all standard and RAL colors Weight: .2 lb



OPTIONAL CLOSURE STRIP

Made of white, rigid PVC, the closure strip is used to close the continuous access slot of the busway. It may be used for aesthetic purposes, for keeping dust and dirt from entering the busway or as an added safety measure. It is easily cut to length in the field to be installed around plug-in units.

Part Number UCST2 Available in black & white Maximum Cut Length: 20 ft



SERVICES

Regular servicing of busway systems is crucial for ensuring that your system performs at its best. By conducting regular maintenance, you can identify and address any potential issues before they turn into expensive problems, thus saving you time and money in the long run. Regular servicing can help extend the lifespan of your busway system, ensuring that it meets safety standards and complies with regulations. Choose from various offerings and customize a service plan that works best for you.

WE ARE CURRENTLY OFFERING THE FOLLOWING SERVICES:

COMMISSIONING AND EQUIPMENT RENTALS

Designing a mission-critical facility involves a significant investment of time and money. Through comprehensive commissioning services, Starline can help guarantee your project delivers the outcomes you expect.

Whether you need rental equipment to test your busway system or certified technicians to perform the testing, Starline has you covered. Choose from our inventory of load bank tap-offs and associated gear, or work with a Starline Engineer to customize and perform a commissioning plan to fit your specific needs.

METER SERVICES

Starline's certified technicians make optimizing your meters' performance and functionality a breeze. Our comprehensive on-site meter programming service includes inspecting, programming, reporting, and optional retrofitting services for you existing systems.

STARTUP AND SYSTEM CERTIFICATION

At Starline, we are committed to ensuring the success of your project. Our team understands the risks associated with the energization of systems, which is why we've designed a rigorous certification process to inspect, test and report on your Starline Busway and Critical Power Monitor ("CPM") products. Our certification process proactively identifies and prevents any potential issues before they happen.

To ensure the long-term success of your project, it is crucial to have Starline-certified technicians inspect and validate the installation before full commissioning. Level 2 and 3 commissioning ensures the installation complies with safety requirements and meets factory standards for ongoing reliability.

- Double the length of the standard factory warranty
- Ensure all joint and feed connections are properly installed with continuity testing
- Ensure proper installation of all plug-in units
- · Validate that system will perform to your specified requirements
- Full certification report delivered electronically at conclusion of service

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at **<u>downloads.starlinepower.com/services</u>**.



SERVICES

TURNKEY INSTALLATION SERVICES

Our trained and factory certified Busbar installers are looking forward to completing your next job. You can order your best-in-class power distribution system and leave the rest to us. Our technicians will complete your installation quickly and safely and will reduce your overall TCO by extending your product warranty.

PREVENTATIVE MAINTENANCE PLANS AND IR SCANNING

Although Starline busway is expertly designed to require less maintenance, NETA ATS and MTS guidelines recommend conducting annual inspections and health assessments on all critical equipment. Yearly preventative maintenance helps to ensure your system's long-term reliability and safety.

Starline's FLIR-certified technicians will create a custom preventative maintenance plan for your specific needs. Our certified technicians will work to:

- Identify thermal anomalies
- Extend equipment lifecycle
- Ensure optimal system performance
- Improve facility safety and operational sustainability

Upon completing your preventative maintenance plan, you may be eligible to extend your product warranty.

ON-SITE INSTALLATION SUPPORT

Starline's on-site installation service makes installing your busway as quick and easy as possible.

Our installation support starts with scheduling a preliminary trip to the installation site. During the initial visit, our certified technicians will train your installing contractor and develop a thorough installation and commissioning plan.

After completing the training, your installing contractor will have a direct line of communication with our installation experts. Our experts can help answer questions and provide hands-on guidance when needed.

Opting for Starline's installation support helps mitigate the installation risk and reduces the learning curve typically associated with new installations.

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at **downloads.starlinepower.com/services**.



SERVICES

ON-SITE PRODUCT TRAINING

At Starline, we offer comprehensive on-site product training services facilitated by our team of certified technicians. With their extensive expertise and commitment to upholding our high factory standards, you can confidently rely on them to ensure your and your systems' reliability and operational safety.

Our training programs equip your team with the knowledge and skills necessary to operate and maintain your systems effectively. Through hands-on demonstrations and interactive sessions, our certified technicians will guide your staff in understanding the intricate workings of the products and address any questions or concerns your team may have during the training process.

By choosing our on-site product training services, you are investing in your system's and operations' long-term success

RECERTIFICATION AND EXTENDED WARRANTY PLANS

Starline's recertification and extended warranty options provide best-in-class coverage for all of your Starline products and systems. Our extended warranty plans safeguard your investment beyond the standard warranty timeframe, offering you peace-of-mind while our recertification programs help mitigate risk and downtime. Whether the busway has been installed for years or you are relocating to another building, Starline is here to help.

Choose from one of our flexible one to four-year plans or have your system recertified anytime. Contact your Starline rep for more information.

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at **downloads.starlinepower.com/services**.



SPECS & INTRODUCTION

INTRODUCTION

Starline is the leader in electrical power distribution in the mission critical, commercial and light industrial industries with Starline Track Busway. This system was designed to meet the rugged specification of the UL857, Busway and Associated Fittings, with the flexible features of track lighting — and is available in systems with 100 or 225 amps with isolated ground.

Track Busway is the simple, versatile, fast and economical solution for supplying power to electrical loads and is unique because the busway can be instantly tapped at any location, with a variety of plug-in units.

The Product Selection Guide was developed to help the design engineer understand and consider all of the options available with Starline Track Busway when designing a system.

The Product Selection Guide also covers the Series-S Busway System, which offers the same performance, functionality, and flexibility of Starline Track Busway at higher ingress protection levels. Please note that most information is applicable across both systems. Any variations between systems will be differentiated throughout the document. In these cases, please note that the "S3" nomenclature refers to the Series-S system and "T3" refers to the standard Track Busway System.

SERIES-S SYSTEM

The Series-S System is certified to both IP54 and NEMA 3R ratings, which offers a higher level of protection against ingress of dust, water or other foreign objects. The unique sealed-system design provides the same level of protection across the entire power distribution system, from the power feeds to the busway and plug-in units.

Series-S plug-in units are specifically designed with durable, impact and chemical resistant materials commonly used in UL and outdoor applications. These plug-in units are paired with a wide variety of watertight rated IEC and NEMA devices.

This guide is all-inclusive; however, Starline excels at collaborating with design engineers to provide solutions for any application. If you have a need that is not found in this guide, please contact us at 1-800-245-6378. We will be happy to answer your questions over the telephone or schedule a visit with one of our local representatives.

Also, if viewing this guide in print, please keep in mind that this is a working document. Starline reserves the right to change information and descriptions of listed services and products. The latest version of this guide is available for download at <u>downloads.starlinepower.com/starline/busway/</u>.



SPECS & INTRODUCTION

SPECS

This specification covers the electrical characteristics and general requirements for a track busway system, hereafter referred to as (Track Busway or busway). The system shall be designed primarily for overhead distribution of electrical power; supporting designated work areas and equipment. Once installed the busway will provide a simple, versatile, fast and economic means of distributing power. Loads fed from a variety of plug-in units can be easily added or removed without shutting power down to the busway.

The Track Busway shall be designed and manufactured to the following standards:

1. Underwriters Laboratories Standard, UL 857 — The common UL, CSA, and ANCE Standard for Busways that is derived from the fifth edition of CSA Standard C22.2 No. 27, the twelfth edition of UL 857, and the second edition of NMX-J-148-1998-ANCE.

2. Low Voltage Switchgear and Controlgear Assemblies, Part 1: Type Tested and partially type tested Assemblies, IEC 61439-1 & IEC 61439-6.

SERIES-S SPECS

The S3 Busway Series is designed with additional levels of ingress protection, IEC IP54 and NEMA 3R ratings, against liquid and solid contaminants.

This system meets or exceeds the additional standards for ingress protection:

3. International Electrotechnical Commission (IEC) - 60529, Degrees of Protection Provided by Enclosures (IP Code)

4. National Electrical Manufacturers Association (NEMA) — 250, Enclosures for Electrical Equipment (1000 Volts Maximum)

5. Housing shall be protected against corrosion utilizing protective coating (per MIL-DTL-5541), while maintaining case grounding capability, with option for powder-coating.

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T3 AND S3 SERIES BUSWAY

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T3 AND S3 ACCESSORIES

RAL COLORS
ACCESSORIES: SUPPORT HARDWARE
ACCESSORIES: CONNECTION HARDWARE
ACCESSORIES: INSTALLATION TOOL



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S3 PLUG-IN UNITS

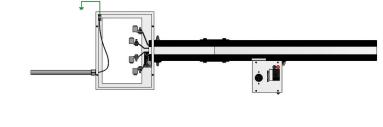
S3 PLUG-IN UNITS	
S3 ENCLOSURE STYLE OPTIONS	
SYSTEM & BUILD GUIDE	
CIRCUIT BREAKER w/ DEVICES: PRODUCT NUMBERS	
US DEVICE CODE TABLE	

GROUND OPTIONS

100 & 225 OPTIONS CASE GROUND/CHASSIS EARTH

Uses aluminum housing and no extra copper bar.

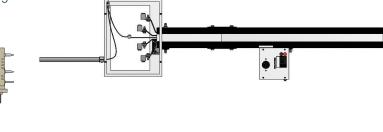




100 OPTION ONLY DEDICATED GROUND/EARTH

Extra bar in busway for ground. Everything tied together inside plugs. Bar and housing at same potential.

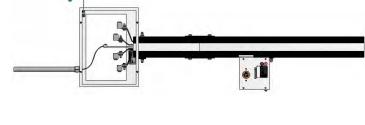




100 OPTION ONLY ISOLATED GROUND/EARTH

Orange receptacles in plugs. Case ground isolated from copper ground bar. Isolated ground carried back to panel by others.





*For further details about Dedicated Ground vs. Isolated Ground, please reference our "Isolated Ground vs. Dedicated Ground" tech brief on **downloads.starlinepower.com/starline/busway**.

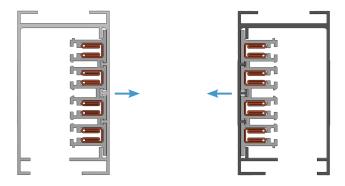


POLARITY TIPS

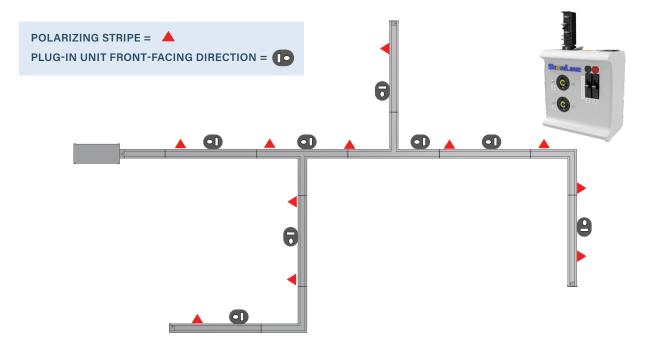
Starline utilizes a unique polarizing method to prevent mismatched components from being inadvertently connected to each other. The system is designed to prevent cross phasing during installation.

It is particularly important to understand this design concept prior to ordering and/or installing some components.

For example, if the face direction of a Starline plug-in unit is important in your installation consider that they will always face the conductor side. Certain plug-in units are 'reversible', designated by 'R', to face devices away from the conductor side.



All standard outlet boxes face the conductor side unless reversed plugs are specified





SYSTEM LAYOUT TIPS

POWER FEEDS

Determine location of power feeds based on relation to power source, existing feeders and voltage drop concerns for longer runs.

SUPPORT HARDWARE

Support hardware is spaced no more than 10 feet apart. Refer to **page 3.39** for support hardware details. Contact your local Starline applications engineer for any questions.

INSTALLATION

Printed installation drawings are supplied with each system shipment and they are also available for download online at <u>downloads.starlinepower.com</u>. CAD files of these drawings are also available by contacting your local Starline applications engineer.

BUSWAY HOUSING SECTIONS

Standard busway lengths are available in 5, 10 and 20 foot increments. Although the factory can cut individual Starline Track Busway sections to any length under 20 feet, it is highly recommended to keep all layout runs in increments of 5 feet to simplify layout and installation. Custom lengths can be made but can increase lead time and make layout and installation a bit more complex.

BUSWAY TEES AND ELBOWS SECTIONS

Try to keep all runs as straight as possible as tees and elbows are added cost. Pay close attention to polarity on the elbows. The polarity will need to match the adjacent busway section(s) to be compatible.

LENGTH OF BUSWAY FOR A ONE VOLT DROP IN LINE TO LINE VOLTAGE:					
SYSTEM DESIGNATION	DISTRIBUTED LOAD	VOLTAGE DROP @ 0.8 PF SINGLE PHASE	VOLTAGE DROP @ 0.8 PF THREE PHASE		
100T3 (standard)	100 amps	42 ft	72 ft		
225T3 (standard)	225 amps	28 ft	48 ft		



SYSTEM LAYOUT TIPS

S3 INFORMATION:

Each piece of S3 housing components (straights and elbows) requires an S3 joint kit (containing two housing couplers, one bus connector, a joint seal, and two joint covers). Determine the total number of housing sections (regardless of length) as this becomes the number of joint kits that will be needed. Add one extra joint kit for each tee section. If this is your first installation for S3 systems, you will need to order an Installation Tool (ST3IT). Closure strip must also be ordered separately, and should match the total length of busway housing ordered.

PLEASE NOTE: All S3 Busway components are designed to work together to function as one complete IP54-rated system. When selecting system components, it is important that only S3 Busway components from this catalog are used together. Do not use any T3 components within this catalog. For technical questions related to these systems and/or specific applications, please contact our technical support team.

LENGTH OF BUSWAY FOR A ONE VOLT DROP IN LINE TO LINE VOLTAGE:									
SYSTEM DESIGNATION	DISTRIBUTED LOAD	VOLTAGE DROP @ 0.8 PF SINGLE PHASE	VOLTAGE DROP @ 0.8 PF THREE PHASE						
100S3 (standard)	100 amps	42 ft	72 ft						
225S3 (standard)	225 amps	28 ft	48 ft						



COMPONENT RELATIONSHIP TIPS

When ordering material, it is important to understand the relationship between various components.

EXAMPLES

- Each piece of housing (straights and elbows) requires a joint kit (containing two housing couplers and one bus connector). Determine the total number of housing sections (regardless of length) as this becomes the number of joint kits that will be needed. Add one extra joint kit for each tee section.
- If this is your first installation for 100T3 or 225T3 systems, you will need to order an Installation Tool (ST3IT).

GENERAL SUPPORT HARDWARE RULE TO FOLLOW:

10 feet maximum spacing between supports and we recommend 10% more than the required quantity to cover potential layout changes.

- Total Power Feeds and End Caps can be determined by counting the total number of unconnected runs.
- Before specifying or ordering Elbow or Tee connectors, it is important to understand polarity and the relationship to direction of outlets. Please refer to **page 3.5** Polarity Tips for more detail.

S3 SYSTEM INFORMATION

All S3 components must be purchased and installed together to build a complete S3 System.

For the S3 system, please note the specific catalog numbering systems dedicated for these components. S3 system components will include the "S3" nomenclature in the "compatibility" field of the catalog number. 225S3 (standard)

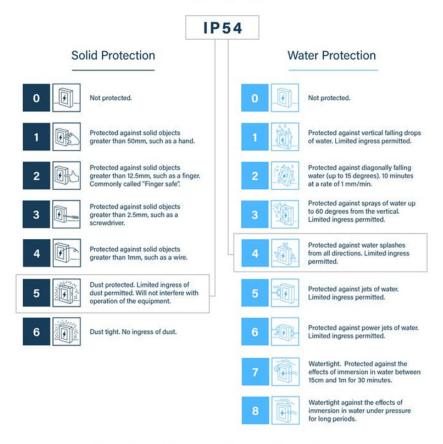
The standard installation tool (ST3IT) can be used for both the T3 and S3 system.

INGRESS PROTECTION

This table provides descriptions for the various Ingress Protection (IP) ratings as listed in IEC 60529. General T5 Busway is listed as IP2X. IP3X rated busway is available with additional accessories. Series - S Busway is available with an IP54 rating.

As the table indicates, for the IP54 rating the first number (5) pertains to the solid particle protection and the second (4) pertains to the level of protection from water. For purposes of real-world application of the Series-S busway system, please consider these general guidelines.

1. Splashproof and sprinkler proof; 2. Highly dust-resistant; 2. Not waterproof or watertight; 3. Not for outdoor use; 4. Not subject to direct exposure to natural elements, such as wind, rain, sun, ice, etc.



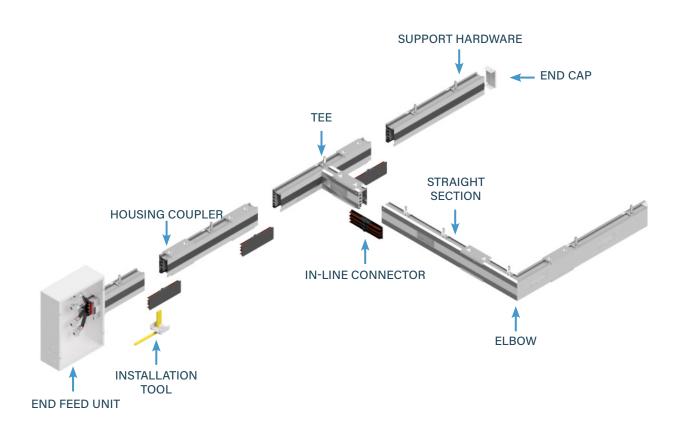
IP Rating Table

Ratings in accordance with the International Electrotechnical Commission (IEC) - 60529, Degrees of Protection Provided by Enclosures (IP Code)



T3 SERIES

SYSTEM LAYOUT DRAWING





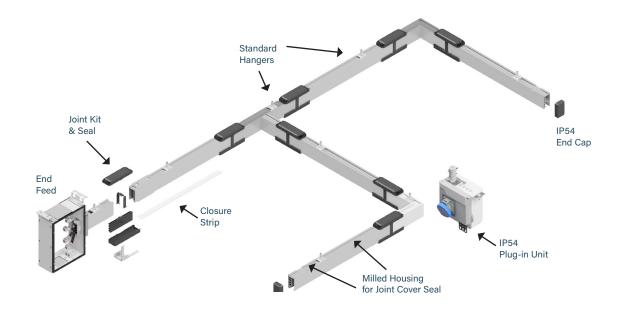
T3 PLUG-IN UNITS

See page **3.55** for further information on applicable T3 plug-in unit options.



S3 SERIES

SYSTEM LAYOUT DRAWING





S3 PLUG-IN UNITS

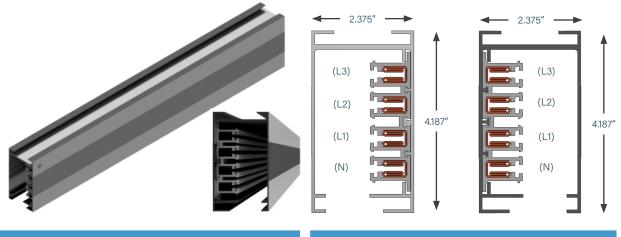
See enclosure style options page **3.76** for more information on applicable plug-in units.



STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with channel type solid copper busbars contained in a full length insulator mounted on one side of the interior wall. Each straight has an open access slot over its entire length for the insertion of turn-n-lock plug-in units. Housing configuration is 4 pole, 600 Volt. Busway joint connections are made using a joint kit, which includes a housing coupler and bus connector. An installation tool is used to insert the bus connector in between the busbar channels of the two sections for a solid spring-tempered electrical connection. A housing coupler is then used to make a solid mechanical connection.



MATERIAL

Extruded Aluminum Note: S3 housing includes corrosion resistant base coating

RATINGS

100% Ground Path US: 100 Amp, 600 Volt Metric: 160 Amp, 415 Volt

LENGTH

T3: 5 ft, 10 ft, 20 ft; or custom lengths between 2 - 20 ft S3: 5 ft, 10 ft max. Consult factory for additional lengths

VOLTAGE DROP

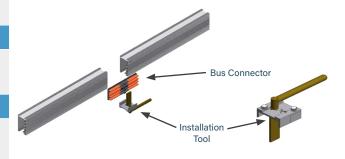
Distributed load Single Phase 1V per 54 ft (.8PF) Three Phase 1V per 62 ft (.8PF)

WEIGHT

- 10 ft 4 pole: 26 lbs
- 10 ft 4 pole w/ ground: 30 lbs
- 10 ft 4 pole w/ 200% N: 33 lbs

10 ft 4 pole w/ ground & 200% N: 34 lbs

US	
L1 or Phase A	Black
L2 or Phase B	Red
L3 or Phase C	Blue
Neutral	White
Ground	Green/Black



STRAIGHT SECTIONS: PRODUCT NUMBERS

	U	S	100	Т3	С		4	S	- (0200	С	
	1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	Gro	utral/ ound sbar	7. Polarization	8 S	traight	9. Busway	
				- 5	STD	0						
				10. Pair	nt Color	11. Tape Marking]					
1. System	(standard of ı	measure)			9	9. Busw	ay Acc	ess (how plug	gs acc	ess the bus	sway)	
U US						C Cc	ntinuou	IS				
2. Product	t Type (section	on componer	nt)		1	IO. Pain	t Color	(allows paintii	ng of i	he busway	housing)	
S Straig	ght Section				-			Mill Finish			Paint Factor	
3. Product	t Frame (ma	ximum ampel	rage)					actory Black actory White			Paint Factor please see pa	/
100 100 a	mps							es-S Housing				resistant
4. Compat	tibility (fram	e compatibilit	y)		k	base co	ating, re	egardless of	paint	color sele	ection.	
T3 T3 Sy	ystem		S3 S3 Syst	tem	[1	I1. Tape	Markin	ng (colored ta	be on	both sides	of buswav hou	ısina)
5. Materia	l (busbar mat	terial)					o Tape N		7		Factory Blue	
C Copp	ber							ory Black ory White	8		Factory Gre Factory Yell	
6. Neutral	/Ground Bi	usbar (size o	f neutral busb	ar and/or ground				ory Red	3	Таре	raciory rein	Jvv
4 3 Pha	ase plus Net	utral		e plus Neutral p I Ground Cond								
N 3 Pha	ase plus 200	0% Neutral		e plus 200% Ne ernal Ground ctor	eutral							
7. Polariza	tion (orienta	tion of section	n for mating pu	irposes)								

EXAMPLES

S

Standard

8. Straight Length (length of section) XXYY XX=feet, YY=inches

US100T3C4S-0206C-STD0 = US System, Straight Section, 100 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 2 foot 6 inch Straight Length, Continuous Access, Factory Mill Finish, No Tape Marking

<u>US100T3CNS-0500C-P013</u> = US System, Straight Section, 100 amps, T3 System, Copper Conductor, 3 Phase plus 200% Neutral, Standard Polarization, 5 foot Straight Length, Continuous Access, Painted RAL 1001, Factory Black Tape

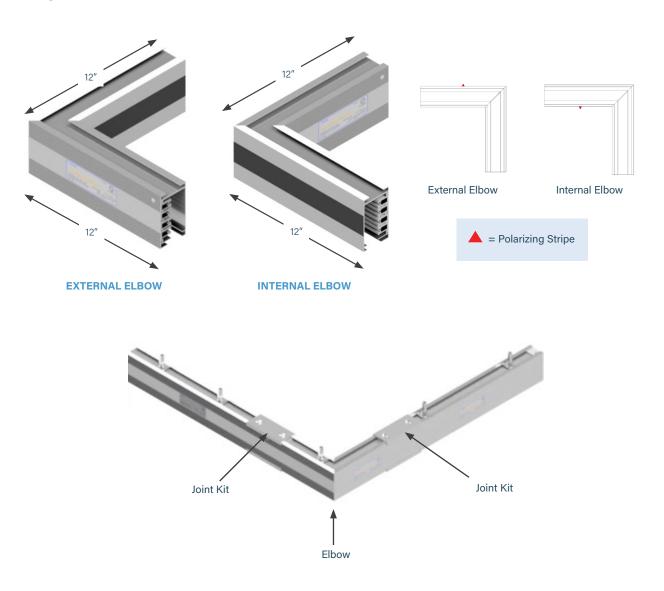


ELBOW SECTIONS

PRODUCT DESCRIPTION

Elbows are used for making a 90 degree in a busway run. Horizontal elbows are available. Specify external or internal elbow according to the orientation of the busbars in the busway sections to be connected. Elbow sections are connected to adjacent busway sections using an installation tool and joint kit that includes a housing coupler and bus connector (ordered separately). This handles both the mechanical and electrical connection between a straight section and elbow section of busway.

Weight 5.6 lbs



ELBOW SECTIONS: PRODUCT NUMBERS

	U	Е	100	Т3	С	4	S	– IN	
	1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	8. Turning Direction	
				- STD	0				
				9. Paint Color	10. Tape Marking				
1. System (star	ndard of measu	re)			8. Turnin	g Direction	(direction of s	ection polarizing	g stripe)
U US					IN Inte			EX External	
2. Product Ty	pe (section cor	mponent)			HN Seis	smic Internal		GX Seismic	External
E Elbow Se	ection				9. Paint	Color (allows	painting of the	e busway housin	g)
3. Product Fra 100 100 amps		n amperage)			BLK F	Factory Mill F Paint Factory Paint Factory	Black Bl	LU Paint	Factory Red Factory Blue e see page 3.38
4. Compatibili	ity (frame.com	natibility)			NOTE: A	ll Series-S h	ousings inclu	de a clear coi	rosion resista
T3 T3 Syste			S3 System		base coa	ting, regard	ess of paint of	color selectior	1.
			55 System		10. Tape	Marking (co	lored tape on l	ooth sides of bu	sway housing)
5. Material (bu	ısbar material)					Tape Markir		Tape Facto	
C Copper						be Factory Bl be Factory W		Tape Facto Tape Facto	
6. Neutral/Gr	ound Busbar	(size of neut	ral busbar and	/or ground)		e Factory Re			
4 3 Phase	plus Neutral	G	3 Phase plus Internal Grou	Neutral plus Ind Conductor					
N 3 Phase p	plus 200% Ne	eutral F	3 Phase plus plus Internal Conductor	200% Neutral Ground					
7. Polarization	n (orientation of	f section for m	nating purpose	s)					
Standard	4								

S Standard

EXAMPLES

<u>UE100T3C4S-IN-BLK4</u> = US System, Elbow Section, 100 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Painted Factory Black, Factory White Tape

<u>UE100T3CNS-EX-STD0</u> = US System, Elbow Section, 100 amps, T3 System, Copper Conductor, 3 Phase plus 200% Neutral, Standard Polarization, External Turning Direction, Factory Mill Finish, No Tape Marking



TEE SECTIONS

PRODUCT DESCRIPTION

Tee sections are used for creating a 90 degree branch leg in a busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. External tees are preferred. Tee sections are connected to adjacent busway sections using an installation tool and joint kit that includes a housing coupler and bus connector (ordered separately). This handles both the mechanical and electrical connection between a straight section and tee section of busway.

Weight 8 lbs



TEE SECTIONS: PRODUCT NUMBERS

	U	т	100	Т3	С	4	S	_	IR	
	1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarizatio	on	8. Turning Direction	
				- STD 9. Paint Color	10. Tape Marking					
1. System (stat U US 2. Product Ty T Tee Sect	pe (section co				IL Inte IR Inte HL Seis	g Direction rnal-Left rnal-Right smic Internal-	-Left	EL ER GL	External- External- Seismic I	Left
3. Product Fra 100 100 amp 4. Compatibil	s lity (frame con	npatibility)			STD F BLK F	Color (allows Factory Mill F Paint Factory Paint Factory	-inish I Black I	he bus RED BLU **RAI	Paint Paint	g) Factory Red Factory Blue • see page 3.38)
 T3 T3 System 5. Material (but compared) C Copper 			S3 System		base coa	ting, regard Marking (co	less of pain lored tape of	t colo n both	r selection sides of bus	way housing)
6. Neutral/Gr 4 3 Phase	r ound Busba plus Neutral		3 Phase plus		3 Tap 4 Tap	Tape Markin e Factory B e Factory W e Factory R	lack k hite s	B ⁻	Tape Facto Tape Facto Tape Facto	ry Green
N 3 Phase	plus 200% N		plus Internal Conductor							
S Standard	b									

EXAMPLES

<u>UT100T3C4S-IR-RED0</u> = US System, Tee Section, 100 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Red, No Tape Marking

UT100T3CGS-EL-STD0 = US System, Tee Section, 100 amps, T3 System, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External-Left Turning Direction, Factory Mill Finish, No Tape Marking



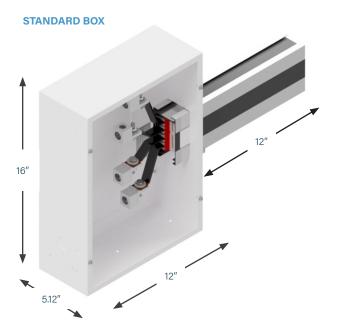
END FEED UNITS

PRODUCT DESCRIPTION

End power feed units connect to the end of the busway. A large size, factory assembled unit consists of a steel junction box, with removable sides, connected to a 12 inch section of busway. The assembly includes connection lugs, a ground lug and shrink tubing for wires up to 300 MCM.

End power feed units are connected to adjacent busway sections using an installation tool and housing coupler set (ordered separately).

Special need power feed units for confined spaces as found in mission critical data centers can also be designed and fabricated requiring minimum quantities.



Top View	standard orientation
	6
	reversed orientation
INFRARED (IR) W Refer to option 10. Acces page 3.21 End Feed Uni	0





100S3 End Feed

Box size and Lug options: Refer to option 8. Lug/Box Options on page 3.21 End Feed Units: Product Numbers

LUGS

Standard

Double

Bolt

Standard

s

D

BOXES

Large

L

Α

Fused

*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on <u>downloads.starlinepower.com/starline/busway</u>

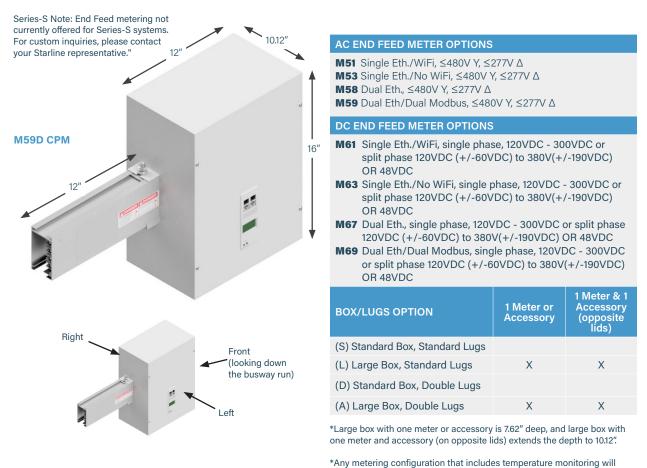


END FEED UNITS: METERING

PRODUCT DESCRIPTION

Standard end power feed units connect to the end of the busway. A factory assembled unit consists of a steel junction box, with removable sides, connected to a 12 inch section of busway. The assembly includes connection lugs, a ground lug, and shrink tubing for wires up to 300 MCM.

Integral CPM installed in the end feed provides power monitoring and alarm capabilities. The M50 models are for AC busway, while the M60 models are for DC busway. Nuisance tripping may be avoided using the current information to protect against overloading phases. The monitors also assist in the continuous challenge to balance the three phase loads. An automated email will be sent at 80% of full load as a warning to the user. This level may be changed in the field using the integrated webpage.



*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 3.21** End Feed Units: Product Numbers)

A meter and accessory can not be on the same lid.

require a box depth of 10.12".



END FEED UNITS: ACCESSORIES

IR WINDOWS

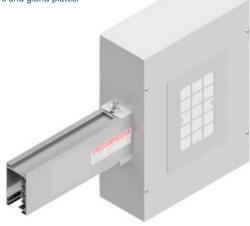
Starline Track Busway Polymer IR Window systems use a proprietary stack-up of advanced materials to ensure highest levels of safety and optimal infrared thermography of critical connections.

When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

Safely and accurately scan connection points while the system is under load, without exposing the operator to live connections. **FEATURES & BENEFITS**

- Allows for safe IR scanning without powering down busway
- Complete system coverage with IR windows for plug-in units and end feeds
- End feed IR windows designed in 2 sizes for optimized viewing angles
- Cost effective design allows for quick end user ROI
- ETL Listed, CE Marked
- Lower TCO
- Enhanced safety
- Effective preventative maintenance

Notes: All Series-S End Feeds are offered with pre-installed hangers and gland plates.



Note: Rectangular IR window option not available for Series-S systems. See S3 end feed accessories package for more information.

GENERAL SPECIFICATIONS	
Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Alu- minum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T3); IP54 (S3)
Max Operating Temperature	125°C
WINDOW DIMENSIONS	
End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 500A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17. M50 Options on **page 3.22** End Feed Units: Product Numbers)

(Refer to option 10. Accessories Package on **page 3.21** End Feed Units: Product Numbers)



END FEED UNITS: PRODUCT NUMBERS



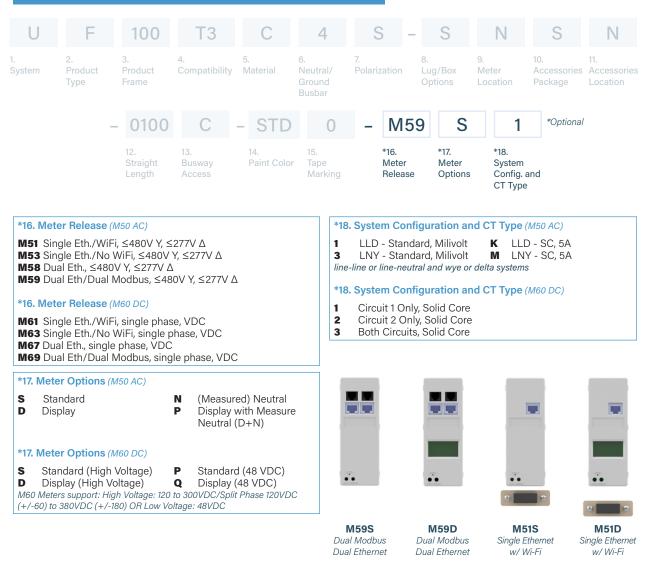
1. S	system (standard of measure)		10. Acce	ssories Package (op	tional acc	cessories for feed units)			
U	US		T3 Optio S Sta	ns: ndard					
2. F	Product Type (section component)			rline Rect. IR Windov	v, 5″x7″				
F	End Feed			Window - Circular					
3. F	Product Frame (maximum amperage	e)	D Sei	smic Mounting Holes smic with IR Window	, Circula				
100	100 amps		Q Sei	smic with IR Window	Rectan	igular			
4. 0	Compatibility (frame compatibility)		S3 Optio						
Т3	T3 System S3	S3 System		Standard (includes h Standard + IR Windo					
5. N	Material (busbar material)		11. Acces	ssories Location (from	m the ter	minal, side with accessory)			
С	Copper		N Nor L Lef	ne (N/A)	R F	Right Front (consult the factory)			
6. 1	Neutral/Ground Busbar (size of ne	eutral busbar and/or ground)	L Lei	l		From (consult the lactory)			
4	3 Phase plus Neutral G	3 Phase plus Neutral plus	12. Straig	ght Length (length of	section)				
N	3 Phase plus 200% Neutral F	Internal Ground Conductor 3 Phase plus 200% Neutral	0100 1 # (For other lengths, consult the factory)						
14		plus Internal Ground	ernal Ground 13. Busway Access						
		Conductor	C Cor	ntinuous					
7. P	Polarization (orientation of section fo	r mating purposes)	14. Paint	Color (allows painting	of the bu	uswav housing)			
S	Standard R	Reversed		actory Mill Finish		Paint Factory Red			
8. L	ug/Box Options (standard/double,	/bolt lugs and box size)	BLK P	aint Factory Black	BLU	Paint Factory Blue			
s	Standard lugs, Standard box D	Double lugs, Standard box	WHT P	aint Factory White	**RA	L (please see page 3.38)			
L	Standard lugs, Large box A	Double lugs, Large box	15. Tape	Marking (colored tape	on both	sides of busway housing)			
9. N	Meter Location (from the terminal, s	ide with removable lid;		Tape Marking	7	Tape Factory Blue			
met	er must follow lid orientation on large	box)		e Factory Black e Factory White	8 9	Tape Factory Green Tape Factory Yellow			
R N	Right L None (N/A)	Left		e Factory Red					

EXAMPLE

<u>UF100T3C4R-LNSN-0100C-STD0</u> = US System, End Feed, 100 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Large Box, No Meter Location, Standard Accessory Package, No Accessory Location- 1 foot Straight Length, Continuous Busway Access- Factory Mill Finish, No Tape Marking



END FEED METERING: PRODUCT NUMBERS



Note: Series - S end feeds not currently equipped with power monitoring. Consult factory for details.

EXAMPLE

UF100T3C4R-LNSN-0100C-STD0-M59D1 = US System, End Feed, 100 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Large Box, No Meter Location, Standard Accessory Package, No Accessory Location, 1 foot Straight Length, Continuous Busway Access, Factory Mill Finish, No Tape Marking, M59 Meter with Display, LLD - Standard, Milivolt



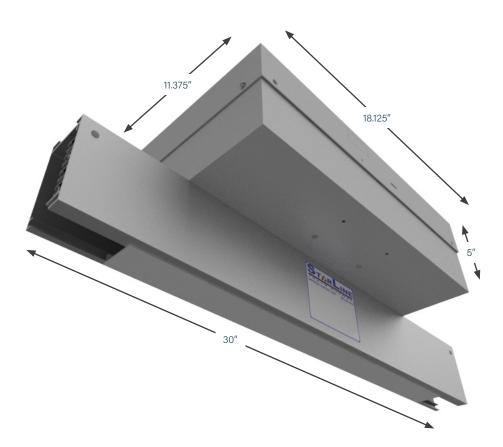
ABOVE FEED UNITS

PRODUCT DESCRIPTION

The above feed power unit comes as a completely pre-wired steel box to the top of a 30 inch section of busway. A connection lug is located inside the box for field termination of supply power cable up to 1/0. This unit is then connected to the end of an adjoining busway section using an installation tool and set of housing couplers (ordered separately).

Weight 16.5 lbs

*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on <u>downloads.starlinepower.com/starline/busway</u>





ABOVE FEED UNITS: PRODUCT NUMBERS

U	А	100	Т3	С	4	S	6 -	•	S		N	S	Ν
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polariz	zation		g/Box otions	9. Mete Loca	er ation	10. Accessories Package	11. Accessories Location
-	0206	С	015	- STD	0	-	M5	9	S		1	*Optional	
	12. Straight Length	13. Busway Access	14. Feed Location	15. Paint Color	16. Tape Marking		*17. Meter Release	•	*18. Meter Options	:	*19. System (and CT ⁻	0	

1. System (standard of measure)	12. Straight Length (length of section)
U US	0206 2 feet, 6 inches
2. Product Type (section component)	13. Busway Access (how plugs access the busway)
A Above Feed	C Continuous
3. Product Frame (maximum amperage)	14. Feed Location (location of the center of the top feed)
100 100 amps	015 15 inches (For other lengths, consult the factory)
4. Compatibility (frame compatibility)	15. Paint Color (allows painting of the busway housing)
T3 System S3 S3 System	STD Factory Mill Finish RED Paint Factory Red
5. Material (busbar material)	BLK Paint Factory Black BLU Paint Factory Blue WHT Paint Factory White **RAL (please see page 3.38)
C Copper	16. Tape Marking (colored tape on both sides of busway housing)
6. Neutral/Ground Busbar (size of neutral busbar and/or ground)	No Tape Marking 7 Tape Factory Blue
4 3 Phase plus Neutral G 3 Phase plus Neutral plus	 3 Tape Factory Black 4 Tape Factory White 9 Tape Factory Yellow
 N 3 Phase plus 200% Neutral F 3 Phase plus 200% Neutral 	6 Tape Factory Red
plus Internal Ground Conductor	*17. Meter Release (M50 Series Meters)
	M51 Single Eth./WiFi, \leq 480V Y, \leq 277V Δ
7. Polarization (orientation of section for mating purposes)	M53 Single Eth./No WiFi, ≤480V Y, ≤277V Δ M58 Dual Eth., ≤480V Y, ≤277V Δ
S Standard R Reversed	M59 Dual Eth/Dual Modbus, \leq 480V Y, \leq 277V Δ
8. Lug/Box Options (standard/double/bolt lugs and box size)	*18. Meter Options (choose from a 4.1" display, measured neutral,
S Standard lugs, Standard box L Standard lugs, Large box	audible alarm and/or a temperature monitor)
9. Meter Location (from the terminal, side with removable lid; meter must follow lid orientation on large box)	SStandard (M60s also)N(Measured) NeutralDDisplay (M60s also)PProfessional (D+N))
R Right L Left N None (N/A)	*19. System Configuration and CT Type (line-line or line-neutral
10. Accessories Package (optional accessories for feed units)	and wye or delta systems)
S Standard	1LLD - Standard, MilivoltKLLD - SC, 5A3LNY - Standard, MilivoltMLNY - SC, 5A
11. Accessories Location (from the terminal, side with removable lid)	
N None (N/A)	

EXAMPLE

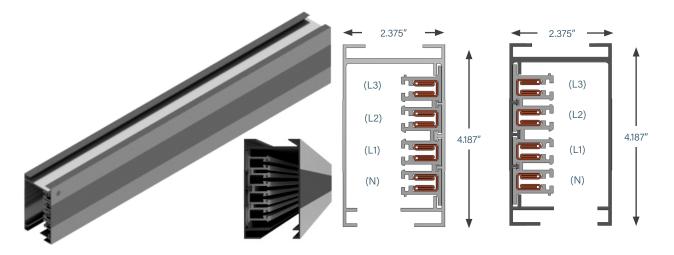
<u>UA100T3CFS-LNSN-0206C015-STD0</u> = US System, Above Feed, 100 amps, T3 System, Copper Conductor, 3 Phase plus 200% Neutral plus Internal Ground Conductor, Standard Polarization, Standard Lugs, Large Box, No Lid Orientation, Standard Accessory Package, No Accessory Location- 2 foot 6 inch Straight Length, Continuous Busway Access, 15 inch Feed Location, Factory Mill Finish, No Tape Marking



STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with channel type solid copper busbars contained in a full length insulator mounted on one side of the interior wall. Each straight has an open access slot over its entire length for the insertion of turn-n-lock plug-in units. Housing configuration is 4 pole, 600 Volt. Busway joint connections are made using a joint kit, which includes a housing coupler and bus connector. An installation tool is used to insert the bus connector in between the busbar channels of the two sections for a solid spring-tempered electrical connection. A housing coupler is then used to make a solid mechanical connection.



MATERIAL

Extruded Aluminum *Note:* S3 housing includes corrosion resistant finish

RATINGS

100% Ground Path 225 Amp, 600 Volt

LENGTH

5 ft, 10 ft, 20 ft; or custom lengths between 2 - 20 ft S3: 5ft, 10 ft max. Consult factory for additional lengths

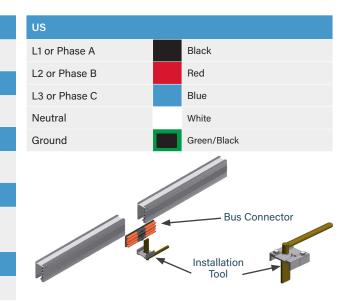
VOLTAGE DROP

Distributed load

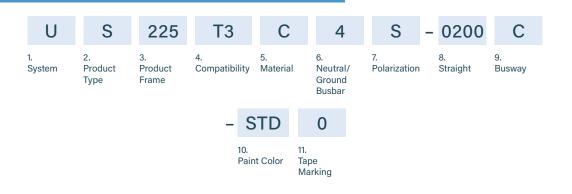
Single Phase 1V per 28 ft (.8PF) Three Phase 1V per 48 ft (.8PF)

WEIGHT

10 ft 4 pole: 33 lbs



STRAIGHT SECTIONS: PRODUCT NUMBERS



1. System (standard of measure)	9. Busway Access (how plugs access the busway)					
U US	C Continuous					
2. Product Type (section component)	10. Paint Color (allows painting of the busway housing)					
S Straight Section	STD Factory Mill Finish RED Paint Factory Red					
3. Product Frame (maximum amperage)	BLK Paint Factory Black BLU Paint Factory Blue WHT Paint Factory White **RAL (please see page 3.38)					
225 225 amps	NOTE: All Series-S housings include a clear corrosion resistant					
4. Compatibility (frame compatibility)	base coating, regardless of paint color selection.					
T3 System	11. Tape Marking (colored tape on both sides of busway housing)					
5. Material (busbar material)	O No Tape Marking 7 Tape Factory Blue Tape Factory Black 8 Tape Factory Green					
C Copper	4 Tape Factory White 9 Tape Factory Yellow 6 Tape Factory Red					
6. Neutral/Ground Busbar (size of neutral busbar and/or ground)						
4 3 Phase plus Neutral						
7. Polarization (orientation of section for mating purposes)						
S Standard						
8. Straight Length (length of section)						
XXYY XX=feet, YY=inches						

EXAMPLES

US225T3C4S-0206C-STD6 = US System, Straight Section, 225 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 2 foot 6 inch Straight Length, Continuous Busway Access, Factory Mill Finish, Factory Red Tape

<u>US225T3C4S-1000C-P013</u> = US System, Straight Section, 225 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 10 foot Straight Length, Continuous Busway Access, Painted RAL 1001, Factory Black Tape

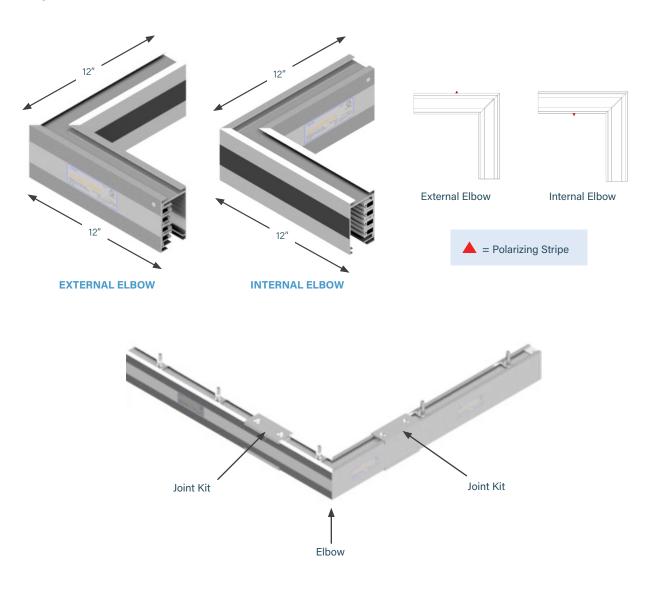


ELBOW SECTIONS

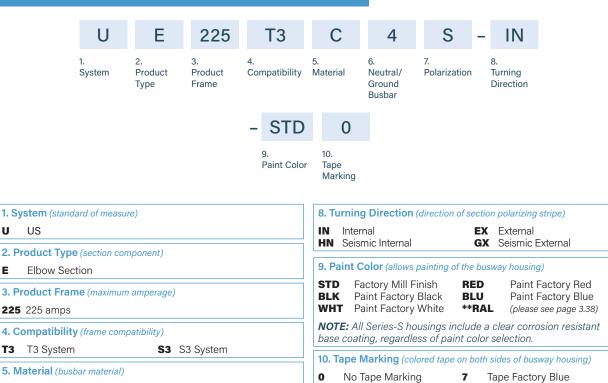
PRODUCT DESCRIPTION

Elbows are used for making a 90 degree in a busway run. Horizontal elbows are available. Specify external or internal elbow according to the orientation of the busbars in the busway sections to be connected. Elbow sections are connected to adjacent busway sections using an installation tool and joint kit that includes a housing coupler and bus connector (ordered separately). This handles both the mechanical and electrical connection between a straight section and elbow section of busway.

Weight 5.5 lbs



ELBOW SECTIONS: PRODUCT NUMBERS



3

4

6

Tape Factory Black

Tape Factory White

Tape Factory Red

8

9

Tape Factory Green Tape Factory Yellow

C Copper

6. Neutral/Ground Busbar (size of neutral busbar and/or ground)

4 3 Phase plus Neutral

7. Polarization (orientation of section for mating purposes)

S Standard

EXAMPLES

<u>UE225T3C4S-EX-WHT0</u> = US System, Elbow Section, 225 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, External Turning Direction, Painted Factory White, No Tape Marking

UE225T3C4S-IN-PH40 = US System, Elbow Section, 225 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Painted RAL 5014, No Tape Marking

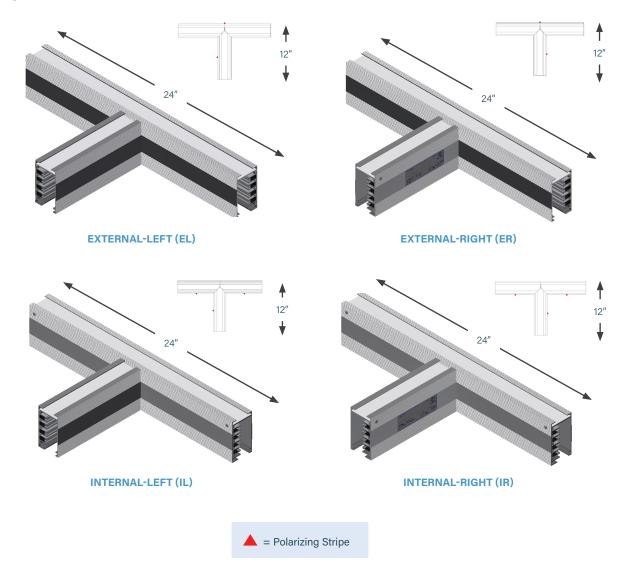


TEE SECTIONS

PRODUCT DESCRIPTION

Tee sections are used for creating a 90 degree branch leg in a busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. External tees are preferred. Tee sections are connected to adjacent busway sections using an installation tool and joint kit that includes a housing coupler and bus connector (ordered separately). This handles both the mechanical and electrical connection between a housing section and tee section of busway.

Weight 9.2 lbs



TEE SECTIONS: PRODUCT NUMBERS

	U	Т	225	Т3	С	4	S	-	IR	
	1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarizatio	n	8. Turning Direction	
				- STD	0					
				9. Paint Colo	10. r Tape Marking					
1. Syste	em (standard of measu	ıre)			8. Turnin	g Direction	(direction of	sectio	n polarizing	stripe)
U U	S					rnal-Left rnal-Right		EL ER	External- External-	
	uct Type (section con ee Section	mponent)			HL Seis	mic Internal- mic Internal-		GL	Seismic I	External-Left External-Right
3. Prod	uct Frame (maximun	n amperage)			9. Paint (Color (allows	painting of th	ne bus	way housin	g)
225 22	5 amps					actory Mill F		ED		Factory Red
4. Com	patibility (frame com	patibility)				Paint Factory Paint Factory		SLU *RAI		Factory Blue see page 3.38
T5 T5	5 System	S5 (S5 System			ll Series-S ho ting, regardl				rosion resista
5. Mate	erial (busbar material)									way housing)
C Co	opper					Tape Markin			Tape Facto	, o,
	ral/Ground Busbar Phase plus Neutral	r (size of neuti	al busbar and,	/or ground)	3 Tap 4 Tap	e Factory Bl e Factory W e Factory Re	ack 8 hite 9	۲ (Tape Facto Tape Facto	ry Green
	ization (orientation of andard	f section for m	ating purposes	s)	u iap		-u			

EXAMPLES

<u>UT225T3C4S-IR-BLU0</u> = US System, Tee Section, 225 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Blue, No Tape Marking

<u>UT225T3C4S-EL-STD0</u> = US System, Tee Section, 225 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, External-Left Turning Direction, Factory Mill Finish, No Tape Marking



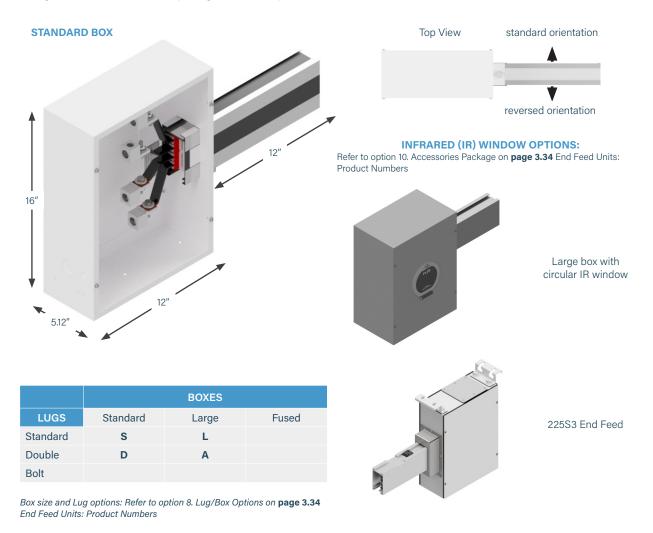
END FEED UNITS

PRODUCT DESCRIPTION

Standard end power feed units connect to the end of the busway. Factory assembled unit consists of a steel junction box, with removable side, connected to a 12 inch section of busway. The assembly includes connection lugs, a ground lug and shrink tubing for wires up to 300 MCM.

End power feed units are connected to adjacent busway sections using an installation tool and joint kit (ordered separately).

Special need power feed units for confined spaces as found in mission critical data centers can also be designed and fabricated requiring minimum quantities.



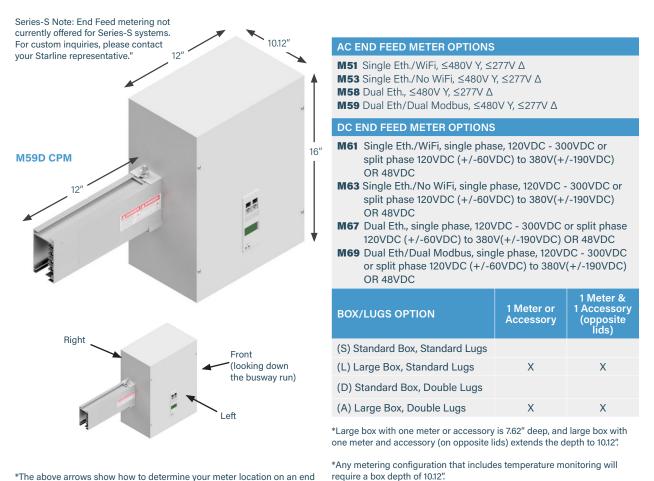


END FEED UNITS: METERING

PRODUCT DESCRIPTION

Standard end power feed units connect to the end of the busway. A factory assembled unit consists of a steel junction box, with removable sides, connected to a 12 inch section of busway. The assembly includes connection lugs, a ground lug, and shrink tubing for wires up to 300 MCM.

Integral CPM installed in the end feed provides power monitoring and alarm capabilities. The M50 models are for AC busway, while the M60 models are for DC busway. Nuisance tripping may be avoided using the current information to protect against overloading phases. The monitors also assist in the continuous challenge to balance the three phase loads. An automated email will be sent at 80% of full load as a warning to the user. This level may be changed in the field using the integrated webpage.



*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 3.34** End Feed Units: Product Numbers)

A meter and accessory can not be on the same lid.



END FEED UNITS: ACCESSORIES

IR WINDOWS

Starline Track Busway Polymer IR Window systems use a proprietary stack-up of advanced materials to ensure highest levels of safety and optimal infrared thermography of critical connections.

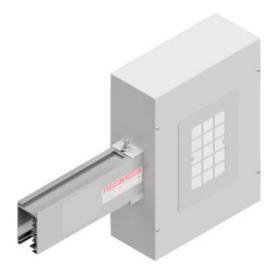
When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

Safely and accurately scan connection points while the system is under load, without exposing the operator to live connections.

Notes: All Series-S End Feeds are offered with pre-installed hangers and gland plates.

FEATURES & BENEFITS

- Allows for safe IR scanning without powering down busway
- Complete system coverage with IR windows for plug-in units and end feeds
- End feed IR windows designed in 2 sizes for optimized viewing angles
- Cost effective design allows for quick end user ROI
- ETL Listed, CE Marked
- Lower TCO
- Enhanced safety
- Effective preventative maintenance



Note: Rectangular IR window option not available for Series-S systems. See S3 end feed accessories package for more information.

IR transmissive polymer, UL 94B HB Rated
Stainless Steel 304
Powder Coated Steel or Alu- minum (matched to busway or plug-in unit color)
IP3x (T3); IP54 (S3)
125°C
5" (127mm) x 7" (178mm)
8" (203mm) x 12" (305mm)

(Refer to option 17. M50 Options on **page 3.35** End Feed Units: Product Numbers)

(Refer to option 10. Accessories Package on **page 3.34** End Feed Units: Product Numbers)



END FEED UNITS: PRODUCT NUMBERS



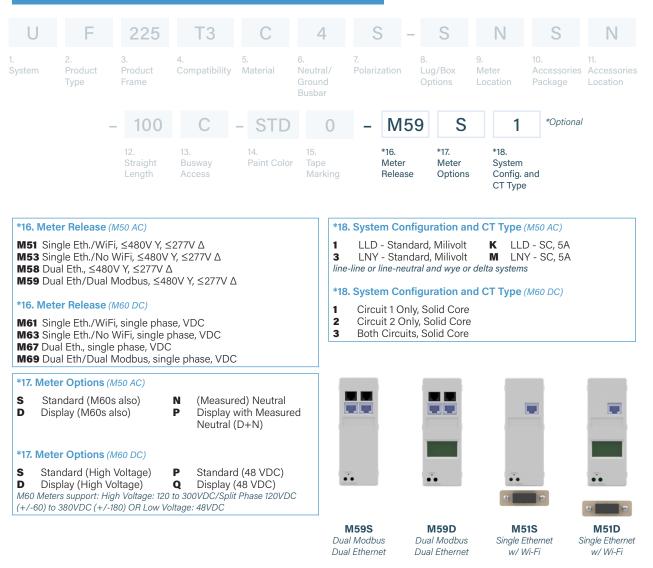
1. System (standard of measure)	10. Accessories Package (optional accessories for feed units)					
U US 2. Product Type (section component)	T3 Options: S Standard G Starline Rect. IR Window, 5"x7"					
F End Feed	C IR Window - Circular Seismic Mounting Holes					
3. Product Frame (maximum amperage)	D Seismic with IR Window Circular Q Seismic with IR Window Rectangular					
225 225 amps						
4. Compatibility (frame compatibility)	S3 Options: F S3 Standard (includes hangars and gland plates)					
T3 T3 System S3 S3 System	B S3 Standard + IR Window - Circular					
5. Material (busbar material)	11. Accessories Location (from the terminal, side with accessory)					
C Copper	N None (N/A) R Right					
6. Neutral/Ground Busbar (size of neutral busbar and/or ground)	L Left F Front (consult the factory)					
4 3 Phase plus Neutral	12. Straight Length (length of section)					
7. Polarization (orientation of section for mating purposes)	0100 1 ft. (For other lengths, consult the factory)					
S Standard R Reversed	13. Busway Access					
8. Lug/Box Options (standard/double/bolt lugs and box size)	C Continuous					
 S Standard lugs, Standard box D Double lugs, Standard box D Double lugs, Standard box D Double lugs, Large box 	14. Paint Color (allows painting of the busway housing)					
	STD Factory Mill Finish RED Paint Factory Red BLK Paint Factory Black BLU Paint Factory Blue					
9. Meter Location (from the terminal, side with removable lid; meter must follow lid orientation on large box)	WHT Paint Factory White **RAL (please see page 3.38)					
R Right L Left	15. Tape Marking (colored tape on both sides of busway housing)					
N None (N/A)	0No Tape Marking7Tape Factory Blue3Tape Factory Black8Tape Factory Green4Tape Factory White9Tape Factory Yellow6Tape Factory Red9					

EXAMPLE

UF225T3C4R-DRSN-0100C-BLK0 = US System, End Feed, 225 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Double Lugs, Standard Box, Right Meter Location, Standard Accessory Package, No Accessory Location, 1 foot Straight Length, Continuous Access, Painted Factory Black, No Tape Marking



END FEED METERING: PRODUCT NUMBERS



Note: Series - S end feeds not currently equipped with power monitoring. Consult factory for details.

EXAMPLE

<u>UF225T3C4R-DRSN-0100C-BLK0-M59D1</u> = US System, End Feed, 225 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Double Lugs, Standard Box, Right Meter Location, Standard Accessory Package, No Accessory Location, 1 foot Straight Length, Continuous Access, Painted Factory Black, No Tape Marking, M59 Meter with Display, LLD - Standard, Milivolt

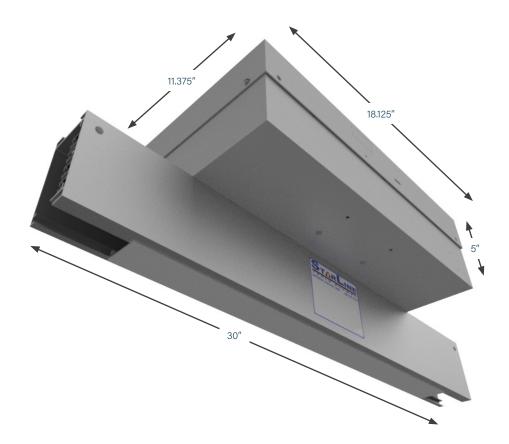


ABOVE FEED UNITS

PRODUCT DESCRIPTION

The above feed power unit comes as a completely pre-wired steel box to the top of a 30 inch section of busway. A connection lug is located inside the box for field termination of supply power cable up to 1/0. This unit is then connected to the end of an adjoining busway section using an installation tool and a joint kit (ordered separately).

Weight 16.5 - 23 lbs





ABOVE FEED UNITS: PRODUCT NUMBERS

U	А	225	Т3	С	4	S	5	-	S	1	N	S	Ν
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polariz	zation		ug/Box ptions	9. Meter Locat		10. Accessories Package	11. Accessories Location
-	0206	С	015	- STD	0	-	M	59	S		1	*Optional	1
	12. Straight Length	13. Busway Access	14. Feed Location	15. Paint Color	16. Tape Marking		*17. Meter Releas	e	*18. Meter Options	S	19. ystem (nd CT T		
1. Systen U US	n (standard of	measure)				Straig 06 2 fe		· · ·	(length of s	ection))		
	ct Type (sect	ion componer	nt)			Buswa		ess ((how plugs	access	s the bu	sway)	
3. Produ 225 225	ct Frame (ma amps	aximum ampe	rage)						ocation of t ther length			e top feed) actory)	
T3 T3	atibility (fram System al (busbar ma		y) S3 S3 Syste	m	15. STI	D Fa	ctory N	Лill F	s <i>painting</i> inish Black	of the L RED BLU	Pain	<i>housing)</i> t Factory Re t Factory Bl	

- compatibility (name compatibility)	15. Paint Color (allows painting of the busway housing)					
T3 T3 System S3 S3 System	STD Factory Mill Finish RED Paint Factory Red					
5. Material (busbar material)	BLK Paint Factory Black BLU Paint Factory Blue WHT Paint Factory White **RAL (please see page 3.38)					
C Copper	NOTE: All Above Feed enclosures are painted. "STD Factory Mill					
6. Neutral/Ground Busbar (size of neutral busbar and/or ground)	Finish" represents painted standard silver.					
4 3 Phase plus Neutral	16. Tape Marking (colored tape on both sides of busway housing)					
7. Polarization (orientation of section for mating purposes) S Standard R Reversed 8. Lug/Box Options (standard/double/bolt lugs and box size)	0No Tape Marking7Tape Factory Blue3Tape Factory Black8Tape Factory Green4Tape Factory White9Tape Factory Yellow6Tape Factory Red9Tape Factory Yellow					
S Standard lugs, Standard box L Standard lugs, Large box	*17. Meter Release (M50 Series Meters)					
9. Meter Location (from the terminal, side with removable lid; meter must follow lid orientation on large box)	M51 Single Eth./WiFi, ≤480V Y, ≤277V Δ M53 Single Eth./No WiFi, ≤480V Y, ≤277V Δ					
R Right L Left N None (N/A)	M58 Dual Eth., ≤480V Y, ≤277V Δ M59 Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ					
10. Accessories Package (optional accessories for feed units)	*18. Meter Options (choose from a 4.1" display, measured neutral, audible alarm and/or a temperature monitor)					
 S Standard 11. Accessories Location (from the terminal, side with removable lid) 	SStandard (M60s also)N(Measured) Neutral)DDisplay (M60s also)PProfessional (D+N)					
NNone (N/A)RRightARearLLeftTTopFFront	*19. System Configuration and CT Type (line-line or line-neutral and wye or delta systems)					
	 LLD - Standard, Milivolt LNY - Standard, Milivolt LNY - Standard, Milivolt LNY - SC, 5A 					

EXAMPLE

<u>UA225T3C4R-SNSN-0206C015-STD0</u> = US System, Above Feed, 225 amps, T3 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, No Meter Location, Standard Accessory Package, No Accessory Location, 2 foot 6 inch Straight Length, Continuous Access, 15 inch Feed Location, Factory Mill Finish, No Tape Marking



T3 SERIES

RAL COLORS

1ST CHARACTER					
Р	Paint				

2ND CHA	RACTER
0	100
1	101
2	102
3	103
4	200
5	201
Α	300
В	301
С	302
D	303
Е	400
F	401
G	500
н	501
J	502
К	600
L	601
М	602
Ν	603
Р	700
Q	701
R	702
S	703
т	704
U	800
V	801
W	802
х	900
Υ	901
Z	902

3RD CHA	RACTER
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

4TH CHARACTER0

EXAMPLE:

P B 2 0 = Paint RAL 3012



T3 SERIES

ACCESSORIES: SUPPORT HARDWARE

THREADED ROD For mounting to 3/8 - 16 threaded rod. Can be inserted anywhere along the top full-access slot of busway. Hanger support is required every 10 feet maximum.	Part Number UBRH-1 Available in plain zinc or black (-BLK) Weight .3 lb	3/8" rod coupler
SEISMIC THREADED ROD For mounting to 3/8 - 16 threaded rod. Can be inserted anywhere along the top full-access slot of busway, and includes a seismic brace. Hangers are required every 5 feet maximum for seismic support.	Part Number UBRH-3 Available in plain zinc or black (-BLK) Weight .3 lb	3/8" rod coupler
STANDARD For mounting to strut or other flat surfaces. Twist-in design allows inserting anywhere along the top full-access slot on the busway. Hanger support is required every 10 feet maximum.	Part Number UBH-1 Available in plain zinc or black (-BLK) Weight .2 lb	3/8" Stud
• WEIGHT HOOK Can be used as a hanger to suspend the busway from chains or cables. Can also be used to hang loads up to 100 pounds under the busway, such as light fixtures, tools and balancers.	Part Number SWHRT3 Available in plain zinc Weight .2 lb	C C
 RECESSED SUSPENDED CEILINGS For hanging busway into a recessed ceiling. *Hanger bolt must be ordered separately **Busway must sit slightly below the surface of the ceiling in order to install plug in units. 	Part Number SRMT3-1 Available in plain zinc	



T3 SERIES

ACCESSORIES: SUPPORT HARDWARE

RAISED ACCESS FLOOR

For mounting the busway vertically (with access slot facing down) for under floor applications. Pedestal not included.

Part Number URFBT3-1 *UBH-1 comes included Available in plain zinc or black (-BLK)

Part Number

WMBT5-9

Part Number

URFBT3-2



WALL MOUNT BRACKET

For mounting to walls, using standard hangers. Hanger support is required everything 3 meters maximum.

Note: All S3 Systems must be mounted in the standard vertical orientation.

RAISED MOUNTING BRACKET

For mounting the busway horizontally (with access slot facing to the side) for under floor applications. Pedestal not included.

Note: Not available for S3 systems

SIDE MOUNT BRACKETS

Mounted to vertical supports. Vertical supports not included, only bracket.

Note: Not available for S3 systems

Mounted to overhead supports

Note: Not available for S3 systems

Available in plain zinc or black (-BLK) Weight .2 lb

Part Number UBSS-1 Available in plain zinc or black (-BLK) Weight



Part Number **UBH-T3-SIDE** Available in plain zinc or black (-BLK) Weight 1.31 lb

.2 lb









ACCESSORIES: SUPPORT HARDWARE

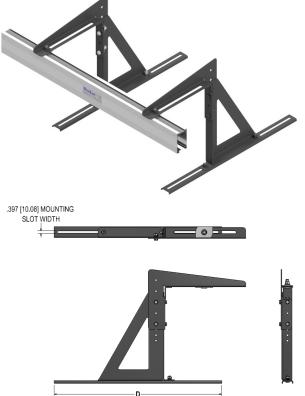
PRODUCT DESCRIPTION

UNIVERSAL SERVER CABINET MOUNTING BRACKETS

The Universal Server Cabinet Mounting Brackets are designed with generous 3/8 inch wide through slots to mount directly onto virtually any server cabinet.

These accessories quickly and easily provide a flexible busway mounting solution on top of server cabinets, eliminating the need for threaded rod and strut support from the ceiling.

The brackets are adjustable in height, can be ordered in virtually any color, and can be positioned at any depth on the server cabinet. Moreover, they can accommodate up to (2) runs of busway. Hanger Bolt Included – UBH-1



	MATERIAL						
	Galvanneal Steel						
	HEIGHT						
>	17.68 in Min 23.75 in Max Maximum Spacing: Every 10 ft per run						
	C: Color (1, 3, 4, 6, 7) Anodized Silver Black White *consult factory for custom colors						
	Part Number U.S: UUSCMB-(X)-(D)-(C)						
	X = System (T3) D = Depth (30", 36", 42", 48" or custom length) C = Color (1, 3, 4, 6, 7)						
	EXAMPLES						
	<u>UUSCMB-T3-36-4</u> = US, Universal Server Cabinet Mounting Bracket, T3 System, 36 inch Depth, White						
Ļ	UUSCMB-T3-42-3 = US, Universal Server Cabinet Mounting Bracket, T3 System, 42 inch Depth, Black						

ACCESSORIES: CONNECTION HARDWARE

T3 & S3 JOINT KITS

SYSTEM AMPERAGE	NEUTRAL/GROUNDBAR OPTION	T3 SERIES CATALOG #	S3 SERIES CATALOG #
100	3 Phase plus Neutral	SJK100T3	SJK100S3
100	3 Phase plus Neutral plus Internal Ground Conductor	SJK100T3G	SJK100S3G
100	3 Phase plus 200% Neutral	SJK100T3N	SJK100S3N
100	3 Phase plus 200% Neutral plus Internal Ground Conductor	SJK100T3F	SJK100S3F
225	3 Phase plus Neutral	SJK225T3	SJK225S3

T3 JOINT KIT

For the connection of adjacent busway sections. One kit is required at each joint. Each kit is comprised of a housing coupler pair and bus connector set.

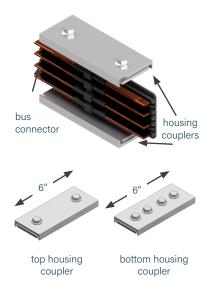
Bus Connector: copper blades secured to an insulating mounting plate. This makes the electrical connection between sections.

Housing Couplers: consists of two 12-screw couplers - one for the top and one for the bottom of busway. These make the mechanical connection between busway sections.

*Installation tool is required (see below)

**Available in all standard and RAL colors

T3 Joint Kit components



S3 JOINT KIT

For the connection of adjacent busway sections. One kit is required at each joint. Each kit is comprised of a housing coupler pair and bus connector set, joint seal and two joint covers.

Bus Connector: copper blades secured to an insulating mounting plate. This makes the electrical connection between sections.

Housing Couplers: consists of two 12-screw couplers - one for the top and one for the bottom of busway. These make the mechanical connection between busway sections.

Joint Seal: Plastic sealing component installed between two housings at joint prior to bus connector and coupler installation.

Joint Covers: Plastic sealing cover fitted over top of housing coupler after coupler installation.

**Installation tool is required (see below)*

S3 Joint Kit components



Includes: Couple Covers, Top and Bottom Housing Couplers, Joint Seal and Bus Connector

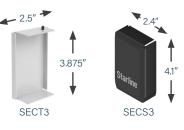


ACCESSORIES: CONNECTION HARDWARE

END CAP

For covering the end of 100T3, 100S3, 225T3, or 225S3 busway.

SYSTEM	DESCRIPTION	T3 SERIES CATALOG #	S3 SERIES CATALOG #
100	100 Amp End Cap	SECT3	SECS3
250	100 Amp End Cap	SECT3	SECS3



SCST3-1

CLOSURE STRIP

Snaps into bottom access slot of busway housing. The optional closure strip is normally shipped in 10 feet lengths and can be field cut to fit exact desired length. The Closure Strip is offered in both non-conductive plastic material and aluminum.

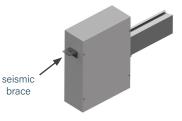
IMPORTANT NOTE: Closure strip is optional for T3 systems, but is required for S3 systems in order to ensure the system meets IP54 ingress protection requirements. Closure strip must be ordered separately.

SYSTEM	AMPERAGE	PART NUMBER	MATERIAL TYPE	REQUIRED
Т3	100-225	SCST3-1	Plastic	Optional
Т3	100-225	SCST3-1-AL	Aluminum	Optional
S3	100-225	SCSS3-1	Aluminum	Yes

END FEED SEISMIC BRACE

For seismic applications, the End Feed Seismic Brace bolts on to the end feed, to be used with threaded rod for gravity hanger.

Part Number SEFB-SIL



SCST3-1-AL

TAP-OFF SEAL ASSEMBLY

For use with Series-S Busway only. The seal assembly (2 pieces) wraps around the enclosure, protecting it from dust and liquid ingress.

*Tap-off Seal Assemblies are already included with each Series-S Plug-in Unit, but may be ordered separately.

PLUG-IN (TAP-OFF) ENCLOSURE	SEAL ASSEMBLY CATALOG #
S1 Enclosure	S3TOU-SEAL-S1-STD
S2 Enclosure	S3TOU-SEAL-S2-STD
S3 Enclosure	S3TOU-SEAL-S3-STD





ACCESSORIES: INSTALLATION TOOL

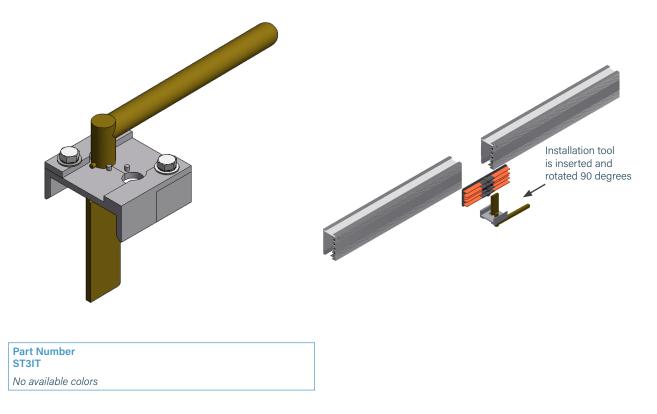
PRODUCT DESCRIPTION

INSTALLATION TOOL

An installation tool is used to install the bus connector between two adjacent sections of busway. A joint kit, which is comprised of two housing couplers and a bus connector set, is required at every joint.

Busway sections are butted together and the top housing coupler is installed. The bus connector is inserted, centered and seated in the slot of the busway. The installation tool is inserted into the jointed intersection and rotated 90 degrees to form a spring-loaded, secure electrical connection. The housing coupler is then positioned over the bottom joint and tightened. Series-S and Track Busway use the same installation tool.

Weight 2.5 lb





SERVICES

Regular servicing of busway systems is crucial for ensuring that your system performs at its best. By conducting regular maintenance, you can identify and address any potential issues before they turn into expensive problems, thus saving you time and money in the long run. Regular servicing can help extend the lifespan of your busway system, ensuring that it meets safety standards and complies with regulations. Choose from various offerings and customize a service plan that works best for you.

WE ARE CURRENTLY OFFERING THE FOLLOWING SERVICES:

COMMISSIONING AND EQUIPMENT RENTALS

Designing a mission-critical facility involves a significant investment of time and money. Through comprehensive commissioning services, Starline can help guarantee your project delivers the outcomes you expect.

Whether you need rental equipment to test your busway system or certified technicians to perform the testing, Starline has you covered. Choose from our inventory of load bank tap-offs and associated gear, or work with a Starline Engineer to customize and perform a commissioning plan to fit your specific needs.

METER SERVICES

Starline's certified technicians make optimizing your meters' performance and functionality a breeze. Our comprehensive on-site meter programming service includes inspecting, programming, reporting, and optional retrofitting services for you existing systems.

STARTUP AND SYSTEM CERTIFICATION

At Starline, we are committed to ensuring the success of your project. Our team understands the risks associated with the energization of systems, which is why we've designed a rigorous certification process to inspect, test and report on your Starline Busway and Critical Power Monitor ("CPM") products. Our certification process proactively identifies and prevents any potential issues before they happen.

To ensure the long-term success of your project, it is crucial to have Starline-certified technicians inspect and validate the installation before full commissioning. Level 2 and 3 commissioning ensures the installation complies with safety requirements and meets factory standards for ongoing reliability.

- Double the length of the standard factory warranty
- Ensure all joint and feed connections are properly installed with continuity testing
- Ensure proper installation of all plug-in units
- · Validate that system will perform to your specified requirements
- Full certification report delivered electronically at conclusion of service

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at **<u>downloads.starlinepower.com/services</u>**.



SERVICES

TURNKEY INSTALLATION SERVICES

Our trained and factory certified Busbar installers are looking forward to completing your next job. You can order your best-in-class power distribution system and leave the rest to us. Our technicians will complete your installation quickly and safely and will reduce your overall TCO by extending your product warranty.

PREVENTATIVE MAINTENANCE PLANS AND IR SCANNING

Although Starline busway is expertly designed to require less maintenance, NETA ATS and MTS guidelines recommend conducting annual inspections and health assessments on all critical equipment. Yearly preventative maintenance helps to ensure your system's long-term reliability and safety.

Starline's FLIR-certified technicians will create a custom preventative maintenance plan for your specific needs. Our certified technicians will work to:

- Identify thermal anomalies
- Extend equipment lifecycle
- Ensure optimal system performance
- Improve facility safety and operational sustainability

Upon completing your preventative maintenance plan, you may be eligible to extend your product warranty.

ON-SITE INSTALLATION SUPPORT

Starline's on-site installation service makes installing your busway as quick and easy as possible.

Our installation support starts with scheduling a preliminary trip to the installation site. During the initial visit, our certified technicians will train your installing contractor and develop a thorough installation and commissioning plan.

After completing the training, your installing contractor will have a direct line of communication with our installation experts. Our experts can help answer questions and provide hands-on guidance when needed.

Opting for Starline's installation support helps mitigate the installation risk and reduces the learning curve typically associated with new installations.

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at **downloads.starlinepower.com/services**.



SERVICES

ON-SITE PRODUCT TRAINING

At Starline, we offer comprehensive on-site product training services facilitated by our team of certified technicians. With their extensive expertise and commitment to upholding our high factory standards, you can confidently rely on them to ensure your and your systems' reliability and operational safety.

Our training programs equip your team with the knowledge and skills necessary to operate and maintain your systems effectively. Through hands-on demonstrations and interactive sessions, our certified technicians will guide your staff in understanding the intricate workings of the products and address any questions or concerns your team may have during the training process.

By choosing our on-site product training services, you are investing in your system's and operations' long-term success

RECERTIFICATION AND EXTENDED WARRANTY PLANS

Starline's recertification and extended warranty options provide best-in-class coverage for all of your Starline products and systems. Our extended warranty plans safeguard your investment beyond the standard warranty timeframe, offering you peace-of-mind while our recertification programs help mitigate risk and downtime. Whether the busway has been installed for years or you are relocating to another building, Starline is here to help.

Choose from one of our flexible one to four-year plans or have your system recertified anytime. Contact your Starline rep for more information.

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at **downloads.starlinepower.com/services**.



T3 PLUG-IN UNITS

METER PLUG/METER BOX UNITS

Any T3 compatible Starline Plug-In Unit that contains only a meter, or any lone box (without paddle head) that includes a meter.



RECEPTACLE BOX/DROP CORD UNITS WITH CLASS CC FUSE

Any T3 compatible Starline Plug-In Unit that contains a receptacle box or drop cord that contains a class CC fuse.

TERMINAL BLOCK UNITS

Any T3 compatible Starline Plug-In Unit that's fully rated to the listed electrical ratings that can accept incoming connections from the end user.



CIRCUIT BREAKER/FUSED DISCONNECT UNITS

Any T3 compatible Starline Plug-In Unit that contains a receptacle and/or drop cord along with circuit breaker(s) or fused disconnect.







SYSTEM & BUILD GUIDE

The below is a suggested list of questions to determine answers to in order to properly build or assemble both Track Busway systems and plugs.

WHEN BUILDING SYSTEMS

- 1. What is the amperage needed for the system? (100, 225, etc..)
- 2. Does the system need an internal ground?
- 3. Are there any limitations on the length of a run? (5ft max, 10ft max, 20ft max, etc...)

WHEN DETERMINING DESIRED PLUG CONFIGURATIONS

1. What type of system is this being used on? (T3)

2. Does the system have an internal ground? If so, does the plug need to be wired Isolated or Dedicated ground/earth?

- 3. What is the fault current needed for the breaker? (10Kaic, 22Kaic, etc...)
- 4. Does the plug need to have drop cords or receptacles?
- 5. What is the device configuration of the connector bodies or receptacles?
- 6. What is your desired MCB configuration? (phase, amperage, poles?)
- 7. Do you require metering?
- 8. How many outlets are needed?
- 9. What is the trip curve needed?
- 10. What MCB brand is preferred?
- 11. What is the voltage required?

METER PLUGS: PRODUCT NUMBERS

U	М	Т3		С	52	S	-	065	
1. System	2. Product Type	3. Compatibi	4. lity Gro	und	5. Box	6. Orientatior	n (7. Current Transformer	
	-	M59	S		1 –	STD	*Opi	tional	
		Meter I	9. Meter Options	*10. Mete Conf	er iguration	11. Paint Color			
I. System (standard of measure)				9. N	/leter Opt	ions (M50 AC)		
U US				SD	Standar Display	d		N (Measured) NeutralP Professional (D+N)	
2. Product Type (section compon	ent)			_				P Professional (D+N)	
M Meter Plug				9. N		ions (M60 DC		P Standard (48 VDC)	
3. Compatibility (frame compatible	lity)			D	D Display (High Voltage) Q Display (48 VDC)				
T3 T3 System								120 to 300 VDC/Split Phase 120 w Voltage: 48 VDC) VDC
 Ground (ground type installed) Case (Housing) Ground 				*10	. Meter Co	onfiguration	(M50	AC)	
5. Box (what size enclosure)				1		er, Delta Solic			
01, 02, 99 (refer to enclosure) 12 and 28 boxes are currently not av 6. Orientation (what direction the S Standard	ailable	- <i>i</i>		3 4 6 7 9 K M	LL powe LN pow LL powe LN pow LL powe	er, Wye Solid er, Delta Split er, Wye Split er, Delta Split	l Core Core Core Core, Core	e, 5A-secondary CT e, 5A-secondary CT e, mV CT	
7. Current Transformer (current i	ating)			*10		onfiguration	,		
065 65 amps 250 250 amps 800 800 amps 1K2 1200 amps	225 225 a 400 400 a 1K0 1000	amps		1 2 3	Circuit 1 Circuit 2	Only, Solid C Only, Solid C cuits, Solid C	Core Core		
**M60 (DC) meters are only available	vith 800 amp o	current transdu	cers	11.	Paint Colo	or			
8. Meter Release (<i>M50 AC</i>) M51 Single Eth./WiFi, ≤480V Y, M53 Single Eth./No WiFi, ≤480 M58 Dual Eth., ≤480V Y, ≤277V M59 Dual Eth/Dual Modbus, ≤4	√ Y, ≤277V Δ Δ			ST BL WH	K Paint	Factory Silve Factory Blacl Factory Whit	<	RED Paint Factory Red BLU Paint Factory Blue **RAL (please see page 3.38)]
8. Meter Release (M60 DC)									
M61 Single Eth./WiFi, single ph M63 Single Eth./No WiFi, single M67 Dual Eth., single phase, VD M69 Dual Eth/Dual Modbus, sin	phase, VDC C								

EXAMPLE

<u>UMT3C52S-065-M59S1-STD</u> = US System, Meter Plug, T3 System, Case Ground, 52 Box, Standard Orientation, 65 Current Rating, M59 Meter, Standard, LL Power, Delta Solid Core, mV CT, Painted Factory Silver

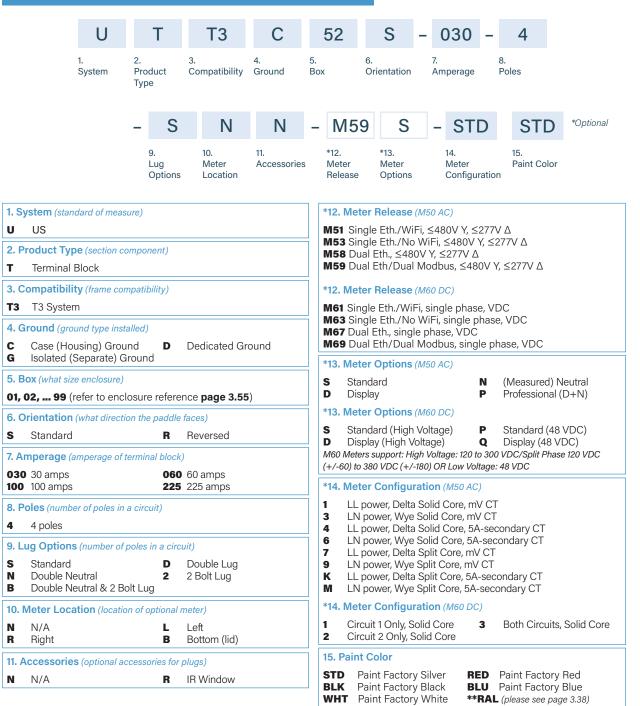
METER BOXES: PRODUCT NUMBERS

	U	D	NL/	`	\sim	50	C		005	
	U	В	NA	4	C	52	S		065	
	1. System	2. Product Type	3. Compatil	4. bility Grou	und	5. Box	6. Orientation		7. Current Transform	er
		-	M59	S		1 –	STD	*Opi	tional	
			3. Vleter Release	9. Meter Options	*10. Mete Con		11. Paint Color			
1. System (standard of	measure)				9.1	Meter Optic	ons (M50 AC)			
U US					S	Standard	1			Measured) Neutral
2. Product Type (sect	tion compone	nt)			D	Display			P P	rofessional (D+N)
B Meter Box							ons (M60 DC)			
3. Compatibility (fram	ne compatibil	ity)			S Standard (High Voltage) P Standard (48 VDC) D Display (High Voltage) Q Display (48 VDC) M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/-60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC					
NA Not Applicable										
 Ground (ground typ) C Case (Housing) 							nfiguration			
5. Box (what size enclowed) 6. Orientation (what of Standard)	sure) enclosure rently not ava	ilable			1 3 4 6 7 9 K M	LN powe LL power LN powe LL power LN powe LL power	r, Delta Solid r, Wye Solid r, Delta Solid r, Wye Solid r, Delta Split r, Wye Split r, Delta Split r, Wye Split	Core Core Core Core Core, Core	e, mV CT e, 5A-sec e, 5A-sec , mV CT , mV CT , 5A-sec	ondary CT ondary CT
7. Current Transform	er (current ra				*10	. Meter Co	nfiguration	(M60	DC)	
065 65 amps 250 250 amps 800 800 amps 1K2 1200 amps	- 1-	225 225 a 400 400 a 1K0 1000	amps ampss	4	1 2 3	Circuit 2	Only, Solid C Only, Solid C cuits, Solid C	Core		
**M60 (DC) meters are or	-	nth 800 amp c	current transc	lucers		Paint Color				
8. Meter Release (M5 M51 Single Eth./WiF M53 Single Eth./No N M58 Dual Eth., ≤480 M59 Dual Eth/Dual N 8. Meter Release (M6	i, ≤480V Y, WiFi, ≤480V V Y, ≤277V Modbus, ≤4	′ Y, ≤277V Δ Δ			ST BL WI	K Paint F	actory Silver actory Black actory White	(BLU Pa	aint Factory Red aint Factory Blue olease see page 3.38)
M61 Single Eth./WiFi M63 Single Eth./No M67 Dual Eth., single M69 Dual Eth/Dual N	WiFi, single phase, VD	phase, VDC C								

EXAMPLE

UBNAC52S-065-M59S1-STD = US System, Meter Box, Not Applicable, Case Ground, 52 Box, Standard Orientation, 65 Current Rating, M59 Meter, Standard, LL Power, Delta Solid Core, mV CT, Painted Factory Silver

TERMINAL BLOCK UNITS: PRODUCT NUMBERS



EXAMPLE

UTT3C27S-225-4-SBN-M59S3-BLK = US System, Terminal Block, T3 System, Case (Housing) Ground , 27 Box, Standard Orientation, 225 amps, 4 poles, Standard Lugs, Bottom-Located Meter, No Accessories, M59 Meter, Audible Alarm, Painted Factory Black

CIRCUIT BREAKER/FUSED DISCONNECT: PRODUCT NUMBERS

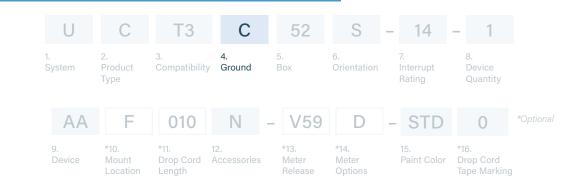
	U	С	Т3	С	52	S	- 14	- 1		
	1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity		
	AA	F	010	Ν	- V59	D	- STD	0	*Optional	
	9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Markin	g	
1. System (s	tandard of meas	sure)			12. Acc	cessories (opi	tional accessorie	es for plugs)		
U US						/A ircuit Breaker	Interleak	F Finger S P Padlock	hroud Adapter for Circu	
2. Product 7	Гуре (section co	omponent)						Breaker		
C Circuit	Breaker Unit	F	Fused Disco	nnect Unit	S S	eismic Hange	r	R IR Wind	0W	
3. Compatik	oility (frame cor	npatibility)			*13. Me	eter Release	(M50 AC)			
T3 T3 Sys	tem						Fi, ≤480V Y, ≤ WiFi, ≤480V \			
4. Ground (g	ground type inst	alled)			V58 D	ual Eth., ≤480)V Y, ≤277V Δ			
	Housing) Grou		Dedicated G	iround		V59 Dual Eth/Dual Modbus, \leq 480V Y, \leq 277V Δ V56 Dual Eth/Dual Modbus, \leq 480V Y, \leq 277V Δ , Breaker Monitoring				
G Isolated	d (Separate) G	iround					er Monitoring			
5. Box (what	size enclosure)				*13 M	eter Release				
01, 02, 99	9 (refer to encl	losure refere	nce page 3.6	6)			Fi, single phas	e VDC		
6. Orientatio	on (what directi	on the paddle	faces)		M63 S	M63 Single Eth./No WiFi, single phase, VDC				
S Standa	Standard R Reversed M67 Dual Eth., single phase, VDC M69 Dual Eth/Dual Modbus, single phase, VDC									
7. Interrupt	Rating (interrup	ot rating of the	e breakers in K)			eter Options				
10, 14, 22, 2	25, 30, 35, 50	, 65, CC (C	C = 200,000) (for U.S.)		tandard		N (Macour	ad) Noutral	
8. Device Q	uantity (quanti	ity of device 1)				isplay			ed) Neutral onal (D+N)	
1, 2, 3, 4, 5, page 3.71)	6, 7, 8, 9 (for	more than 1	device type, ı	reference		eter Options	(M60 DC)			
	uantity of device	e 1)			S Standard (High Voltage) P Standard (48 VDC) D Display (High Voltage) Q Display (48 VDC)					
9. Device (qu	7 (vafar ta dau	vice codes pa	ige 3.57)		M60 Me	ters support: Hi	gh Voltage: 120 to 180) OR Low Vol	o 300 VDC/Split		
			sway polarizing	stripe)		nt Color	,			
AA, AB,Z	Location (with	respect to bu	<i>.</i> , .		15. Fall					
AA, AB,Z *10. Mount I F Front		Α	Back		STD	Paint Factor	/ Silver D	D Paint Fac	tory Red	
AA, AB,Z *10. Mount I		· _			STD BLK WHT	Paint Factory Paint Factory	/ Black BL		tory Blue	
AA, AB,Z *10. Mount I F Front T Top L Left		A B R	Back Bottom Right		BLK WHT	Paint Factory Paint Factory	/ Black BL / White **		tory Blue	
AA, AB,Z *10. Mount I F Front T Top L Left *11. Drop Co	Location (with	A B R cation of optic	Back Bottom Right nal meter)		BLK WHT 16. Dro	Paint Factory Paint Factory P Cord Tape	/ Black BI / White ** Marking	.U Paint Fac RAL (please se	ctory Blue <i>pe page 3.38)</i>	
AA, AB,Z *10. Mount I F Front T Top L Left *11. Drop Co XXY: XX = fe (only can be cf	Location (with	A B R cation of optic (010 = 1 foot ments)	Back Bottom Right <i>nal meter)</i> c, 0 inches)		BLK WHT 16. Dro 3 Tap	Paint Factory Paint Factory	/ Black BI / White ** Marking uck 7	.U Paint Fac	etory Blue <i>e page 3.38)</i> y Blue	

EXAMPLE

UCT3D28S-50-2BCB010N-V59D-STD = US System, Circuit Breaker Unit, T3 System, Dedicated Ground, 28 Box, Standard Orientation, 50 kA Interrupt Rating-2 Devices, 6-20C, Bottom Located, 12 inch Long Drop Cord, No Accessories- V59 Meter, with Display, Painted Factory Silver



CIRCUIT BREAKER/FUSED DISCONNECT: GROUND



ISOLATED GROUND/EARTH

Orange receptacles in plugs. Case

ground isolated from copper ground

bar. Isolated ground carried back to

4. 0	Ground (ground type installed)		
С	Case (Housing) Ground	D	Dedicated Ground
G	Isolated (Separate) Ground		

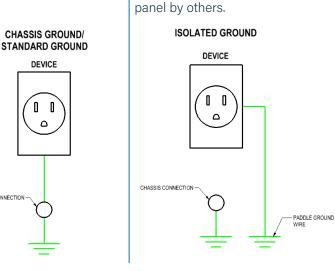
IN OPTION 4. you are asked to specify what type of ground you would like: case, dedicated or isolated. Parts affected by grounding are the plug paddle (ground paddles have a fifth stab).

CASE GROUND/CHASSIS EARTH

Uses aluminum housing and no extra copper bar.

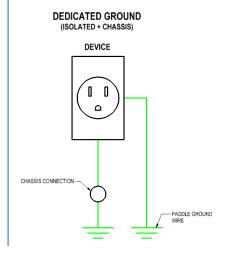
۵

CHASSIS CONNECTION



DEDICATED GROUND/EARTH

Extra bar in busway for ground. Everything tied together inside plugs. Bar and housing at same potential.



*For further details about Dedicated Ground vs. Isolated Ground, please reference our "Isolated Ground vs. Dedicated Ground" tech brief on downloads.starlinepower.com/starline/busway



CIRCUIT BREAKER/FUSED DISCONNECT: BOX



5. Box (what size enclosure)01, 02, ... 99 (refer to enclosure reference page 3.66)

IN OPTION 5. you are asked to specify what size and style enclosure that you would like. A few common enclosure sizes for T3 busway systems are shown below:



*For all box sizes and styles, please refer to page 3.66



CIRCUIT BREAKER/FUSED DISCONNECT: INTERRUPT RATING



7. Interrupt Rating (interrupt rating of the breakers in K)
10, 14, 22, 25, 30, 35, 50, 65, CC (CC = 200,000) (for U.S.)

IN OPTION 7. you are asked to specify what the interrupt rating of your protection will be. The breaker used is dependent on voltage, amperage and short-circuit ratings. Different or particular brands may be available upon request. Images of example breakers can be found below.





CIRCUIT BREAKER/FUSED DISCONNECT: DEVICE



9. Device (quantity of device 1) AA, AB, ...ZZ (refer to device codes page 3.71)

StanLin



•••

IN OPTION 9. you are asked to specify what device(s) you would like in your plug. All devices will need to be coded. The catalog number can accommodate up to 3 different types of devicesanything more than that will be handled in the G0 code. If you require more than one type of device, see the example catalog number below:

UCT3C57S-22-2AD-3AB-1ACFN-V59D-STD

If you require a drop cord(s), only one device type can be accommodated in the main catalog number. In addition, drop cord length is only specified if it's the same for all devices. Any additional device types or varying lengths will be handled in the G0 code.





CIRCUIT BREAKER/FUSED DISCONNECT: DEVICE: INDUSTRIAL SPECIFIC

PRODUCT DESCRIPTION

For your convenience, the below display includes a variety of plug-in units that are popularly used in industrialspecific applications. However, these plug configurations are not limited to use in industrial environments.



UCT3C12S-14-1FGB060N-STD 5-20 Receptacle Quad Box 6' Drop Cord UCT3C53S-14-3ABFN-STD (3) 5-20 Duplex Receptacles UCT3C92S-14-1MAB060N-STD-G001 MA = Custom Device Gxxx = Specific Meltric Brand Industrial Connector

*For the full list of all device codes, please refer to page 3.71



CIRCUIT BREAKER/FUSED DISCONNECT: MOUNT LOCATION

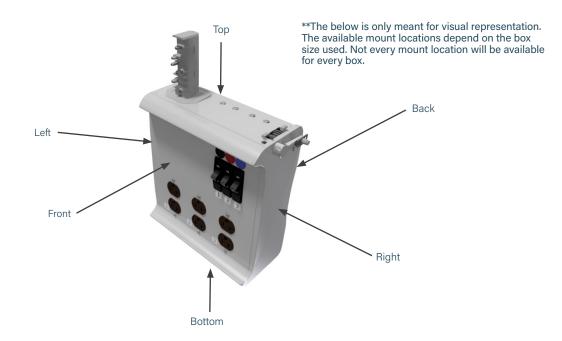


*10. Mount Location (with respect to busway polarizing stripe)								
F T L	Front Top Left	A B R	Back Bottom Right					
			-					

IN OPTION 10. if you are required to specify the devices desired location on the plug.

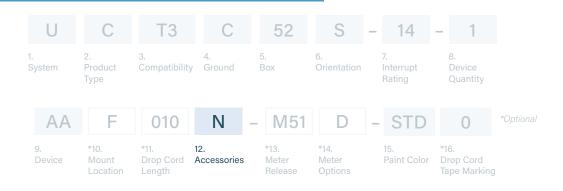
Please see the image below to guide you in selecting your specified mounting location.

*Mount location is only specified if it's the same for all chosen devices. If it is not the same, then it is omitted.





CIRCUIT BREAKER/FUSED DISCONNECT: ACCESSORIES



12. Accessories (optional accessories for plugs)

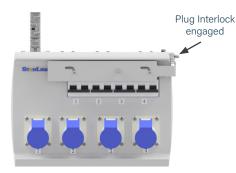
- N N/AC Circuit Breaker Interlock
- S Seismic Hanger
- T NETA Injection Tested Breakers
- Finger Shroud Padlock Adapter for Circuit Breaker
- R IR Window
- L Pilot Light

F

P

IN OPTION 12. you have the option to choose an accessory: The Circuit Breaker prevents disengaging the plug from the busway while the breaker is in the "on" position. The Finger Shroud prevents accidentail on or off contact with the breaker toggle. The Padlock Adapter provides optional protection for locking out breakers. NETA injection testing certifies the breakers will operate as specified in their trip logic. The Pilot Light signals breakers on with a green light. Green light is off in the off/tripped position.

CIRCUIT BREAKER INTERLOCK



PILOT LIGHT



FINGER SHROUD



PADLOCK ADAPTER FOR CIRCUIT BREAKER LOCK-OUT

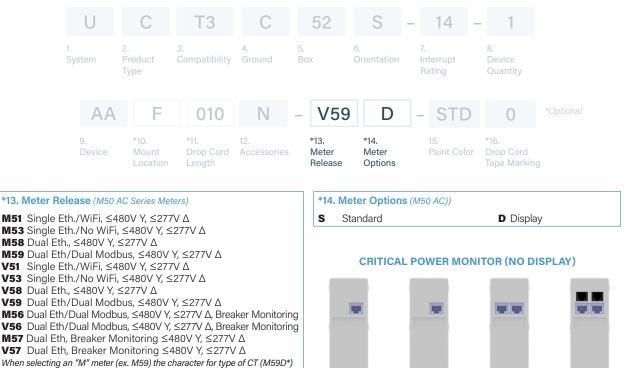


SEISMIC HANGER

IR WINDOW



CIRCUIT BREAKER/FUSED DISCONNECT: (AC ONLY) METER RELEASE



configuration is required in the catalog number.

IN OPTION 13. you are able to select metering for your plug-in unit. M50 and V50 series meters are the best options for plug-in units.

The communication options include:

- Single Ethernet + WiFi
- Single Ethernet
- Dual Ethernet
- Dual Modbus + Dual Ethernet

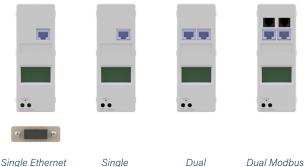
The difference between 'M' and 'V' is that M50 series meters are capable of monitoring the current of the entire unit, and V50 series meters are capable of monitoring up to 6 individual devices limited to 6 solid core Current Transformers (CTs).

Each unit is calibrated for accuracy and is within 0.5% to meet ANSI Revenue Grade Standards.

M/V56 and M/V57 meters also have the capability to sense circuit breaker position (on/off) for up to two outlets.



CRITICAL POWER MONITOR WITH OPTIONAL DISPLAY



w/Wi-Fi M/V51

Ethernet M/V53

Ethernet Dual Ethernet M/V58 M/V59

CIRCUIT BREAKER/FUSED DISCONNECT: (DC ONLY) METER RELEASE



*13. Meter Release (M60 DC Series Meters)

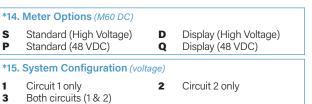
M61/V61 Single Eth./WiFi, single phase, VDC
M63/V63 Single Eth./No WiFi, single phase, VDC
M67/V67 Dual Eth., single phase, VDC
M69/V69 Dual Eth/Dual Modbus, single phase, VDC

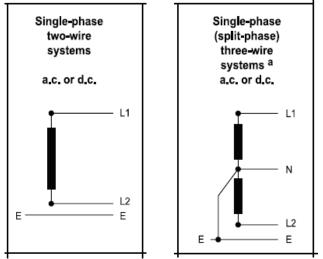
If you've chosen to use direct current (DC) for your Track Busway system, then the DC M60 series meters are a perfect fit. For M60 meters there is a special addition to the catalog number (reference 15. System Configuration). It is important to select your circuit(s) when ordering.

The M60 device utilizes the M50 bezel (shown on previous page) and is capable of measuring up to 4 outlets (circuit 1 or circuit 2). The difference between 'M' and 'V' is that M60 series meters are capable of monitoring the current of the entire unit, and V60 series meters are capable of monitoring up to 4 individual devices.

M60 devices support the following voltages: **High Voltage:** 120-300VDC or split phase 120VDC (+/- 60VDC) to 380VDC (+/- 190VDC) **Low Voltage:** 48 VDC

Each unit is calibrated for accuracy within 1% of energy.





M60 meters are capable of supporting single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380VDC(+/-190VDC).

*12VDC & 24VDC applications are not supported at this time.

^{**}Meter is capable of reporting A to B voltages (as shown above). A to N + B to N voltages will not be reported.

CIRCUIT BREAKER UNITS, NO DEVICES: PRODUCT NUMBERS

		L	J	ר כ	ГЗ	С	5	2	S –	14	-			
		1. Systen	2. n Produ Type	3. ct Comp	4. atibility Gr		5. Box	6. Orie	entation	7. Interrupt Rating				
2	030	3	480	050	5	Ν	-	M59	D	3	-	STD	0	*Optior
8. Circuit Protection Quantity	9. Amperage	10. Poles	11. Voltage	*12. Drop Cord Length	*13. Number of Wires	14. Accessor	ies	15. Meter	16. Meter Options	17. Meter Configura	ation	18. Paint Color	*19. Drop Cord Tape Marking]

1. System (standard of measure)	14. Accessories (optional accessories for plugs)
U US	N N/A F Finger Shroud
2. Product Type (section component)	C Circuit Breaker Interlock P Padlock Adapter for Circui Breaker
C Circuit Breaker Unit F Fused Disconnect Unit	S Seismic Hanger R IR Window
3. Compatibility (frame compatibility)	15. Meter
T3T3 SystemK5T3 System (Limiting Strip)R5T3 System (Rotating Paddle)Z5K5 + R5	M51 Single Eth./WiFi, ≤480V Y, ≤277V Δ M53 Single Eth./No WiFi, ≤480V Y, ≤277V Δ M58 Dual Eth. ≤480V Y, ≤277V Δ
4. Ground (ground type installed)	M59 Dual Eth/Dual Modbus, \leq 480V Y, \leq 277V Δ
 C Case (Housing) Ground D Dedicated Ground G Isolated (Separate) Ground 	 M56 Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ, Breaker Monitoring 16. Meter Options (M50 AC)
5. Box (what size enclosure)	S Standard N (Measured) Neutral
01, 02, 99 (refer to enclosure reference page 3.55)	D Display P Professional (D+N)
6. Orientation (what direction the paddle faces)	*16. Meter Options (M60 DC)
S Standard R Reversed	SStandard (High Voltage)PStandard (48 VDC)DDisplay (High Voltage)QDisplay (48 VDC)
7. Interrupt Rating (interrupt rating of the breakers in K)	M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/
10, 14, 22, 25, 30, 35, 50, 65, CC (CC = 200,000) (for US)	60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC
8. Circuit Protection Quantity	*17. Meter Configuration
1, 2, 3, 4, 5, 6	1 LL power, Delta Solid Core, mV CT 3 LN power, Wye Solid Core, mV CT
9. Amperage	 4 LL power, Delta Solid Core, 5A-secondary CT 6 LN power, Wye Solid Core, 5A-secondary CT
015, 020, 030, 600	7 LL power, Delta Split Core, mV CT
10. Poles (number of poles in a circuit)	 9 LN power, Wye Split Core, mV CT K LL power, Delta Split Core, 5A-secondary CT
1, 2, 3, 4, 5	M LN power, Wye Split Core, 5A-secondary CT
11. Voltage	*14. Meter Configuration (M60 DC)
120, 240, 277, 300, 415, 480, 600	1 Circuit 1 Only, Solid Core 3 Both Circuits, Solid Core 2 Circuit 2 Only, Solid Core 3 Both Circuits, Solid Core
*12. Drop Cord Length (length of drop cord)	
010 1 foot XXY XX=feet, Y=inches (only can be chosen in 6" increments) For any device configuration chosen over 70 amps, the max. drop cord length is 10 feet (100)	17. Paint Color STD Paint Factory Silver BLK Paint Factory Black WHT Paint Factory White RED Paint Factory Red BLU Paint Factory Blue **RAL (please see page 3.38)
*13. Number of Wires (M50 AC)	18. Drop Cord Tape Marking
2, 3, 4, 5	3 Black 6 Red 8 Green
EXAMPLE	4 White 7 Blue

UCT5D57S-25-203034800505N-M59D3-*STD0 = US System, Circuit Breaker Only Unit, T5 system, Dedicated Ground, 57 box, Standard orientation, 25kA interrupt rating, 2 circuits, 30 amps, 3 poles, 480v, 5 ft drop cord, 5 wires, no accessories, M59 meter, painted factory silver, no drop cord tape marking

CORI	DED ME	TERS											
	U	ССРМ	N	/I	51		S		1	- 1	L515	С	
	1. System	2. Product Type		4. nitoring Meter pabilities Features			5. Meter Variations		6. System Voltage	D	liring evice or ord Set	8. Device Styl	e
			- 2	XXX	× –	С	ь г	-	BLK				
				ength (end end)		10. Meter Locatio the Cor			I1. Paint Color				
1. System U US	(standard of mea	sure)				6. 1			Voltage _ine		3	Line-Neu	ıtral
	t Type (section of orded CPM	component)					7. Wiring Device or Cord Set Options listed on page 3.65						
	ring Compatibi Ile/Feed Monito					С		onne	ector Body		R	Receptac	
4. Meter Features51Single Ethernet WiFi58Dual Ethernet59Dual Ethernet, Modbus				9.	D Duplex Q Quad Receptacle 9. Length (end to end) XXXX Length will be selected when ordering. There will always								
5. Meter Variations					be four X's for these characters. (lengths range from 4 to 25 feet in increments of 1 foot)					n 4 to 25 feet in			
S Standard Unit D Display Monitoring: The Corded CPM has a plug on one end			10 C		<mark>er L</mark> ente	.ocation oı r	n the C	Cord T	Тор				

В

Bottom

11. Paint Color

Monitoring: The Corded CPM has a plug on one end and a connector body or receptacle on the other end; making it ideal for field power monitoring on-the-fly. It is capable of monitoring the energy of any device. The Corded CPM is also available without connectors. All M50 meter features, communication options and accessories are available except for measured neutral.

Box Size: There are two different Corded CPM box sizes. The smaller is designed for single phase (2 pole/3 wire, 1 pole+N/3W) wiring devices rated from 0-32A & 0-480V. The color is black unless specified. The larger enclosure is designed for all other configurations. These include single phase (2 pole/3 wire) rated at 32A-63A & 0-480V, three phase delta (3 pole/4 wire) rated at 0-63A & 0-480V and three phase wye (4 pole/5 wire) rated at 0-63A & 0-480V.

Meter Location: The meter can be placed in the center or offset from the top or bottom of the cord. Top or Bottom meters will always be 1'8" from the end of the connector.



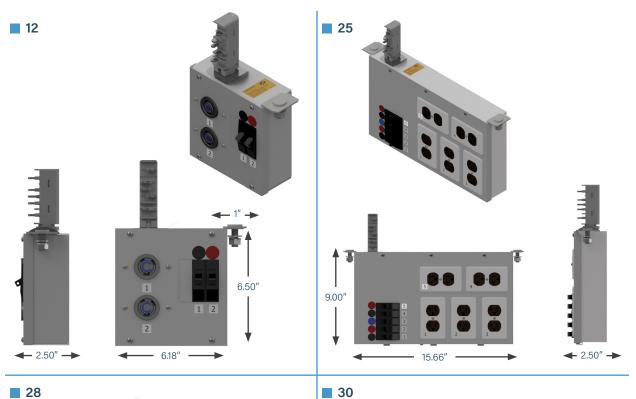


WIRING DEVICE/CORD SET OPTIONS

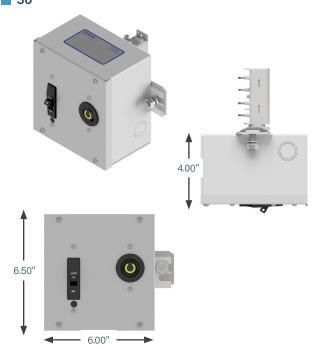
AC NEMA/IEC NAME	VOLTAGE	CURRENT	AC NEMA/IEC NAME	VOLTAGE	CURRENT
CS6360C	125V	50	420C12W	125/250V	20
CS6364C	125/250V	50	430C12W	125/250V	30
CS8264C	250V	50	460C12W	125/250V	60
CS8364C	250V	50	320C6W	250V	20
CS8164C	480V	50	330C6W	250V	30
CS8464C	480V	50	360C6W	250V	60
515D	125V	15	320C5W	277V	20
515	125V	15	330C5W	277V	30
520D	125V	20	360C5W	277V	60
520	125V	20	416C4S	110V	16
530	125V	30	432C4S	110V	32
615D	250V	15	463C4S	110V	63
615	250V	15	416C9S	230V	16
620D	250V	20	432C9S	230V	32
620	250V	20	463C9S	230V	63
630	250V	30	420C9S	250V	20
L1420	125/250V	20	430C9S	250V	30
L1420	125/250V	30	460C9S	250V	60
L1520	250V	20	416C6S	415V	16
L1530	250V	30	432C6S	415V	32
L1620	480V	20	463C6S	415V	63
L1620	480V 480V	30	403C03 420C7S	415V 480V	20
L2120	120/208V	20	430C7S	480V 480V	30
L2120	120/208V	30	450C7S	480V 480V	60
L2220	277/480V	20	516C6S	480V 230/400V	16
		30			
L2230	277/480V	20	532C6S	230/400V	32 63
L2320	347/600V		563C6S	230/400V	
L2330	347/600V	30	316C9S	415V	16
L515	125V	15	332C9S	415V	32
L520	125V	20	363C9S	415V	63
L530	125V	30	520C7S	277/480V	20
L615	250V	15	530C7S	277/480V	30
L620	250V	20	560C7S	277/480V	60
L630	250V	30	320C7W	480V	20
L715	277V	15	330C7W	480V	30
L720	277V	20	360C7W	480V	60
L730	277V	30	15A-300V	300V	15
L820	480V	20	16A-300V	300V	16
L830	480V	30	20A-300V	300V	20
316C4S	110V	16	30A-300V	300V	30
332C4S	110V	32	32A-300V	300V	32
363C4S	110V	63	50A-300V	300V	50
320C4S	125V	20	60A-300V	300V	60
330C4S	125V	30	63A-300V	300V	63
360C4S	125V	60	15A-480V	480V	15
520C9W	120/208V	20	16A-480V	480V	16
530C9W	120/208V	30	20A-480V	480V	20
560C9W	120/208V	60	30A-480V	480V	30
316C6S	230V	16	32A-480V	480V	32
332C6S	230V	32	50A-480V	480V	50
363C6S	230V	63	60A-480V	480V	60



BOX SIZES & STYLES

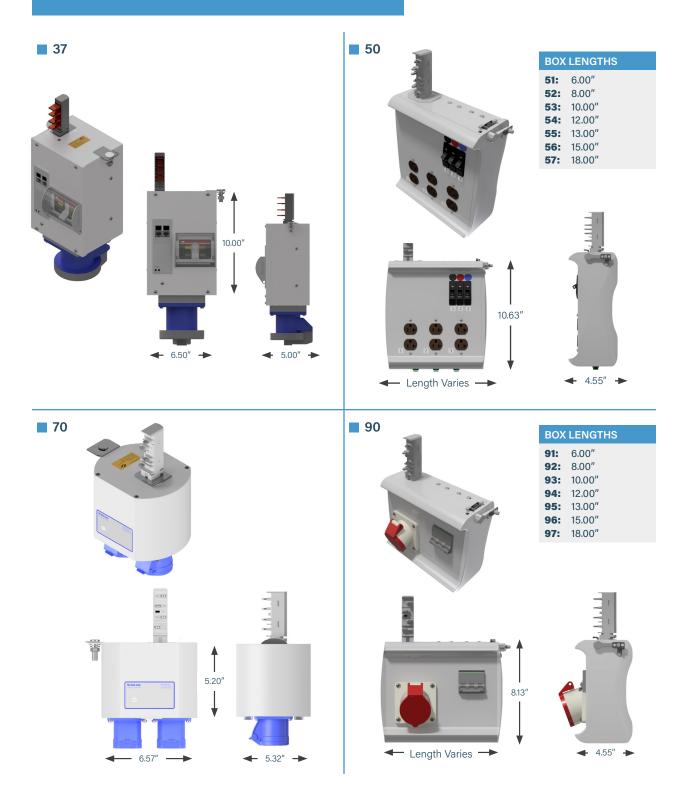








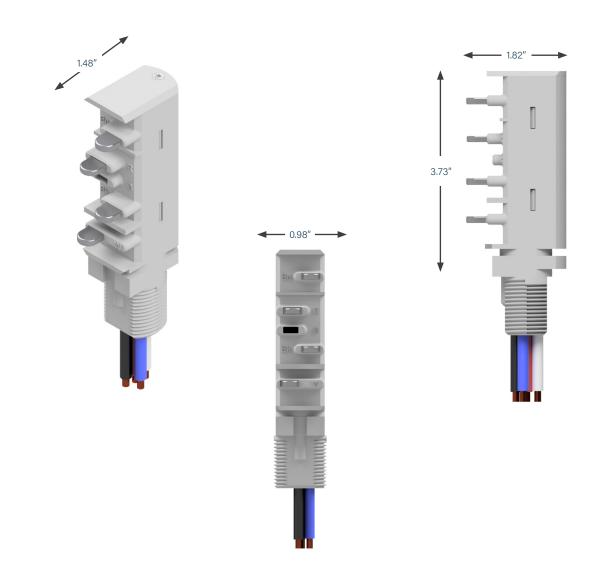
BOX SIZES & STYLES





BOX SIZES & STYLES

T3 PADDLE





50 SERIES ENCLOSURE CUT SHEET

PRODUCT DESCRIPTION

Next-generation, custom engineered enclosure that features a stylish exterior combined with a spacious interior and customizable body length to accommodate a wide variety of applications. The 50 Series enclosure is designed to tap off power from the busway. The option is available to have a reverse paddle such that the enclosure faces in the opposite direction when in the busway.

- Configurable unit length for multiple circuit breaker pole positions.
- Consult factory for possible combinations*



BOX	BOX LENGTHS				
51:	6.00"				
52:	8.00"				
53:	10.00"				
54:	12.00"				
55:	13.00″				
56:	15.00"				
57:	18.00″				

EXAMPLES

UCT3C54S-22-2ACFN-STD = US System, Circuit Breaker Plug, T3 System, Case (Housing) Ground, 54 Box, Standard Orientation, 22 Interrupt Rating, 2 Devices, L21-30, Front Located, No Accessories, PPG Anodized Silver

UCT3G53S-10-2EMFN-STD = US System, Circuit Breaker Plug, T3 System, Isolated (Separate) Ground, 53 Box, Standard Orientation, 10 Interrupt Rating, 2 Devices, IGL15-30, Front Located, No Accessories, PPG Anodized Silver

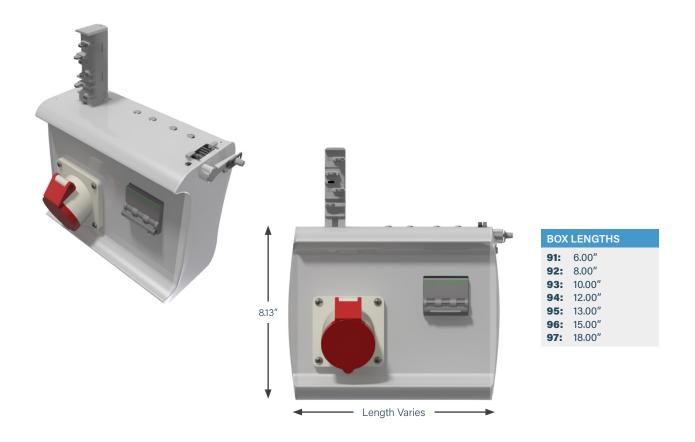


90 SERIES ENCLOSURE CUT SHEET

PRODUCT DESCRIPTION

Next-generation, custom engineered enclosure that features a stylish exterior combined with a spacious interior and customizable body length to accommodate a wide variety of applications. The 90 Series enclosure is designed to tap off power from the busway. The option is available to have a reverse paddle such that the enclosure faces in the opposite direction when in the busway.

- Configurable unit length for multiple circuit breaker pole positions.
- Consult factory for possible combinations*



EXAMPLES

<u>UCT3C93S-50-1AKFN-STD</u> = US System, Circuit Breaker Plug, T3 System, Case (Housing) Ground, 93 Box, Standard Orientation, 50 Interrupt Rating, 1 Device, CS8369, Front Located, No Accessories, PPG Anodized Silver

<u>UCT3C94S-10-2BGB050F-STD</u> = US System, Circuit Breaker Plug, T3 System, Case (Housing) Ground, 94 Box, Standard Orientation, 10 Interrupt Rating, 2 Devices, I6-30, Bottom Located, 5 foot Drop Cord, Finger Shroud, PPG Anodized SilverIGL15-30, Front Located, No Accessories, PPG Anodized Silver



US DEVICE CODE TABLE

	NEM	IA Connectors		
Device Code	Device Designation	Туре	Voltage	Wiring Configuration
BS	5-15C	Connector	120	1PNG
FF	5-15Q-X	Connector	120	1PNG
BD	5-20C	Connector	120	1PNG
FG	5-20-Q-X	Connector	120	1PNG
BB	6-15C	Connector	240	2PG
FH	6-15Q-X	Connector	240	2PG
BC	6-20C	Connector	240	2PG
FI	6-20Q-X	Connector	240	2PG
со	L14-20C	Connector	120/208	2PNG
CN	L14-30C	Connector	120/208	2PNG
СМ	L15-20C	Connector	240	3PG
CL	L15-30C	Connector	240	3PG
CE	L16-20C	Connector	480	3PG
CD	L16-30C	Connector	480	3PG
CS	L21-20C	Connector	120/208	3PNG
СТ	L21-30C	Connector	120/208	3PNG
FA	L22-20C	Connector	277/480	3PNG
EZ	L22-30C	Connector	277/480	3PNG
BR	L5-15C	Connector	120	1PNG
BE	L5-20C	Connector	120	1PNG
BF	L5-30C	Connector	120	1PNG
BA	L6-15C	Connector	240	2PG
BH	L6-20C	Connector	240	2PG
BG	L6-30C	Connector	240	2PG
СК	L7-15C	Connector	277	1PNG
CJ	L7-20C	Connector	277	1PNG
CF	L7-30C	Connector	277	1PNG

- 1 = Number of poles
- P = Poles
- N = Neutral
- G = Ground

	Pin & Sleeve Connectors										
Device Code	Device Designation	Туре	Voltage	Wiring Configuration							
BJ	360C6W	Connector	240	2PG							
BQ	420C6W	Connector	240	2PNG							
BW	430C7W	Connector	480	3PG							
BP	430C9W	Connector	240	3PG							
BX	460C7W	Connector	480	3PG							
EJ	460C9S	Connector	240	3PG							
EI	460C9W	Connector	240	3PG							
BZ	520C6S	Connector	240/415	3PNG							
CC	530C6S	Connector	240/415	3PNG							
EX	530C6W	Connector	240/415	3PNG							



US DEVICE CODE TABLE

	Pin & Sleeve Connectors (Continued)										
Device Code	Device Designation	Туре	Voltage	Wiring Configuration							
СН	530C7S	Connector	480	3PNG							
BI	530C9W	Connector	240/415	3PNG							
СВ	560C6S	Connector	240/415	3PNG							
CI	560C7S	Connector	480	3PNG							
EH	560C9W	Connector	120/208	3PNG							
BV	320C6S	Connector	240	2PG							
BU	330C6S	Connector	240	2PG							
BT	360C6S	Connector	240	2PG							
BO	560C9S	Connector	120/208	3PNG							

- 1 = Number of poles
- P = Poles
- N = Neutral
- G = Ground

NEMA Receptacles										
Device Code	Device Designation	Туре	Voltage	Wiring Configuration						
DD	14-20R	Receptacle	120/208	2PNG						
DC	14-30R	Receptacle	120/208	2PNG						
CW	14-50R	Receptacle	120/208	2PNG						
CV	14-60R	Receptacle	120/208	2PNG						
CU	15-20R	Receptacle	240	3PG						
СҮ	15-30R	Receptacle	240	3PG						
DI	15-50R	Receptacle	240	3PG						
DH	15-60R	Receptacle	240	3PG						
AW	5-15D	Receptacle	120	1PNG						
FB	5-15Q	Receptacle	120	1PNG						
DN	5-15R	Receptacle	120	1PNG						
AB	5-20D	Receptacle	120	1PNG						
DL	5-20D-GFI	Receptacle	120	1PNG						
FC	5-20Q	Receptacle	120	1PNG						
DM	5-20R	Receptacle	120	1PNG						
DV	5-30R	Receptacle	120	1PNG						
GB	6-15D	Receptacle	240	2PG						
FD	6-15Q	Receptacle	240	2PG						
DU	6-15R	Receptacle	240	2PG						
GC	6-20D	Receptacle	240	2PG						
FE	6-20Q	Receptacle	240	2PG						
DO	6-20R	Receptacle	240	2PG						
DR	6-30R	Receptacle	240	2PG						
DA	6-50R	Receptacle	240	2PG						
CZ	L14-20R	Receptacle	120/208	2PNG						
DB	L14-30R	Receptacle	120/208	2PNG						
СХ	L15-20R	Receptacle	240	3PG						
AH	L15-30R	Receptacle	240	3PG						
EO	L16-20R	Receptacle	480	3PG						



US DEVICE CODE TABLE

	NEMA Receptacles (Continued)										
Device Code	Device Designation	Туре	Voltage	Wiring Configuration							
EQ	L16-30R	Receptacle	480	3PG							
AT	L21-20R	Receptacle	120/208	3PNG							
AC	L21-30R	Receptacle	120/208	3PNG							
AA	L22-20R	Receptacle	277/480	3PNG							
AF	L22-30R	Receptacle	277/480	3PNG							
AS	L5-15D	Receptacle	120	1PNG							
AP	L5-15R	Receptacle	120	1PNG							
AG	L5-20R	Receptacle	120	1PNG							
AO	L5-30R	Receptacle	120	1PNG							
DP	L6-15D	Receptacle	240	2PG							
DQ	L6-15R	Receptacle	240	2PG							
AI	L6-20R	Receptacle	240	2PG							
AD	L6-30R	Receptacle	240	2PG							
ES	L7-15D	Receptacle	277	1PNG							
ER	L7-15R	Receptacle	277	1PNG							
AQ	L7-20R	Receptacle	277	1PNG							
EP	L7-30R	Receptacle	277	1PNG							

- 1 = Number of poles
- P = Poles
- N = Neutral
- G = Ground

Pin & Sleeve Receptacles										
Device Code	Device Designation	Туре	Voltage	Wiring Configuration						
FJ	316A6S	Receptacle	240/415	2PG						
FK	316A6W	Receptacle	240/415	2PG						
FL	316R6S	Receptacle	240/415	2PG						
FM	320A6S	Receptacle	240/415	2PG						
FN	320A6W	Receptacle	240/415	2PG						
FO	332A6S	Receptacle	240/415	2PG						
FP	332A6W	Receptacle	240/415	2PG						
FQ	332A9S	Receptacle	240/415	2PG						
FR	332R6S	Receptacle	240/415	2PG						
DG	360R6W	Receptacle	240	2PG						
FS	363R6S	Receptacle	240/415	2PG						
DF	430R9W	Receptacle	240	3PG						
AU	460R9S	Receptacle	240	3PG						
AN	460R9W	Receptacle	240	3PG						
FT	5125R6S	Receptacle	240/415	3PNG						
FU	516A6S	Receptacle	240/415	3PNG						
FV	516A6W	Receptacle	240/415	3PNG						
FW	516R6S	Receptacle	240/415	3PNG						
FX	520A6W	Receptacle	240/415	3PNG						
FY	520R6S	Receptacle	240/415	3PNG						
AR	530R6S	Receptacle	240/415	3PNG						
FZ	532A6S	Receptacle	240/415	3PNG						
GA	532A6W	Receptacle	240/415	3PNG						



US DEVICE CODE TABLE

Pin & Sleeve Receptacles (Continued)									
Device Code	Device Designation	Туре	Voltage	Wiring Configuration					
BY	560R6S	Receptacle	240/415	3PNG					
DS	360C4W	Receptacle	120	1PNG					

	Isolated (Ground Recepta	icles	
Device Code	Device Designation	Туре	Voltage	Wiring Configuration
EN	IG14-30R	Receptacle	120/208	2PNG
AX	IG5-20D	Receptacle	120	1PNG
EA	IG5-20R	Receptacle	120	1PNG
DY	IG6-20D	Receptacle	240	2PG
DZ	IG6-20R	Receptacle	240	2PG
EK	IGL14-20R	Receptacle	120/208	2PNG
ET	IGL15-20R	Receptacle	240	3PG
EM	IGL15-30R	Receptacle	240	3PG
EL	IGL21-20R	Receptacle	120/208	3PNG
EG	IGL21-30R	Receptacle	120/208	3PNG
EU	IGL22-20R	Receptacle	277/480	3PNG
EV	IGL22-30R	Receptacle	277/480	3PNG
EB	IGL5-15R	Receptacle	120	1PNG
AY	IGL5-20R	Receptacle	120	1PNG
ED	IGL5-30R	Receptacle	120	1PNG
DW	IGL6-15D	Receptacle	240/415	2PG
DX	IGL6-15R	Receptacle	240/415	2PG
AM	IGL6-20R	Receptacle	240/415	2PG
AZ	IGL6-30R	Receptacle	240/415	2PG

	California Connectors											
Device Code	Device Designation Type Voltage Wiring Configu											
CP	CS6360C	Connector	120	1PNG								
CG	CS8164C	Connector	480	3PG								
CR	CS8264C	Connector	240	2PG								
CQ	CS8364C	Connector	240	3PG								

	California Receptacles											
Device Code	Device Designation	Туре	Voltage	Wiring Configuration								
DK	CS6369	Receptacle	120/208	2PNG								
DE	CS8269	Receptacle	240	2PG								
AK	CS8369	Receptacle	240	3PG								

	Other									
Device Code	Device Designation	Туре	Voltage	Wiring Configuration						
XX	Custom Device (ex: colore	ed receptacle, et	c.)							

- 1 = Number of poles
- P = Poles
- N = Neutral
- G = Ground



S3 PLUG-IN UNITS

PRODUCT DESCRIPTION

S3 Plug-in Units are designed to provide the same "plug and play" flexbility as T3 Plug-in Units, but with added ingress protection. These Plug-In units have been tested and certified to meet the additional IP54 ingress protection levels of the overall system.

OPTIONS:

- 1. Receptacle Box/Drop Cord Units
- 2. Circuit Breaker Uniits Only
- 3. Meter Plugs

GENERAL SPECS:

- Three (3) Standard size enclosures
 - ES1 Up to 3 poles available
 - ES2 Up to 6 poles available
 - ES3 Up to 9 poles available
- Clear cover protects breakers and meter while maintaining status visibility
- UV, Corrosion, and impact-resistant materials
- NEMA & IEC water tight devices available
- Bottom or Front-Mounted receptacles available
- Breaker actuators for floor operability
- Lock-out lids and breaker
- Up to 125A and 600V per box
- Compatible with Starline Critical
 Power Monitors
- Wide range of configuration options

Note: All Series-S Plug-in Units come standard with Tap-off seal assembly. To order separately, please see page 3.43







S3 ENCLOSURE STYLE OPTIONS

ES1 ENCLOSURE

Dimensions(in):

H: 10.5" W: 8" D: 6.36"

Configuration Options:

- Up to 3 Poles
- Up to 3 drop cords
- Meter available
- 1 Bottom-Mounted receptacle

ES2 ENCLOSURE

Dimensions(in):

H: 10.5" W: 11" D: 6.36"

Configuration Options:

- Up to 6 Poles
- Up to 6 drop cords
- Meter available
- 1 Front-Mounted or Bottom-Mounted receptacle

ES3 ENCLOSURE

Dimensions(in):

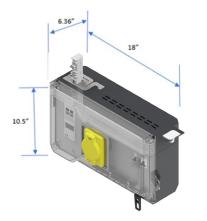
H: 10.5" W: 18" D: 6.36"

Configuration Options:

- Up to 9 Poles
- Up to 8 drop cords
- Meter available
- Up to 2 Front-Mounted receptacles



10.5"





SYSTEM & BUILD GUIDE

The below is a suggested list of questions to determine answers to in order to properly build or assemble both Track Busway systems and plugs.

WHEN BUILDING SYSTEMS

- 1. What is the amperage needed for the system? (100, 225, etc..)
- 2. Does the system need an internal ground?
- 3. Are there any limitations on the length of a run? (5ft max, 10ft max)

WHEN DETERMINING DESIRED PLUG CONFIGURATIONS

1. What type of system is this being used on? (S3)

2. Does the system have an internal ground? If so, does the plug need to be wired Isolated or Dedicated ground/earth?

3. What is the fault current needed for the breaker? (10kAIC, 22kAIC, etc...)

- 4. Does the plug need to have drop cords or receptacles?
- 5. What is the device configuration of the connector bodies or receptacles?
- 6. What is your desired MCB configuration? (phase, amperage, poles?)
- 7. Do you require metering?
- 8. How many outlets are needed?
- 9. What is the trip curve needed?
- 10. What MCB brand is preferred?
- 11. What is the voltage required?

CIRCUIT BREAKER/FUSED DISCONNECT UNITS W/ DEVICES: PRODUCT NUMBERS

	U	С	S3	С	S 3	S	-	14	-	1	
	1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	I	7. Interrupt Rating		8. Device Quantity	
	RU	F	010	Ν	– M51	D]-	STD		0	*Optional
	9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options		15. Paint Color		op Cord oe Markin	g
	ndard of meas	sure)			12. Acce	essories (op	tiona	l accessorie	s for p	olugs)	
J US					N N/	A					
. Product Ty	/pe (section co	omponent)			*13. Met	er Release	(M50) AC)			
Circuit E	Breaker Unit	F	Fused Disco	nnect Unit		ngle Eth./W					
3. Compatibi	lity (frame cor	mpatibility)				gle Eth./No al Eth., ≤48			, 527	7ν Δ	
S3 S3 Syste	em					al Eth/Dual					
I. Ground (gr	ound type inst	alled)				al Eth, Breal					Breaker Monitorin 7V Δ
	ousing) Grou (Separate) G		Dedicated G	iround	*13. Met	ter Release	(M60) DC)			
5. Box (what s	, ,					ngle Eth./W					
	í l	Enclosure St	yle Options, p	ade 376)		ngle Eth./No al Eth., sing			nase,	VDC	
					M69 Du	ial Eth/Dua	l Moo	dbus, singl	e pha	ase, VDC)
6. Orientatio S Standar			Reversed		*14. Me	ter Options	(M50) AC)			
	-	R				indard					ed) Neutral
1 A A A A A A A A A A A A A A A A A A A			e breakers in K)		D Dis	play			Ρ	Professio	onal (D+N)
10, 14, 22, 25	5, 30, 35, 50	, 65, CC (C	C = 200,000) (for U.S.)	*14. Met	ter Options	(M60	DC)			
8. Device Qu	antity (quanti	ity of device 1)				indard (High					(48 VDC)
1, 2, 3, 4, 5, 6 Device Code			vice type, refe	er to S3	M60 Mete	splay (High \ ers support: H 380 VDC (+/	igh Vo	oltage: 120 to	300 1	/DC/Split	48 VDC) Phase 120 VDC
9. Device (qu	antity of device	e 1)				•	100)	CTI LOW VOIL	aye. 4		
AA, AB,Z	Z (refer to S3	Device Cod	e Table, page	3.79)	15. Pain						
*10. Mount L	ocation (with	respect to bu	sway polarizing	stripe)		tandard Da		-	tin-		
F Front		В	Bottom			Consult Fact			แบกร		
*11. Drop Cor	d Length (loo	cation of optio	nal meter)			• Cord Tape • Factory Bl		rking 7	Tan	e Factory	(Blue
XXY: XX = fee (only can be cho ***For any devic	osen in 6″ increi	ments)	, ,		4 Tape	e Factory Bi e Factory W e Factory Re	hite	8 9	Tape	e Factory e Factory e Factory	/ Green

EXAMPLE

UCS3CS3S-22-2QSFN-STD0 = US System, Circuit Breaker Only Unit, S3 System, Case Ground, ES3 Box, Standard Orientation, 22 kA Interrupt Rating, 2 Devices, NEMA L5-15R-IP receptacles, front mount location, no accessories, no meter, standard dark gray color.



US DEVICE CODE TABLE

			NEMA	Connectors	;		
Code	Туре	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
RU	NEMA	5-15C-IP	CONNECTOR	120	15	1PNG	IP67
PV	NEMA	L5-15C-IP	CONNECTOR	120	15	1PNG	IP67
RV	NEMA	6-15C-IP	CONNECTOR	240	15	2PG	IP67
PW	NEMA	L6-15C-IP	CONNECTOR	240	15	2PG	IP67
РХ	NEMA	L7-15C-IP	CONNECTOR	277	15	1PNG	IP67
RW	NEMA	5-20C-IP	CONNECTOR	120	20	1PNG	IP67
PY	NEMA	L5-20C-IP	CONNECTOR	120	20	1PNG	IP67
RX	NEMA	6-20C-IP	CONNECTOR	240	20	2PG	IP67
ΡZ	NEMA	L6-20C-IP	CONNECTOR	240	20	2PG	IP67
QC	NEMA	L15-20C-IP	CONNECTOR	240	20	3PG	IP67
QA	NEMA	L7-20C-IP	CONNECTOR	277	20	1PNG	IP67
QD	NEMA	L16-20C-IP	CONNECTOR	480	20	3PG	IP67
QG	NEMA	L23-20C-IP	CONNECTOR	600	20	3PNG	IP67
QB	NEMA	L14-20C-IP	CONNECTOR	120/208	20	2PNG	IP67
QE	NEMA	L21-20C-IP	CONNECTOR	120/208	20	3PNG	IP67
QF	NEMA	L22-20C-IP	CONNECTOR	277/480	20	3PNG	IP67
QH	NEMA	L5-30C-IP	CONNECTOR	120	30	1PNG	IP67
QI	NEMA	L6-30C-IP	CONNECTOR	240	30	2PG	IP67
QL	NEMA	L15-30C-IP	CONNECTOR	240	30	3PG	IP67
QJ	NEMA	L7-30C-IP	CONNECTOR	277	30	1PNG	IP67
QM	NEMA	L16-30C-IP	CONNECTOR	480	30	3PG	IP67
QN	NEMA	L17-30C-IP	CONNECTOR	600	30	3PG	IP67
QR	NEMA	L23-30C-IP	CONNECTOR	600	30	3PNG	IP67
QK	NEMA	L14-30C-IP	CONNECTOR	120/208	30	2PNG	IP67
QO	NEMA	L18-30C-IP	CONNECTOR	120/208	30	3PG	IP67
QP	NEMA	L21-30C-IP	CONNECTOR	120/208	30	3PNG	IP67
QQ	NEMA	L22-30C-IP	CONNECTOR	277/480	30	3PNG	IP67

WIRING CONFIGURATION REFERENCE TABLE

- P = Poles
- N = Neutral
- G = Ground

^{1 =} Number of poles



US DEVICE CODE TABLE

			Pin & Slee	ve Connec	tors		
Code	Туре	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
SU	IEC	320C7W	CONNECTOR	480	20	2PG	IP67
SY	IEC	420C7W	CONNECTOR	480	20	3PG	IP67
ТА	IEC	320C9W	CONNECTOR	120/208	20	2PG	IP67
SZ	IEC	520C7W	CONNECTOR	277/480	20	3PNG	IP67
sv	IEC	330C7W	CONNECTOR	480	30	2PG	IP67
тв	IEC	330C9W	CONNECTOR	120/208	30	2PG	IP67
SW	IEC	360C7W	CONNECTOR	240	60	2PG	IP67
тс	IEC	360C9W	CONNECTOR	120/208	60	2PG	IP67
SX	IEC	3100C7W	CONNECTOR	480	100	2PG	IP67
TD	IEC	3100C9W	CONNECTOR	120/208	100	2PG	IP67
BI	IEC	530C9W	CONNECTOR	120/208	30	3PNG	IP67
BP	IEC	430C9W	CONNECTOR	250	30	3PG	IP67
BW	IEC	430C7W	CONNECTOR	480	30	3PG	IP67
BX	IEC	460C7W	CONNECTOR	480	60	3PG	IP67
EH	IEC	560C9W	CONNECTOR	120/208	60	3PNG	IP67
EI	IEC	460C9W	CONNECTOR	250	60	3PG	IP67
GI	IEC	4100C9W	CONNECTOR	250	100	3PG	IP67
GJ	IEC	560C7W	CONNECTOR	277/480	60	3PNG	IP67
GK	IEC	530C7W	CONNECTOR	277/480	30	3PNG	IP67
GR	IEC	5100C7W	CONNECTOR	277/480	100	3PNG	IP67
GS	IEC	5100C9W	CONNECTOR	120/208	100	3PNG	IP67
МК	IEC	4100C7W	CONNECTOR	480	100	3PG	IP67
NL	IEC	420C9W	CONNECTOR	250	20	3PG	IP67

WIRING CONFIGURATION **REFERENCE TABLE** 1 = Number of poles

- P = Poles
- N = Neutral
- G = Ground



US DEVICE CODE TABLE

			NEMA F	Receptacles	6		
Code	Туре	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
RQ	Nema	5-15R-IP	RECEPTACLE	120	15	1PNG	IP67
QS	NEMA	L5-15R-IP	RECEPTACLE	120	15	1PNG	IP67
RR	NEMA	6-15R-IP	RECEPTACLE	240	15	2PG	IP67
QT	NEMA	L6-15R-IP	RECEPTACLE	240	15	2PG	IP67
QU	NEMA	L7-15R-IP	RECEPTACLE	277	15	1PNG	IP67
RS	NEMA	5-20R-IP	RECEPTACLE	120	20	1PNG	IP67
QV	NEMA	L5-20R-IP	RECEPTACLE	120	20	1PNG	IP67
RT	NEMA	6-20R-IP	RECEPTACLE	240	20	2PG	IP67
QW	NEMA	L6-20R-IP	RECEPTACLE	240	20	2PG	IP67
QZ	NEMA	L15-20R-IP	RECEPTACLE	240	20	3PG	IP67
QX	NEMA	L7-20R-IP	RECEPTACLE	277	20	1PNG	IP67
RA	NEMA	L16-20R-IP	RECEPTACLE	480	20	3PG	IP67
RD	NEMA	L23-20R-IP	RECEPTACLE	600	20	3PNG	IP67
QY	NEMA	L14-20R-IP	RECEPTACLE	120/208	20	2PNG	IP67
RB	NEMA	L21-20R-IP	RECEPTACLE	120/208	20	3PNG	IP67
RC	NEMA	L22-20R-IP	RECEPTACLE	277/480	20	3PNG	IP67
RE	NEMA	L5-30R-IP	RECEPTACLE	120	30	1PNG	IP67
RF	NEMA	L6-30R-IP	RECEPTACLE	240	30	2PG	IP67
RI	NEMA	L15-30R-IP	RECEPTACLE	240	30	3PG	IP67
RG	NEMA	L7-30R-IP	RECEPTACLE	277	30	1PNG	IP67
RJ	NEMA	L16-30R-IP	RECEPTACLE	480	30	3PG	IP67
RK	NEMA	L17-30R-IP	RECEPTACLE	600	30	3PG	IP67
RN	NEMA	L23-30R-IP	RECEPTACLE	600	30	3PNG	IP67
RH	NEMA	L14-30R-IP	RECEPTACLE	120/208	30	2PNG	IP67
RL	NEMA	L21-30R-IP	RECEPTACLE	120/208	30	3PNG	IP67
RM	NEMA	L22-30R-IP	RECEPTACLE	277/480	30	3PNG	IP67

WIRING CONFIGURATION REFERENCE TABLE

P = Poles

N = Neutral

G = Ground

^{1 =} Number of poles



US DEVICE CODE TABLE

			Pin & Slee	ve Recepta	les		
Code	Туре	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
SN	IEC	420R9W	RECEPTACLE	240	20	3PG	IP67
RY	IEC	320R7W	RECEPTACLE	480	20	2PG	IP67
SC	IEC	420R7W	RECEPTACLE	480	20	3PG	IP67
SQ	IEC	520R9W	RECEPTACLE	120/208	20	3PNG	IP67
SG	IEC	520R7W	RECEPTACLE	277/480	20	3PNG	IP67
RZ	IEC	330R7W	RECEPTACLE	480	30	2PG	IP67
SD	IEC	430R7W	RECEPTACLE	480	30	3PG	IP67
SR	IEC	530R9W	RECEPTACLE	120/208	30	3PNG	IP67
SA	IEC	360R7W	RECEPTACLE	480	60	2PG	IP67
SH	IEC	560R7W	RECEPTACLE	277/480	60	3PNG	IP67
SE	IEC	460R7W	RECEPTACLE	480	60	3PG	IP67
SO	IEC	460R9W	RECEPTACLE	120/208	60	3PG	IP67
SS	IEC	560R9W	RECEPTACLE	120/208	60	3PNG	IP67
SB	IEC	3100R7W	RECEPTACLE	480	100	2PG	IP67
SF	IEC	4100R7W	RECEPTACLE	480	100	3PG	IP67
SP	IEC	4100R9W	RECEPTACLE	120/208	100	3PG	IP67
ST	IEC	5100R9W	RECEPTACLE	120/208	100	3PNG	IP67
SI	IEC	5100R7W	RECEPTACLE	277/480	100	3PNG	IP67

- 1 = Number of poles
- P = Poles
- N = Neutral
- G = Ground

CIRCUIT BREAKER/FUSED DISCONNECT UNITS, NO DEVICES: PRODUCT NUMBERS

		U	С	S	3	C	S2	S	S –	14	4		
		1. System	2. Produc Type	3. t Compa	4. tibility Gro	5. und Box		6. Orient	tation	7. Interru Rating			
2	030	3	240	050	3	Ν	- 1	/159	D	-	STD	0	*Option
8. Circuit Protection Quantity	9. Amperage	10. Poles	11. Voltage	*12. Drop Cord Length	*13. Number of Wires	14. Accessories	15. 8 Me	ter	16. Meter Options		17. Paint Color	18. Drop Cord Tape Marking	g

1. System (standard of measure)	*13. Number of Wires (M50 AC)						
U US	2, 3, 4, 5						
2. Product Type (section component)	14. Accessories (optional accessories for plugs)						
C Circuit Breaker Unit F Fused Disconnect Unit	N N/A						
3. Compatibility (frame compatibility)	15. Meter						
S3 System	M51 Single Eth./WiFi, \leq 480V Y, \leq 277V Δ						
4. Ground (ground type installed)	M53 Single Eth./No WiFi, ≤480V Y, ≤277V Δ M58 Dual Eth, ≤480V Y, ≤277V Δ						
C Case (Housing) GroundD Dedicated GroundG Isolated (Separate) Ground	M59 Dual Eth/Dual Modbus, \leq 480V Y, \leq 277V Δ M56 Dual Eth/Dual Modbus, \leq 480V Y, \leq 277V Δ , Breaker Monitoring						
5. Box (what size enclosure)	16. Meter Options (M50 AC)						
S1, S2, S3 (refer to S3 Enclosure Style Options, page 3.76)	S Standard N (Measured) Neutral						
6. Orientation (what direction the paddle faces)	D Display P Professional (D+N) *16. Meter Options (M60 DC)						
S Standard R Reversed	S Standard (High Voltage) P Standard (48 VDC)						
7. Interrupt Rating (interrupt rating of the breakers in K)	D Display (High Voltage) Q Display (48 VDC) M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/						
10, 14, 22, 25, 30, 35, 50, 65, CC (CC = 200,000) (for US)	60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC						
8. Circuit Protection Quantity	17. Paint Color						
1, 2, 3, 4, 5, 6	STD Standard Dark Gray						
9. Amperage	Note: Consult Factory for other options						
015, 020, 030, 60, 100	18. Drop Cord Tape Marking						
10. Poles (number of poles in a circuit)	3 Black 6 Red 8 Green						
1, 2, 3, 4, 5	4 White 7 Blue						
11. Voltage	7						
120, 240, 277, 300, 415, 480, 600							
*12. Drop Cord Length (length of drop cord)	7						

010 1 foot **XXX**=feet, Y=inches (only can be chosen in 6" increments) For any device configuration chosen

over 70 amps, the max. drop cord length is 10 feet (100)

EXAMPLE

UCS3D57S-25-203032400503N-STD0 = US System, Circuit Breaker Only Unit, S3 system, Case Ground, ES2 Box, Standard Orientation, 14kA interrupt rating, 2 circuits, 30 amps, 3 poles, 240v, 5 ft drop cord, 3 wires, no accessories, no meter, standard dark gray color

METER PLUGS: PRODUCT NUMBERS

	U	М	S3	}	С	Sź	2	S	_	06	5
	1. System	2. Product Type	3. Compatik	4. pility Gro	ound	5. Box		6. Orientatio	n	7. Current Transfor	mer
		-	M59	S		1	-	STD	*Ор	tional	
		I	3. Vleter Release	9. Meter Options	*10. Me Cor		F	1. Paint Color			
. System (standard of	measure)				9.	Meter C	ptio	ons (M50 AC	;)		
U US					S	Stan					(Measured) Neutral Professional (D+N)
2. Product Type (sect	ion compone	nt)				Displ	-			Ρ	Professional (D+N)
M Meter Plug					9. S		÷	o <mark>ns (M60 DC</mark> (High Volt	·	Р	Standard (48 VDC)
3. Compatibility (fram	ne compatibil	ity)			D	Displ	ay (F	High Voltag	je)	Q	Display (48 VDC)
S3 System								DC (+/-180)			00 VDC/Split Phase 120 VDC e: 48 VDC
 Ground (ground typ) Case (Housing) 					*1	0. Meter	Cor	nfiguration	(M50	AC)	
Box (what size enclosed)					1			, Delta Soli r, Wye Solic			
S1, S2, S3 (refer to S	, i i i i i i i i i i i i i i i i i i i	Style Optic	ons, page 3	.76)	4	LL po	ower,	, Delta Soli	d Core	e, 5A-se	econdary CT
6. Orientation (what a	lirection the p	addle faces)			7	LL pc	ower,	, Delta Spli	t Core	, mV Cl	
S Standard		R Reve	rsed		9 K	LL pc	ower,		t Core	, 5A-se	condary CT
7. Current Transform	er (current ra	ating)			м	LN po	ower	r, Wye Split	Core	, 5A-sec	condary CT
065 65 amps 250 250 amps		225 225 a 400 400 a			*1	0. Meter	Cor	nfiguration	(M60	DC)	
BOO 800 amps		1KO 1000			1			Only, Solid (Only, Solid			
IK2 1200 amps **M60 (DC) meters are or	nly available w	ith 800 amp c	urrent transo	lucers	3			uits, Solid (
3. Meter Release (M5	50 AC)				11.	Paint C	olor				
W51 Single Eth./WiF								rd Dark Gra	,		
153 Single Eth./No \ 158 Dual Eth., ≤480` 159 Dual Eth/Dual N	V Y, ≤277V	Δ			N	ote: Con	sult	Factory for	other	option	S
8. Meter Release (M6	60 DC)										
M61 Single Eth./WiF M63 Single Eth./No N M67 Dual Eth., single M69 Dual Eth/Dual N	WiFi, single phase, VD0	phase, VDC C									

EXAMPLE

<u>UMS3CS2S-065-M59S1-STD</u> = US System, Meter Plug, S3 System, Case Ground, ES2 Box, Standard Orientation, 65 Current Rating, M59 Meter, Standard, LL Power, Delta Solid Core, mV CT, Standard Dark Gray



SPECS & INTRODUCTION

INTRODUCTION

Starline is the leader in electrical power distribution in the mission critical, commercial and light industrial applications with Starline Track Busway. This system was designed to meet the rugged specification of the UL857, Busway and Associated Fittings, with the flexible features of track lighting - and is available in systems with 250, 400, 500, 600, 800, 1000 & 1200 amps with case, dedicated or isolated ground.

Track Busway is the simple, versatile, fast and economical solution for supplying power to electrical loads and is unique because the busway can be instantly tapped at any location, with a variety of plug-in units.

The Product Selection Guide was developed to help the design engineer understand and consider all of the options available with Starline Track Busway when designing a system.

This guide is all-inclusive; however, Starline excels at collaborating with design engineers to provide solutions for any application. If you have a need that is not found in this guide, please contact us at **1-800-245-6378** or email us at **info@starlinepower.com**. We will be happy to answer your questions over the telephone or schedule a visit with one of our local representatives.

Also, if viewing this guide in print, please keep in mind that this is a working document. Starline reserves the right to change information and descriptions of listed services and products. The latest version of this guide is available for download at <u>downloads.starlinepower.com/starline/busway/</u>.

SERIES-S SYSTEM

The Series-S System is certified to both IP54 and NEMA 3R ratings, which offers a higher level of protection against ingress of dust, water or other foreign objects. The unique sealed-system design provides the same level of protection across the entire power distribution system, from the power feeds to the busway and plug-in units.

Series-S plug-in units are specifically designed with durable, impact and chemical resistant materials commonly used in UL and outdoor applications. These plug-in units are paired with a wide variety of watertight rated IEC and NEMA devices.

This guide is all-inclusive; however, Starline excels at collaborating with design engineers to provide solutions for any application. If you have a need that is not found in this guide, please contact us at 1-800-245-6378. We will be happy to answer your questions over the telephone or schedule a visit with one of our local representatives.

Also, if viewing this guide in print, please keep in mind that this is a working document. Starline reserves the right to change information and descriptions of listed services and products. The latest version of this guide is available for download at downloads.starlinepower.com/starline/busway/.



SPECS & INTRODUCTION

SPECS

This specification covers the electrical characteristics and general requirements for a track busway system, hereafter referred to as (Track Busway or busway). The system shall be designed primarily for overhead distribution of electrical power; supporting designated work areas and equipment. Once installed the busway will provide a simple, versatile, fast and economic means of distributing power. Loads fed from a variety of plug-in units can be easily added or removed without shutting power down to the busway.

The Track Busway shall be designed and manufactured to the following standards:

1. Underwriters Laboratories Standard, UL 857 — The common UL, CSA, and ANCE Standard for Busways that is derived from the fifth edition of CSA Standard C22.2 No. 27, the twelfth edition of UL 857, and the second edition of NMX-J-148-1998-ANCE.

2. Low Voltage Switchgear and Controlgear Assemblies, Part 1: Type Tested and partially type tested Assemblies, IEC 61439-1 & IEC 61439-6.

SERIES-S SPECS

The S5 Busway Series is designed with additional levels of ingress protection, IEC IP54 and NEMA 3R ratings, against liquid and solid contaminants.

This system meets or exceeds the additional standards for ingress protection:

3. International Electrotechnical Commission (IEC) - 60529, Degrees of Protection Provided by Enclosures (IP Code)

4. National Electrical Manufacturers Association (NEMA) - 250, Enclosures for Electrical Equipment (1000 Volts Maximum)

5. Housing shall be protected against corrosion utilizing protective coating (per MIL-DTL-5541), while maintaining case grounding capability, with option for powder-coating.

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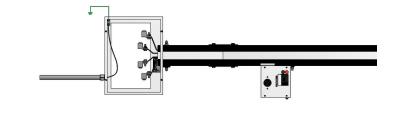
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GROUND OPTIONS

CASE GROUND/CHASSIS EARTH

Uses aluminum housing and no extra copper bar.

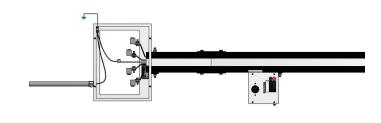




DEDICATED GROUND/EARTH

Extra bar in busway for ground. Everything tied together inside plugs. Bar and housing at same potential.

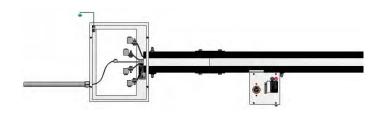




ISOLATED GROUND/EARTH

Orange receptacles in plugs. Case ground isolated from copper ground bar. Isolated ground carried back to panel by others.





*For further details about Dedicated Ground vs. Isolated Ground, please reference our "Isolated Ground vs. Dedicated Ground" tech brief on **<u>downloads.starlinepower.com/starline/busway</u>**.

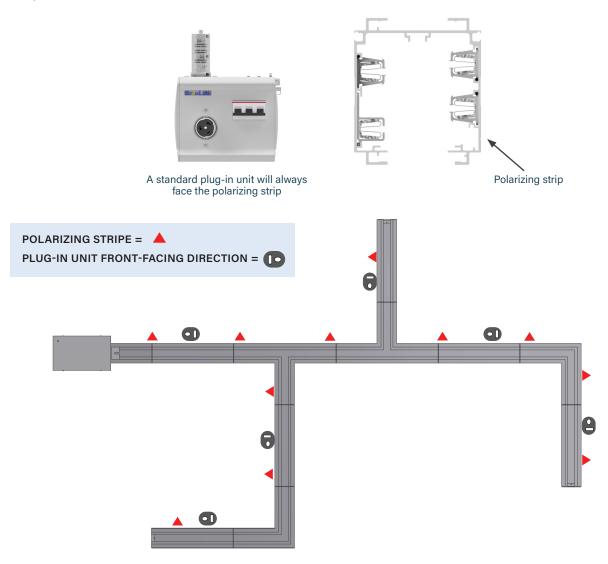


POLARITY TIPS

Starline utilizes a unique polarizing method to prevent mismatched components from being inadvertently connected to each other. The system is designed to prevent cross phasing during installation.

It is particularly important to understand this design concept prior to ordering and/or installing some components.

For example, if the face direction of a Starline plug-in unit is important in your installation consider that they will always face the polarizing strip side. Certain plug-in units are 'reversible', designated by 'R', to face devices away from the conductor side.





SYSTEM LAYOUT TIPS

POWER FEEDS

Determine location of power feeds based on relation to power source, existing feeders and voltage drop concerns for longer runs.

SUPPORT HARDWARE

Support hardware is spaced no more than 10 feet apart. Refer to **page 4.104** for support hardware details. Contact your local Starline applications engineer for any questions.

INSTALLATION

Printed installation drawings are supplied with each system shipment and they are also available for download online at <u>downloads.starlinepower.com/starline/busway/</u>. CAD and BIM files of these drawings are also available by contacting your local Starline applications engineer.

BUSWAY HOUSING SECTIONS

Standard Busway lengths are available in 5 foot, 10 foot and 20 foot increments (except for 800 amp and above where the max length is 10 feet. Although the factory can cut individual Starline Track Busway sections to any length under 20 feet, it is highly recommended to keep all layout runs in increments of 5 feet to simplify layout and installation.

BUSWAY TEES AND ELBOWS SECTIONS

Try to keep all runs as straight as possible as tees and elbows are added cost. Pay close attention to polarity on the elbows. The polarity will need to match the adjacent busway section(s) to be compatible.

S5 INFORMATION:

Each piece of S5 housing components (straights and elbows) requires an S5 joint kit (containing two housing couplers, one bus connector, a joint seal, and two joint covers). Determine the total number of housing sections (regardless of length) as this becomes the number of joint kits that will be needed. Add one extra joint kit for each tee section. If this is your first installation for S5 systems, you will need to order an Installation Tool (ST5IT). Closure strip must also be ordered to match the total length of busway housing ordered.

PLEASE NOTE: All S5 Busway components are designed to work together to function as one complete IP54-rated system. When selecting system components, it is important that only S5 Busway components from this catalog are used together. Do not use any T5 components within this catalog. For technical questions related to these systems and/or specific applications, please contact our technical support team.



COMPONENT RELATIONSHIP TIPS

When ordering material, it is important to understand the relationship between various components.

EXAMPLES

- The T5 series of plug-in units are compatible with all T5 Busway systems.
- Each piece of housing (straights and elbows) requires a joint kit (containing two housing couplers and one bus connector). Determine the total number of housing sections (regardless of length) as this becomes the number of joint kits that will be needed.
 - Add one extra joint kit for each tee section.
- If this is your first installation for T5 systems, you will need to order an Installation Tool (ST5IT).
- General support hardware rule to follow:

10 foot maximum spacing between supports and we recommend 10% more than the required quantity to cover potential layout changes. Seismic mounts and supports will differ from the standard. Please consult the factory for details.

- Total Power Feeds and End Caps can be determined by counting the total number of unconnected runs.
- Before specifying or ordering elbow or tee connectors, it is important to understand polarity and the relationship to direction of outlets. Please refer to **page 4.6** Polarity Tips for more detail.

S5 SYSTEM INFORMATION

All S5 components must be purchased and installed together to build a complete S5 System.

For the S5 system, please note the specific catalog numbering systems dedicated for these components. S5 system components will include the "S5" nomenclature in the "compatibility" field of the catalog number. Closure strip is required and must be ordered separately.

The S5 Joint Kit (SJK250S5) includes an additional joint seal and joint cover component required for the IP54 rating.

The standard installation tool (ST5IT) can be used for both the T5 and S5 system.



INGRESS PROTECTION

This table provides descriptions for the various Ingress Protection (IP) ratings as listed in IEC 60529. General T5 Busway is listed as IP2X. IP3X rated busway is available with additional accessories. Series - S Busway is available with an IP54 rating.

As the table indicates, for the IP54 rating the first number (5) pertains to the solid particle protection and the second (4) pertains to the level of protection from water. For purposes of real-world application of the Series-S busway system, please consider these general guidelines.

1. Splashproof and sprinkler proof; 2. Highly dust-resistant; 2. Not waterproof or watertight; 3. Not for outdoor use; 4. Not subject to direct exposure to natural elements, such as wind, rain, sun, ice, etc.



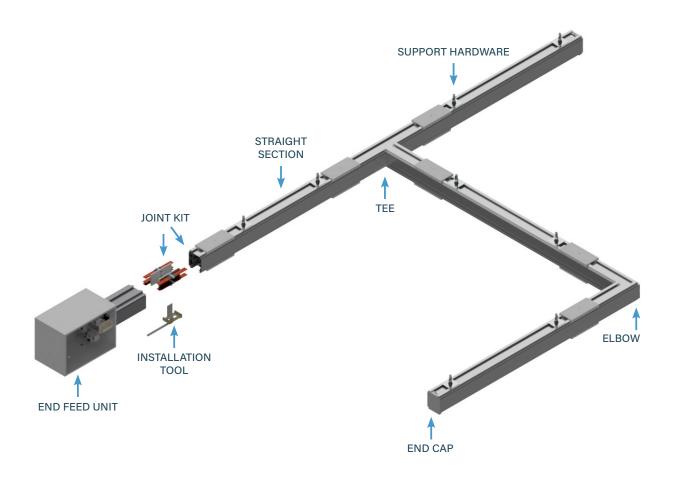
IP Rating Table

Ratings in accordance with the International Electrotechnical Commission (IEC) - 60529, Degrees of Protection Provided by Enclosures (IP Code)



250 AMP SYSTEMS

T5 SYSTEM LAYOUT DRAWING



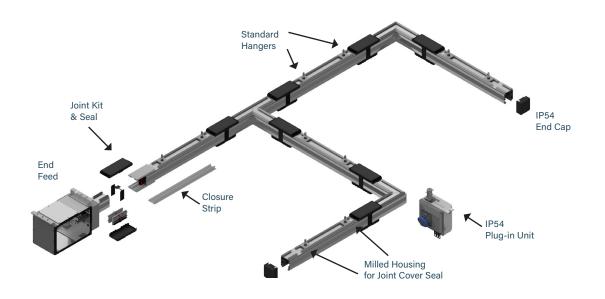
PLUG-IN UNITS

For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.



250 AMP SYSTEMS

S5 SYSTEM LAYOUT DRAWING



PLUG-IN UNITS

For further information on applicable S5 plug-in unit options, please visit the **Plug-In Units** section.

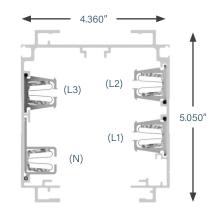


STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with "spring-pressure" type copper channel busbars contained in a full length insulator mounted on the interior walls. The aluminum extrusion acts as a 100% ground path. Each housing has a continuous access slot over its entire length for the insertion of turn-n-lock plug-in units. Housing configurations include 4-pole varieties, optional isolated or dedicated ground, optional oversize (200%) neutral. The housing sections join together using Bus Connectors which fit into the channels of the adjoining section. An Installation tool is used to force the blades into the busbar channels for a solid "spring-pressure" electrical connection.





MATERIAL

Extruded Aluminum Note: S5 housing includes corrosion resistant base coating.

RATINGS

100% Ground Path 250 Amps 250T5C4/250T5CG: 600 Volt 250T5CN/250T5CF: 600 Volt

LENGTH

T5: 10 ft, 20 ft; or custom lengths between 2 - 20 ft S5: 5 ft, 10 ft max. Consult factory for additional lengths

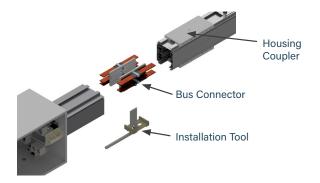
VOLTAGE DROP

Distributed load Single Phase 1V per 28ft (.8PF) Three Phase 1V per 48ft (.8PF)

WEIGHT

10 ft 4 pole: 41 lbs 10 ft 4 pole w/ ground: 46 lbs 10 ft 4 pole w/ 200% N: 47 lbs 10 ft 4 pole w/ ground & 200% N: 51 lbs

US	
L1 or Phase A	Black
L2 or Phase B	Red
L3 or Phase C	Blue
Neutral	White
Ground	Green/Black



STRAIGHT SECTIONS: **PRODUCT NUMBERS** U S 250 **T**5 4 S 0200 С С 2. 3. 4. 5. 6. 8. 9. 1. 7. Product Product Compatibility Material Polarization System Neutral/ Straight Busway Frame Ground Туре Busbar 0 STD 10. 11. Paint Color Tape Marking

1. System (standard of measure)		9. Busway Access (how plugs access the busway)						
U US		C Continuous						
2. Product Type (section compone	ent)	10. Paint Color (allows painting of the busway housing)						
S Straight Section								
3. Product Frame (maximum amp	erage)		Factory Black Factory White	BLU **RAL	Paint Factory Blue (please see page 4.103)			
250 250 amps		NOTE: All Series-S housings include a clear corrosion resist						
4. Compatibility (frame compatibil	lity)	base coating,	regardless of pa	aint color se	election.			
T5 T5 System	K5 T5 System (Limiting Strip)	11. Tape Mark	ing (colored tape	e on both sid	es of busway housing)			
S5 S5 System	L5 S5 System (Limiting Strip)	0 No Tape Marking 7 Tape Factory Blue						
5. Material (busbar material)	 3 Tape Factory Black 4 Tape Factory White 9 Tape Factory Yellow 							
C Copper		6 Tape Factory Red						
6. Neutral/Ground Busbar (size	of neutral busbar and/or ground)							
4 3 Phase plus Neutral	G 3 Phase plus Neutral plus Internal Ground Conductor							
N 3 Phase plus 200% Neutral	F 3 Phase plus 200% Neutral plus Internal Ground Conductor							
7. Polarization (orientation of section	on for mating purposes)							
S Standard								
8. Straight Length (length of section	ion)							

XXYY XX=feet, YY=inches

EXAMPLES

<u>US250T5C4S-0500C-STD0</u> = US System, Straight Section, 250 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 5 foot Straight Length, Continuous Busway Access, Factory Mill Finish, No Tape Marking

US250T5CNS-0206C-BLU0 = US System, Straight Section, 250 amps, T5 System, Copper Conductor, 3 Phase plus 200% Neutral, Standard Polarization, 2 foot 6 inch Straight Length, Continuous Busway Access, Painted Factory Blue, No Tape Marking



ELBOW SECTIONS

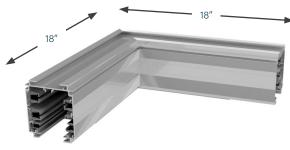
PRODUCT DESCRIPTION

An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify right or left elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

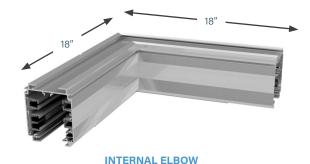
Connection Accessories (Ordered Separately)

A Joint Kit (**page 4.108**) is used to make mechanical and electrical connections to adjacent busway sections.

Weight 14.5 lbs



EXTERNAL ELBOW



External Elbow Internal Elbow

ELBOW SECTIONS: PRODUCT NUMBERS

	U	Е	250	T5	С	4	S	– IN		
	1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization	8. Turning Direction		
				- STD	0					
				9. Paint Color	10. Tape Marking					
1. System (sta U US	ndard of measu	ure)			IN Inter	nal		EX External		
2. Product Ty		omponent)			HN Seismic Internal GX Seismic External 9. Paint Color (allows painting of the busway housing) Image: Color (allows painting of the busway housing) Image: Color (allows painting of the busway housing)					
 E Elbow S 3. Product Fr 250 250 amp 	ame (maximur	m amperage)			STD Fa BLK Pa	ctory Mill Fi int Factory int Factory	nish RE Black BL	D Paint Factory D Paint Factory RAL (please see pag	Blue	
4. Compatibil T5 T5 Syste S5 S5 Syste	em	K5		imiting Strip) imiting Strip)	base coat	ing, regardle	ess of paint c	de a clear corrosion olor selection. both sides of busway l		
5. Material (b) C Copper					3 Tape4 Tape	Tape Markir e Factory Bl e Factory W	ack 8 hite 9	Tape Factory Bl Tape Factory Gi Tape Factory Ye	reen	
6. Neutral/G	round Busba	r (size of neutr	al busbar and,	/or ground)	6 Tape	e Factory Re	ea			
4 3 Phase	plus Neutral		3 Phase plus Internal Grou	Neutral plus nd Conductor						
N 3 Phase	plus 200% N		3 Phase plus plus Internal Conductor	200% Neutral Ground						
7. Polarizatio	n (orientation o	of section for m	ating purposes	s)						
S Standard	d									

EXAMPLES

UE250T5C4S-IN-BLU4 = US System, Elbow Section, 250 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Painted Factory Black, Factory White Tape

<u>UE250T5CGS-EX-STD0</u> = US System, Elbow Section, 250 amps, T5 System, Copper Conductor, 3 Phase plus Neutral plus Isolated/Dedicated Ground, Standard Polarization, External Turning Direction, Factory Mill Finish, No Tape Marking

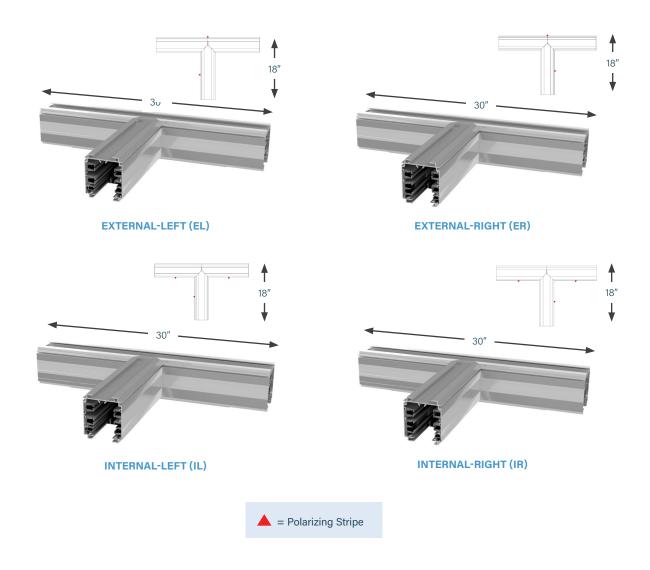


TEE SECTIONS

PRODUCT DESCRIPTION

Tee sections are used for creating a 90 degree branch leg in a busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. External tees are preferred. Tee sections are connected to adjacent busway sections using an installation tool and joint kit that includes a housing coupler and bus connector (ordered separately). This handles both the mechanical and electrical connection between a housing section and tee section of busway.

Weight 19.5 lbs



TEE SECTIONS: PRODUCT NUMBERS

					0		0			
	U	I	250	T5	С	4	S	-	IR	
	1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarizat	on	8. Turning Direction	
				- STD 9.	10.)				
				Paint Color	r Tape Markin	ıg				
1. Syster	n (standard of measur	re)			8. Turn	ning Direction	(direction c	f sectio	n polarizing	stripe)
U US						iternal-Left			External-	
2. Produ	Ict Type (section com	nponent)				iternal-Right eismic Internal	-Left	ER GL		Right External-Left
T Tee	Section				HR S	eismic Internal	-Right	GR	Seismic I	External-Right
3. Produ	ict Frame (maximum	amperage)			9. Pain	t Color (allows	painting of	the bus	way housing	g)
250 250) amps				STD	Factory Mill I		RED		Factory Red
4. Comp	atibility (frame comp	oatibility)			BLK WHT	Paint Factory Paint Factory		BLU **RAL		Factory Blue see page 4.103
	System System			imiting Strip) Imiting Strip)		All Series-S h pating, regardl				osion resistan
5. Mater	ial (busbar material)				10. Tap	e Marking (co	olored tape o	n both :	sides of bus	way housing)
C Co	pper					lo Tape Markir			ape Facto	
6. Neutr	al/Ground Busbar	(size of neut	ral busbar and	/or ground)		ape Factory B ape Factory W		8 T 9 T	ape Facto ape Facto	ry Green rv Yellow
4 3 P	hase plus Neutral	G	3 Phase plus Internal Grou	Neutral plus nd Conductor		ape Factory R		- •		
N 3 P	hase plus 200% Ne	utral F	3 Phase plus plus Internal Conductor	200% Neutral Ground						
7. Polari	zation (orientation of	section for n	nating purpose	s)						
S Sta	ndard									

EXAMPLES

<u>UT250T5C4S-IR-RED0</u> = US System, Tee Section, 250 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Red, No Tape Marking

<u>UT250T5CFS-EL-STD7</u> = US System, Tee Section, 250 amps, T5 System, Copper Conductor, 3 Phase plus 200% Neutral plus Isolated/Dedicated Ground, Standard Polarization, External-Left Turning Direction, Factory Mill Finish, Factory Blue Tape Marking



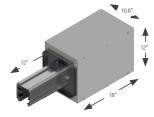
END FEED UNITS

PRODUCT DESCRIPTION

End power feed units connect to the end of the busway. A standard size, factory assembled unit consists of a steel junction box, with removable sides, connected to a 12 inch section of busway. Certain assemblies include connection lugs and a ground lug for wires up to 300MCM for standard size boxes and large size boxes.

End power feed units are connected to adjacent busway sections using a housing coupler and bus connector (ordered separately). Special need power feed units for confined spaces, as found in mission critical data centers, can also be designed and fabricated but may require minimum quantities.

Weight (for standard size end feed) 33 lbs *Standard busway stub size is 1 ft



STANDARD BOX

LARGE BOX





250S5 END FEED

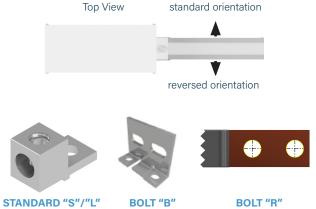
FUSED BOX

		BOXES	
LUGS	Standard	Large	Fused
Standard	S	L	F
Double			
Bolt	В	R	

Box size and Lug options: Refer to option 8. Lug/Box Options on page 4.21 End Feed Units: Product Numbers

*Bolt options include bolt, washer, nut. Lug not included.

*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on downloads.starlinepower.com/starline/busway





END FEED UNITS: METERING

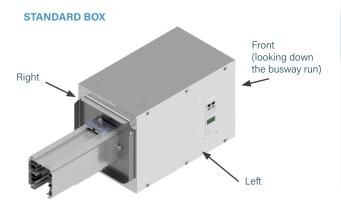
PRODUCT DESCRIPTION

End power feed units connect to the end of the busway. A large size, factory assembled unit consists of a steel junction box, with removable sides, connected to a 12 inch section of busway. Certain assemblies include connection lugs, a ground lug, and shrink tubing for wires up to 300MCM for standard size boxes and large size boxes.

Integral CPM installed in the end feed provides power monitoring and alarm capabilities. The M50 models are for AC busway, while the M60 models are for DC busway. Nuisance tripping may be avoided using the current information to protect against overloading phases. The monitors also assist in the continuous challenge to balance the three phase loads. Once the meter is integrated, an automated email will be sent at 80% of full load as a warning to the user. This level may be changed in the field using the integrated webpage.

LARGE BOX





*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 4.21** End Feed Units: Product Numbers)

AC END FEED METER OPTIONS

M51	Single Eth./WiFi, ≤480V Y, ≤277V ∆
M53	Single Eth./No WiFi, ≤480V Y, ≤277V ∆
M58	Dual Eth., ≤480V Y, ≤277V ∆
M59	Dual Eth/Dual Modbus, \leq 480V Y, \leq 277V Δ

DC END FEED METER OPTIONS

- M61 Single Eth./WiFi, single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M63 Single Eth./No WiFi, single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- **M67** Dual Eth., single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M69 Dual Eth/Dual Modbus, single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

BOX/LUGS OPTION	1 Meter or Accessory	1 Meter & 1 Accessory (opposite lids)	1 Meter & 1 Accessory (same lid)
(S) Standard Box, Standard Lugs	Х	Х	Х
(L) Large Box, Standard Lugs	Х	Х	Х
(R) Large Box, Bolt Lugs	Х	Х	Х
(B) Standard Box, Box Lugs	Х	Х	Х

Series-S Note: End Feed metering not currently offered for Series-S systems. For custom inquiries, please contact your Starline representative."



END FEED UNITS: ACCESSORIES

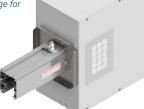
IR WINDOWS

Starline Track Busway Polymer IR Window systems use a proprietary stack-up of advanced materials to ensure highest levels of safety and optimal infrared thermography of critical connections.

When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

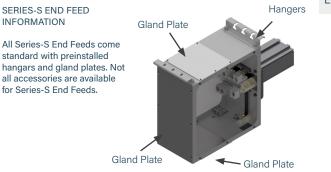
Safely and accurately scan connection points while the system is under load, without exposing the operator to live connections.

Note: Rectangular IR window option not available for Series-S systems. See S5 end feed accessories package for more information.



END FEED HANGERS & GLAND PLATES

End feed hangers & aluminum cable gland plates, located on the top, bottom and back of the end feed, can now be added as an optional accessory to Starline end feeds. These features make installation fast and easy and can be paired with other Starline end feed accessories.



FEATURES & BENEFITS

- Allows for safe IR scanning without powering down busway
- Complete system coverage with IR windows for plug-in units and end feeds
- End feed IR windows designed in 2 sizes for optimized viewing angles
- Cost effective design allows for quick end user ROI
- ETL Listed, CE Marked
- Lower TCO
- Enhanced safety
- Effective preventative maintenance

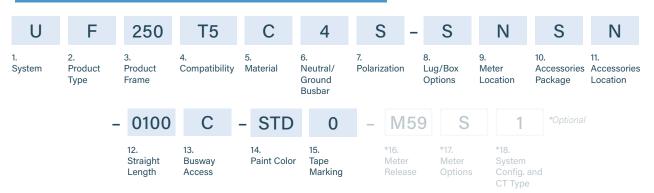
GENERAL SPECIFICATIONS	
Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Alu- minum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T5); IP54 (S5)
Max Operating Temperature	125°C
WINDOW DIMENSIONS	
End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 500A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17. M50 Options on **page 4.22** End Feed Units: Product Numbers)

(Refer to option 10. Accessories Package on **page 4.21** End Feed Units: Product Numbers)



END FEED UNITS: PRODUCT NUMBERS



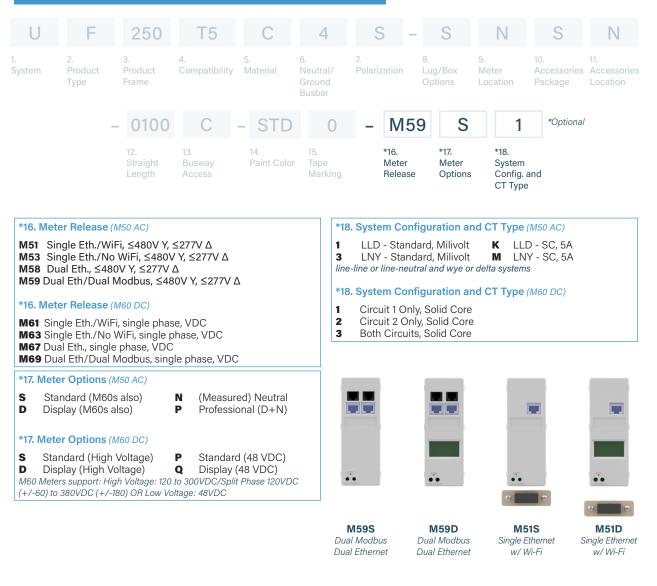
1. System (standard of measure)	10. Accessories Package (optional accessories for feed units)					
U US	T5 Options: S Standard B (C+F)					
2. Product Type (section component)	C IR Window - Circular I (G+F)					
F End Feed	F End Feed Hanger & Gland Plates G Starline Rect. IR window, 5"x7"					
3. Product Frame (maximum amperage)	S5 Options:					
250 250 amps	 F S5 Standard (includes hangars, and gland plates) B S5 Standard + IR Window - Circular 					
4. Compatibility (frame compatibility)						
T5 T5 System K5 T5 System (Limiting Strip)	11. Accessories Location (from the terminal, side with accessory)					
S5 S5 System L5 S5 System (Limiting Strip)	N None (N/A) R Right					
5. Material (busbar material)	L Left F Front (consult the factory)					
C Copper	12. Straight Length (length of section)					
6. Neutral/Ground Busbar (size of neutral busbar and/or ground)	0100 1 ft. (For other lengths, consult the factory)					
4 3 Phase plus Neutral G 3 Phase plus Neutral plus	13. Busway Access					
N 3 Phase plus 200% Neutral F 3 Phase plus 200% Neutral	C Continuous					
plus Internal Ground Conductor	14. Paint Color (allows painting of the busway housing)					
Conductor	STD Factory Mill Finish RED Paint Factory Red					
7. Polarization (orientation of section for mating purposes)	BLK Paint Factory Black BLU Paint Factory Blue					
S Standard R Reversed	WHT Paint Factory White **RAL (please see page 4.103)					
8. Lug/Box Options (standard/double/bolt lugs and box size)	NOTE: All End Feed enclosures are painted. "STD Factory Mill Finish" represents painted standard silver.					
 S Standard lugs, Standard box R Bolt lugs, Large box Standard lugs, Large box F Standard lugs, Fused box 	15. Tape Marking (colored tape on both sides of busway housing)					
 L Standard lugs, Large box F Standard lugs, Fused box B Bolt Lugs, Standard Box 	No Tape Marking Tape Factory Blue					
9. Meter Location (from the terminal, side with removable lid)	3 Tape Factory Black 8 Tape Factory Green 4 Tape Factory White 9 Tape Factory Yellow					
R Right L Left	6 Tape Factory Red					
N None (N/A)						

EXAMPLE

UF250T5C4R-LRLL-0100C-BLK0 = US System, End Feed, 250 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Large Box, Right Meter Location, Circular IR Window + Angled Meter Lid, Left Accessory Location, 1 foot Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking



END FEED METERING: PRODUCT NUMBERS



Note: Series - S end feeds not currently equipped with power monitoring. Consult factory for details.

EXAMPLE

UF250T5C4R-LRLL-0100C-BLK0-M59S1 = US System, End Feed, 250 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Large Box, Right Meter Location, Circular IR Window + Angled Meter Lid, Left Accessory Location, 1 foot Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking, M59 Meter, Standard Meter Options, LLD - Standard, Milivolt



ABOVE FEED UNITS

PRODUCT DESCRIPTION

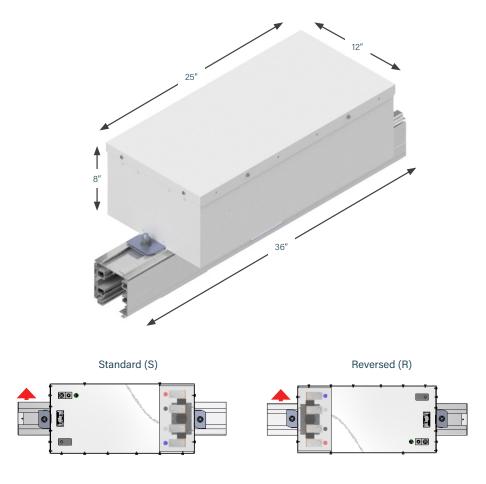
The above feed power unit supplies power from the topside of the Busway. Factory assembled unit consists of a $25 \times 12 \times 8$ inch steel junction box that is mounted on top of a 36 inch section of busway.

*36 inches is the minimum and standard length of busway that an above feed is provided with.

Above feed units can be placed at the end or anywhere along a busway run. Connections to adjoining busway sections are made by the standard means, requiring couplers and bus connectors which are sold separately.

Weight 45.5 lbs

*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on <u>downloads.starlinepower.com/starline/busway</u>





ABOVE FEED UNITS: PRODUCT NUMBERS

U	А	250	T5	С	4	S	-	D	Ν	S	Ν
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarizatio		ug/Box ptions	9. Meter Location	10. Accessorie: Package	11. Accessories Location
-	0300	С	018	- STD	0	– N	159	S	1	*Optiona	n/
	12. Straight Length	13. Busway Access	14. Feed Location	15. Paint Color	16. Tape Marking	*17. Met Rele		*18. Meter Options		n Config. T Type	

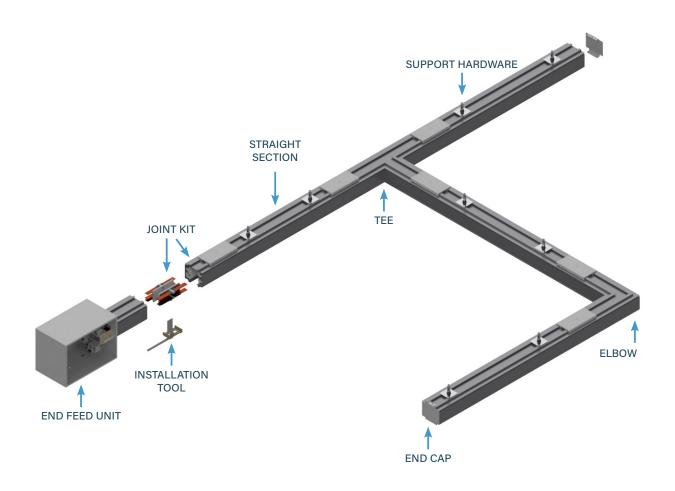
1. System (standard of measure)	12. Straight Length (length of section)
U US	0300 3 feet
2. Product Type (section component) A Above Feed	13. Busway Access (how plugs access the busway) C Continuous
3. Product Frame (maximum amperage)250 250 amps	14. Feed Location (location of the center of the top feed)018 18 inches (For other lengths, consult the factory)
4. Compatibility (frame compatibility)	15. Paint Color (allows painting of the busway housing)
T5T5 SystemK5T5 System (Limiting StripS5S5 SystemL5S5 System (Limiting Strip	
5. Material (busbar material) C Copper	NOTE: All End Feed enclosures are painted. "STD Factory Mill Finish" represents painted standard silver.
 6. Neutral/Ground Busbar (size of neutral busbar and/or ground) 4 3 Phase plus Neutral G 3 Phase plus Neutral plus Internal Ground Conducts N 3 Phase plus 200% Neutral F 3 Phase plus 200% Neutral plus Internal Ground Conductor 	Or A Tape Factory Black B Tape Factory Green
7. Polarization (orientation of section for mating purposes) S Standard R Reversed 8. Lug/Box Options (standard/double/bolt lugs and box size)	*17. Meter Release (M50 Series Meters) M51 Single Eth./WiFi, ≤480V Y, ≤277V Δ M53 Single Eth./No WiFi, ≤480V Y, ≤277V Δ M58 Dual Eth., ≤480V Y, ≤277V Δ M59 Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ
 Double lugs, Standard box B Bolt lugs, Standard box 9. Meter Location (from the terminal, side with removable lid) 	*18. Meter Options (choose from a 4.1" display, measured neutral, audible alarm and/or a temperature monitor)
R Right L Left N None (N/A)	SStandardN(Measured) NeutralDDisplayPProfessional (D+N)
S Standard	*19. System Configuration and CT Type (line-line or line-neutral and wye or delta systems)
None (N/A) R Right A Rear L Left T Top F Front	1LLD - Standard, MilivoltKLLD - SC, 5A3LNY - Standard, MilivoltMLNY - SC, 5A

EXAMPLE

<u>UA250T5CFS-DLSN-0300C018-STD0-M59D3</u> = US System, Above Feed, 250 amps, 75 System, Copper Conductor, 3 Phase plus 200% Neutral plus Internal Ground Conductor, Standard Polarization, Double Lugs, Standard Box, Left Meter Location, Standard Accessory Package, No Accessory Location-3 foot Straight Length, Continuous Busway Access, 18 inch Feed Location, Factory Mill Finish, No Tape Marking, M59 Meter, Display, LNY - Standard, Milivolt



T5 SYSTEM LAYOUT DRAWING

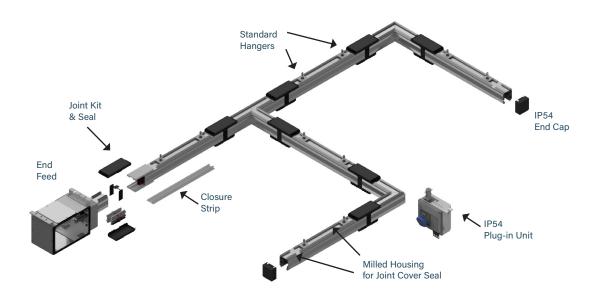


PLUG-IN UNITS

For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.



S5 SYSTEM LAYOUT DRAWING



PLUG-IN UNITS

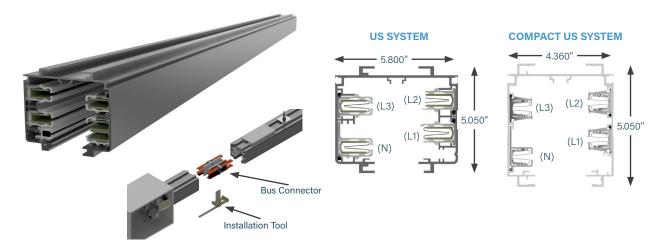
For further information on applicable S5 plug-in unit options, please visit the **Plug-In Units** section.



STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with "spring-pressure" type copper channel busbars contained in a full length insulator mounted on the interior walls. The aluminum extrusion acts as a 100% ground path. Each housing has a continuous access slot over its entire length for the insertion of turn-n-lock plug-in units. Housing configurations include 4-pole varieties, optional isolated ground, optional oversize (200%) neutral. The straight sections join together using Bus Connectors which fit into the channels of the adjoining section. An Installation Tool is used to force the blades into the busbar channels for a solid "spring-pressure" electrical connection.



MATERIAL

Extruded Aluminum Note: S5 housing includes corrosion resistant base coating

RATINGS

100% Ground Path 400 Amps 400T5C4/400T5CG: 600 Volt 400T5CN/400T5CF: 600 Volt

LENGTH

T5: 10 ft, 20 ft; or custom lengths between 2 - 20 ft S5: 5 ft, 10 ft max. Consult factory for additional lengths

VOLTAGE DROP

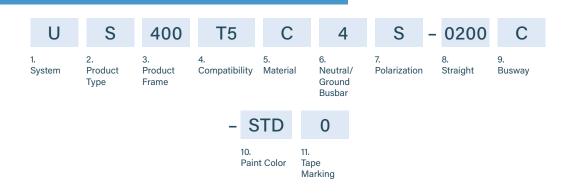
Distributed load US System Single Phase 1V per 37ft (.8PF) Three Phase 1V per 65ft (.8PF) Compact US System Single Phase 1V per 28ft (.8PF) Three Phase 1V per 48ft (.8PF)

WEIGHT

US System
10 ft 4 pole: 95 lbs
10 ft 4 pole w/ ground: 96 lbs
10 ft 4 pole w/ 200% N: 97 lbs
10 ft 4 pole w/ ground & 200% N: 107 lbs
Compact US System
10 ft 4 pole: 52 lbs
10 ft 4 pole w/ ground: 57 lbs
10 ft 4 pole w/ 200% N: 60 lbs
10 ft 4 pole w/ ground & 200% N: 64 lbs

US	
L1 or Phase A	Black
L2 or Phase B	Red
L3 or Phase C	Blue
Neutral	White
Ground	Green/Black

STRAIGHT SECTIONS: PRODUCT NUMBERS



1. System (standard of mea	asure)	9. Busway Access (how plugs access the busway)
U US	C Compact	C Continuous
2. Product Type (section	component)	10. Paint Color (allows painting of the busway housing)
S Straight Section		STD Factory Mill Finish RED Paint Factory Red
3. Product Frame (maxim	num amperage)	BLK Paint Factory Black BLU Paint Factory Blue WHT Paint Factory White **RAL (please see page 4.103)
400 400 amps		*Paint Factory Silver for Compact US systems
4. Compatibility (frame co	ompatibility)	NOTE: All Series-S housings include a clear corrosion resistant base coating, regardless of paint color selection.
T5 SystemS5 System	K5 T5 System (Limiting Strip)L5 S5 System (Limiting Strip)	11. Tape Marking (colored tape on both sides of busway housing)
5. Material (busbar materia	al)	0No Tape Marking7Tape Factory Blue3Tape Factory Black8Tape Factory Green
C Copper		 4 Tape Factory White 9 Tape Factory Yellow 6 Tape Factory Red
6. Neutral/Ground Bush	bar (size of neutral busbar and/or ground)	
4 3 Phase plus Neutra	al G 3 Phase plus Neutral plus Internal Ground Conductor	
N 3 Phase plus 200%	Neutral F 3 Phase plus 200% Neutral plus Internal Ground Conductor	
7. Polarization (orientation	n of section for mating purposes)	
S Standard		
8. Straight Length (length	h of section)	
XXYY XX=feet, YY=inch	ies	

EXAMPLES

US400T5C4S-0500C-STD0 = US System, Straight Section, 400 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 5 foot Straight Length, Continuous Busway Access, Factory Mill Finish, No Tape Marking

CS400K5CNS-0206C-P013 = Compact US System, Straight Section, 400 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus 200% Neutral, Standard Polarization, 2 foot 6 inch Straight Length, Continuous Busway Access, Painted RAL 1001, Factory Black Tape Marking



ELBOW SECTIONS

PRODUCT DESCRIPTION

An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

Connection Accessories

(Ordered Separately) Joint Kits (**page 4.108**) are used to make mechanical and electrical connections to adjacent busway sections.

Weight

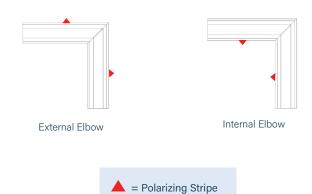
28 lbs US System 18 lbs Compact US System



EXTERNAL ELBOW



INTERNAL ELBOW



ELBOW SECTIONS: PRODUCT NUMBERS

	U	Е	400	Τ5	С	4	S	-	IN	
	1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction	
				- STD	C)				
				9. Paint Color	10. Tape Markir	g				
1. System (sta U US	ndard of measu	· ·	Compact US			iing Direction	(direction of s		n polarizing External	stripe)
2. Product Ty	una (apotion op					eismic Internal			Seismic E	External
E Elbow S		mponent)			9. Pair	t Color (allows	painting of th	e bus	sway housing	<i>q)</i>
 3. Product Fr 400 400 amp 	ame (maximur	m amperage)			STD BLK WHT	Factory Mill F Paint Factory Paint Factory	Black B	ED LU *RAI	Paint I	Factory Rec Factory Blue see page 4.10
4. Compatibi	lity (frame com	npatibility)				All Series-S housi		clear	corrosion res	istant base co
T5 T5 Syste S5 S5 Syste				imiting Strip) imiting Strip)		ess of paint color of Marking (co		both	sides of bus	way housing,
5. Material (b)	usbar material)					lo Tape Markin ape Factory Bl			Tape Facto Tape Facto	
C Copper					4 T	ape Factory W	hite 9		Tape Facto	
6. Neutral/G	round Busba	r (size of neuti	al busbar and,	/or ground)	6 T	ape Factory Re	ed			
4 3 Phase	plus Neutral		3 Phase plus Internal Grou	Neutral plus nd Conductor						
N 3 Phase	plus 200% N		3 Phase plus plus Internal Conductor	200% Neutral Ground						
7. Polarizatio	n (orientation o	f section for m	ating purposes	s)						
S Standard	b									

EXAMPLES

<u>UE400K5C4S-IN-PJ70</u> = US System, Elbow Section, 400 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Painted RAL 5027, No Tape Marking

<u>CE400T5CGS-EX-STD3</u> = Compact US System, Elbow Section, 400 amps, T5 System, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External Turning Direction, Factory Mill Finish, Factory Black Tape Marking



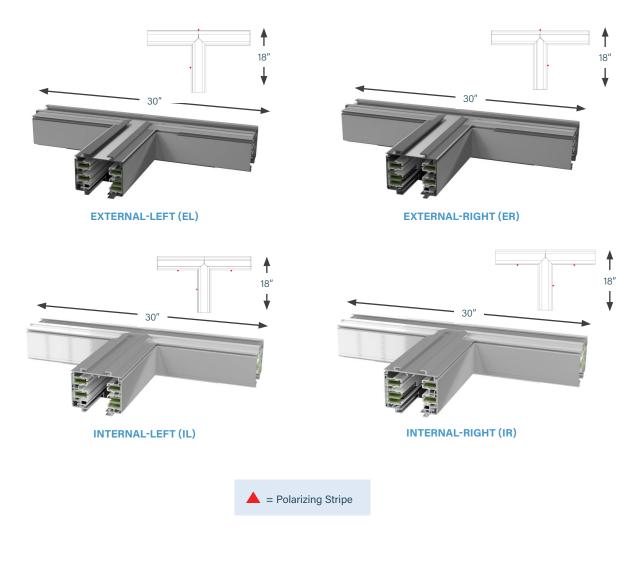
TEE SECTIONS

PRODUCT DESCRIPTION

Tee sections are used for creating a 90 degree branch leg in a Busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. External tees are preferred. Tee sections are connected to adjacent Busway sections using an installation tool and joint kit that includes a housing coupler and bus connector (ordered separately). This handles both the mechanical and electrical connection between a straight section and tee section of busway.

Weight

42 lbs US System 24 lbs Compact US System



TEE SECTIONS: PRODUCT NUMBERS

	U	Т	400	T5	С	4	S	-	IR	
	1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarizati	on [.]	8. Turning Direction	
				- STD	0					
				9. Paint Color	10. r Tape Marking	g				
1. System (s	tandard of meas	ure)			8. Turn	ing Directio	ו (direction c	of sectio	n polarizing	stripe)
U US 2. Product 1 T Tee Se	Type (section co		Compact US		IR In HL Se	ternal-Left ternal-Right eismic Interna eismic Interna		EL ER GL GR		
3. Product F 400 400 am	Frame (maximul nps	m amperage)			STD	t Color (allow Factory Mill	Finish	RED	Paint	Factory Red
4. Compatik T5 T5 Sys S5 S5 Sys		K5		imiting Strip) imiting Strip)		Paint Factor Paint Factor All Series-S hous ss of paint color	y White	BLU **RAI a clear o	(please	Factory Blue see page 4.10 istant base coa
y	(busbar material)					e Marking (c		n hoth	sides of hus	way housing)
C Coppe	· · · · · · · · · · · · · · · · · · ·					o Tape Marki		7 7	Tape Facto	ry Blue
6. Neutral/0	Ground Busba	r (size of neut	ral busbar and,	/or ground)		ape Factory E ape Factory V			Tape Facto Tape Facto	
4 3 Phas	e plus Neutral	G	3 Phase plus Internal Grou	Neutral plus nd Conductor		ape Factory F		- '		.,
N 3 Phas	e plus 200% N	eutral F	3 Phase plus plus Internal Conductor	200% Neutral Ground						
7. Polarizati	on (orientation o	of section for n	nating purpose	s)						
S Standa	ard									

EXAMPLES

<u>UT400T5C4S-IR-RED0</u> = US System, Tee Section, 400 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning direction, Painted Factory Red, No Tape Marking

<u>CT400K5CFS-EL-STD0</u> = Compact US System, Tee Section, 400 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus 200% Neutral plus Internal Ground Conductor, Standard Polarization, External-Left Turning Direction, Factory Mill Finish, No Tape Marking



END FEED UNITS

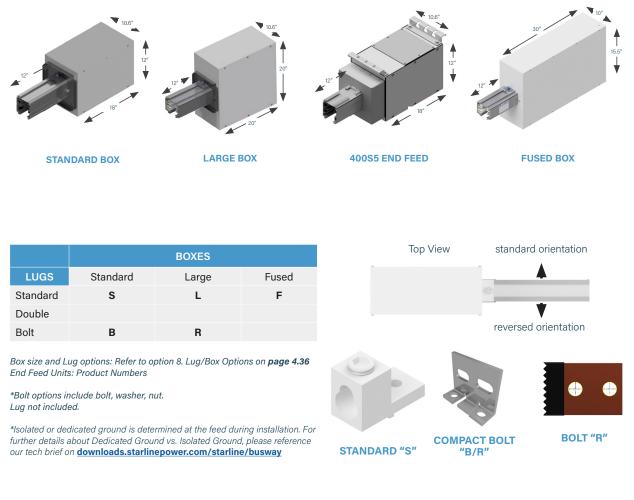
PRODUCT DESCRIPTION

End power feed units connect to the end of the busway. A standard size, factory assembled unit consists of a steel junction box, with removable sides, connected to a 1 foot section of busway. Certain assemblies include connection lugs and a ground lug for wires (2) 250MCM or up to 600MCM for standard size boxes and large size boxes.

End power feed units are connected to adjacent busway sections using a housing coupler and bus connector (ordered separately).

Special need power feed units for confined spaces, as found in mission critical data centers, can also be designed and fabricated but may require minimum quantities.

Weight (for standard size end feed) 36 lbs





END FEED UNITS: METERING

PRODUCT DESCRIPTION

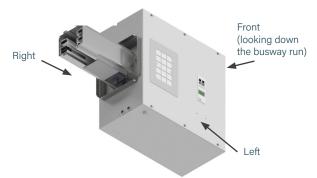
End power feed units connect to the end of the busway. A large size, factory assembled unit consists of a steel junction box, with removable side, connected to a 1 foot section of busway. Certain assemblies include connection lugs and a ground lug for wires (2) 250MCM or up to 600MCM for standard size boxes and large size boxes.

Integral CPM installed in the end feed provides power monitoring and alarm capabilities. The M50 models are for AC busway, while the M60 models are for DC busway. Nuisance tripping may be avoided using the current information to protect against overloading phases. The monitors also assist in the continuous challenge to balance the three phase loads. Once the meter is integrated, an automated email will be sent at 80% of full load as a warning to the user. This level may be changed in the field using the integrated webpage.

LARGE BOX



STANDARD BOX



*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 4.36** End Feed Units: Product Numbers)

Series-S Note: End Feed metering not currently offered for Series-S systems. For custom inquiries, please contact your Starline representative.

AC END FEED METER OPTIONS

M51 Single Eth./WiFi, ≤480V Y, ≤277V Δ
M53 Single Eth./No WiFi, ≤480V Y, ≤277V Δ
M58 Dual Eth., ≤480V Y, ≤277V Δ
M59 Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ

DC END FEED METER OPTIONS

- M61 Single Eth./WiFi, single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M63 Single Eth./No WiFi, single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M67 Dual Eth., single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M69 Dual Eth/Dual Modbus, single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

BOX/LUGS OPTION	1 Meter or Accessory	1 Meter & 1 Accessory (opposite lids)	1 Meter & 1 Accessory (same lid)
(S) Standard Box, Standard Lugs	Х	Х	Х
(L) Large Box, Standard Lugs	Х	Х	Х
(R) Large Box, Bolt Lugs	х	х	Х
(B) Standard Box, Bolt Lugs	х	х	Х



END FEED UNITS: ACCESSORIES

IR WINDOWS

Starline Track Busway Polymer IR Window systems use a proprietary stack-up of advanced materials to ensure highest levels of safety and optimal infrared thermography of critical connections.

When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

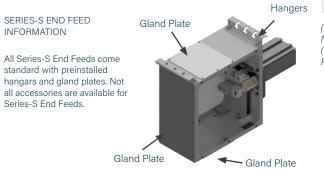
Safely and accurately scan connection points while the system is under load, without exposing the operator to live connections.

Note: Rectangular IR window option not available for Series-S systems. See S5 end feed accessories package for more information.



END FEED HANGERS & GLAND PLATES

End feed hangers & aluminum cable gland plates, located on the top, bottom and back of the end feed, can now be added as an optional accessory to Starline end feeds. These features make installation fast and easy and can be paired with other Starline end feed accessories.



FEATURES & BENEFITS

- Allows for safe IR scanning without powering down busway
- Complete system coverage with IR windows for plug-in units and end feeds
- Plug-in units have both Line & Load side IR windows for OCPD connections
- Cost effective design allows for quick end user ROI
- ETL Listed, CE Marked
- Lower TCO
- Enhanced safety
- Effective preventative maintenance

GENERAL SPECIFICATIONS	
Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Alu- minum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T5); IP54 (S5)
Max Operating Temperature	125°C
WINDOW DIMENSIONS	
End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 500A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17. M50 Options on **page 4.37** End Feed Units: Product Numbers)

(Refer to option 10. Accessories Package on **page 4.36** End Feed Units: Product Numbers)



END FEED UNITS: PRODUCT NUMBERS

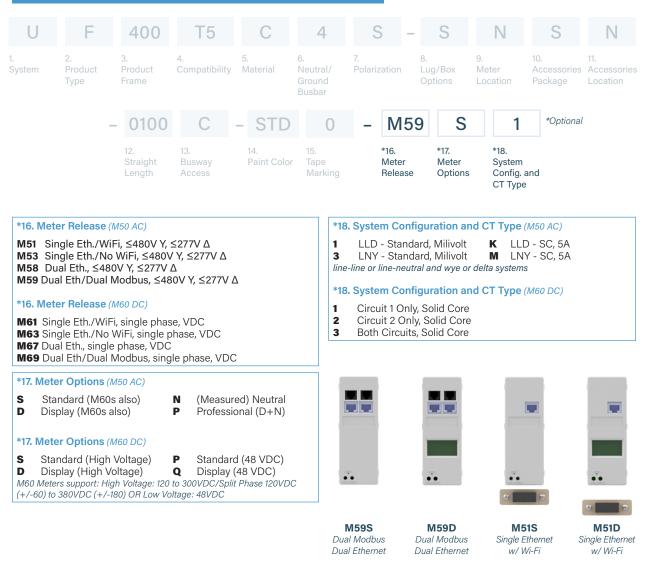
U	J F	400	T5	С	4	S	-	S	Ν	S	Ν
System	2. n Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polariza	tion	8. Lug/Box Options	9. Meter Location	10. Accessories Package	11. Accessories Location
		- 0100	С	- STD	0	-	M59	9 S	1	*Optiona	
		12. Straight Length	13. Busway Access	14. Paint Colo	15. or Tape Marking	Ν	16. 1eter elease	*17. Meter Options	*18. System Config. CT Typ	and	
1. Sy	/stem (standard o	f measure)			1	0. Access	ories Pa	ackage (op	tional access	ories for feed u	nits)
U	US		C Compac	et US	T	5 Options: Stand			B (C	+F)	
2. Pi	roduct Type (sec	tion componer	nt)		C	IR Wir	ndow -	Circular	I (G	+F)	
F	End Feed				F			nger & Gla . IR window			
3. Pi	roduct Frame (m	naximum ampe	rage)		S	5 Options		(includes b	, angars and	gland plates)	
400	400 amps								w - Circula		
4. C	ompatibility (frai	me compatibilit	ty)								
T5 S5	T5 System S5 System		K5 T5 Syste L5 S5 Syste		Strin)			ocation (from		l, side with acc	essory)
	laterial (busbar m	otorial)	LO 00 0930		N L		(N/A)			ght ont (consult tl	ne factory)
C.	Copper	alenai)									
	eutral/Ground I	Rushar (size c	of neutral busha	r and/or group				h (length of a			
4	3 Phase plus N			e plus Neutral					nsult the facto	ory)	
			Internal	Ground Cond	ductor	3. Busway Contir		S			
Ν	3 Phase plus 20	J0% Neutrai	plus Int	e plus 200% N ernal Ground					6.1 I		
			Conduc	ctor				ows painting Il Finish	of the buswa	<i>y nousing)</i> Paint Factor	Red
7. Pc	olarization (orient	tation of section	n for mating pu	rposes)	E	ILK Pair	nt Facto	ory Black	BLU	Paint Factor	y Blue
S	Standard		R Reverse	ed				ory White	**RAL	(please see pa	• •
8. Lu	ug/Box Options	(standard/dou	ıble/bolt lugs aı	nd box size)				enclosures an andard silver.	e painted. "ST	D Factory Mill F	-ınish"
S L	Standard lugs, S Standard lugs, L			d lugs, Fused s, Large box	box				on both side	s of busway ho	using)
B	Bolt Lugs, Stand		Doit lug	s, Larye DUX	0		pe Mar			pe Factory Bl	-
9. M	eter Location (fi	rom the termin:	al. side with ren	novable lid)	3		actory actory			pe Factory G pe Factory Ye	
R	Right None (N/A)		L Left		6		actory		⊎ Id		-IIUW

EXAMPLE

UF400T5C4R-LRLL-0100C-BLK0 = US System, End Feed, 400 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Large Box, Right Meter Location, Circular IR Window + Angled Meter Lid, Left Accessory Location, 1 foot Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking



END FEED METERING: PRODUCT NUMBERS



Note: Series - S end feeds not currently equipped with power monitoring. Consult factory for details.

EXAMPLE

UF400T5C4R-LRLL-0100C-BLK0-M59S1 = US System, End Feed, 400 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Large Box, Right Meter Location, Circular IR Window + Angled Meter Lid, Left Accessory Location, 1 foot Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking, M59 Meter, Standard Meter Options, LLD - Standard, Milivolt



ABOVE FEED UNITS

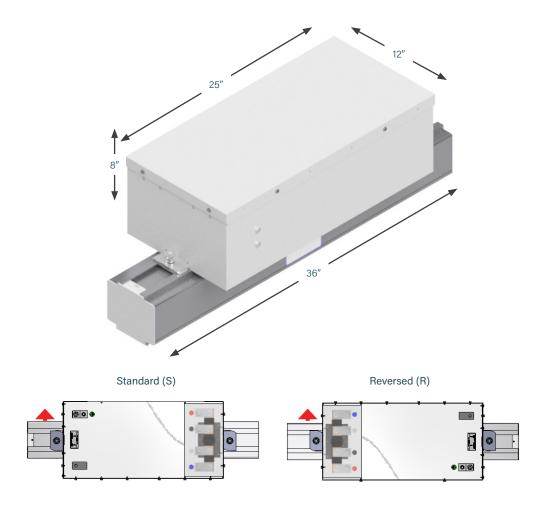
PRODUCT DESCRIPTION

The above feed power unit supplies power from the topside of the busway. Factory assembled unit consists of a $25 \times 12 \times 8$ inch steel junction box mounted on top of a 36 inch section of busway.

*36 inches is the minimum and standard length of busway that an above feed is provided with.

Above feed units can be placed at the end or anywhere along a busway run. Connections to adjoining busway sections are made by the standard means, requiring couplers and bus connectors which are sold separately.

*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on <u>downloads.starlinepower.com/starline/busway</u>





ABOVE FEED UNITS: PRODUCT NUMBERS

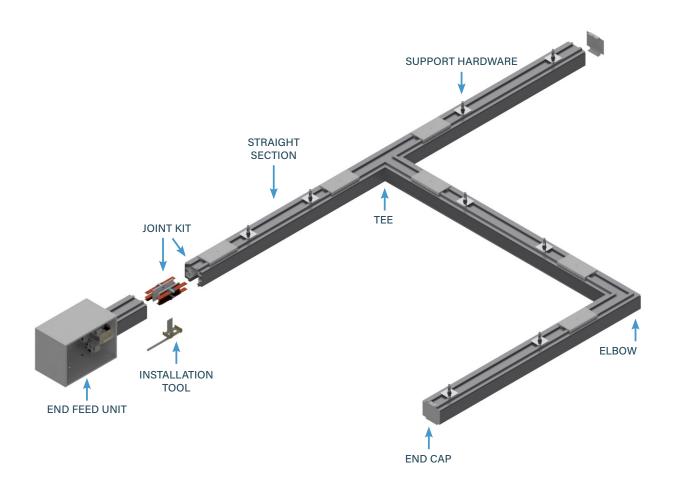
					_						
U	А	400	T5	С	4	S	-	S	Ν	S	Ν
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarizatio		ıg/Box ptions	9. Meter Location	10. Accessories Package	11. Accessorie Location
	- 0300	С	018	- STD	0	- N	/159	S	1	*Optiona	I
	12. Straight Length	13. Busway Access	14. Feed Location	15. Paint Colo	16. or Tape Marking	*17. Me Rel		*18. Meter Options		n Config. Type	
1. Syste U US	m (standard of	measure)	C Compact	US		2. Straight L 300 3 feet	.ength (length of	section)		
	uct Type (sect	tion compone	•			B. Busway A	ccess (how plug	access the l	busway)	
	ove Feed				C			non plage		,aonay)	
3. Produ	uct Frame (m	aximum ampe	erage)		14	4. Feed Loc	ation (/a	cation of	the center of	the top feed)	
400 40	0 amps				0	18 18 inche	s (For ot	her length	s, consult the	e factory)	
4. Comp	patibility (fran	ne compatibili	ity)		1	5. Paint Col	or (allow	s painting	of the buswa	y housing)	
	System System		K5 T5 SystemL5 S5 System				ry Mill F Factory		RED BLU	Paint Factor Paint Factor	
	rial (busbar ma	aterial)					Factory		**RAL	(please see pa	,
C Co	pper					OTE: All Abov				STD Factory M	ill Finish"
6. Neuti	ral/Ground B	Busbar (size d	of neutral busbar	and/or groun	ld) 1	6. Tape Mar	king (co	lored tape	on both side	es of busway ho	using)
4 3 F	hase plus Ne	eutral		plus Neutral	plus 0	No Tape	Markir	ng	7 Ta	pe Factory B	ue
N 3 F	Phase plus 20	0% Neutral	F 3 Phase	Ground Conc plus 200% N ernal Grounc tor	leutral 4	Tape Fa	ctory W	'hite		pe Factory G pe Factory Ye	
7. Polari	zation (orienta	ation of sectio	n for mating purp		*	17. Meter Re	lease (/	M50 Serie	s Meters)		
	andard		R Reverse			151 Single 153 Single					
8. Lug/I	Box Options	(standard/doเ	uble/bolt lugs and	d box size)	N	158 Dual Et	h., ≤48	0V Y, ≤27	77V Δ		
S Sta	indard lugs, St	tandard box				159 Dual Eth		,			
9. Mete	r Location (fr	om the termin	al, side with rem	ovable lid)		18. Meter O <i>udible alarm a</i>				lay, measured r	eutral,
R Rig	jht	L Left	N	None (N/A)	S		d			Measured) Ne	
	essories Pacl andard	kage (optiona	al accessories for	r feed units)		19. System (rofessional (E e (line-line or lin	,
	ne (N/A)	ntion (from the R Right T Top		<i>vith removabl</i> Rear Front		nd wye or delt LLD - St LNY - St	andard	Milivolt		LD - SC, 5A NY - SC, 5A	

EXAMPLE

UA400K5CFS-SRSN-0300C018-STD0-M59D3 = US System, Above Feed, 400 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus 200% Neutral plus Internal Ground Conductor, Standard Polarization, Standard Lugs, Standard Box, Right Meter Location, Standard Accessory Package, No Accessory Location, 3 foot Straight Length, Continuous Busway Access, 18 inch Feed Location, Factory Mill Finish, No Tape Marking, M59 Meter, Display, LNY - Standard, Milivolt



T5 SYSTEM LAYOUT DRAWING

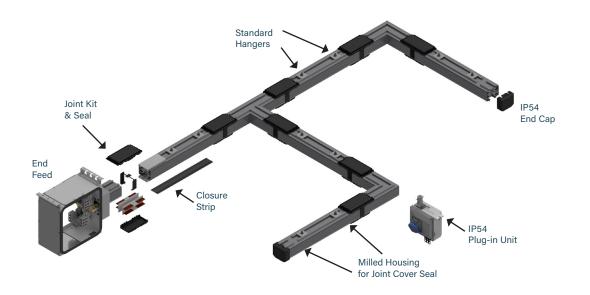


PLUG-IN UNITS

For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.



S5 SYSTEM LAYOUT DRAWING



PLUG-IN UNITS

For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.

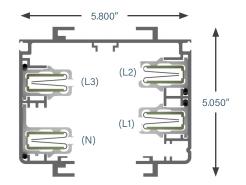


STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with "spring-pressure" type copper channel busbars contained in a full length insulator mounted on the interior walls. The aluminum extrusion acts as a 100% ground path. Each housing has a continuous access slot over its entire length for the insertion of turn-n-lock plug-in units. Housing configurations include 4-pole varieties and optional isolated ground. The straight sections join together using bus connectors which fit into the channels of the adjoining section. An Installation tool is used to force the blades into the busbar channels for a solid "spring-pressure" electrical connection.





MATERIAL

Extruded Aluminum Note: S5 housing includes corrosion resistant base coating

RATINGS

100% Ground Path 500 Amps 500T5C4/500T5CG: 600 Volt

LENGTH

T5: 10 ft, 20 ft; or custom lengths between 2 - 20 ft S5: 5 ft, 10 ft max. Consult factory for additional lengths

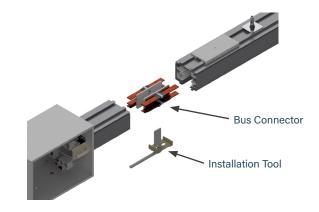
VOLTAGE DROP

Distributed load Single Phase 1V per 37 ft (.8PF) Three Phase 1V per 65 ft (.8PF)

WEIGHT

10 ft 4 pole: 104 lbs 10 ft 4 pole w/ ground: 109 lbs

US	
L1 or Phase A	Black
L2 or Phase B	Red
L3 or Phase C	Blue
Neutral	White
Ground	Green/Black



С

9.

Busway

500 AMP SYSTEMS

STRAIGHT SECTIONS: **PRODUCT NUMBERS** 500 U S **T5** С 4 S 0200 2. 3. 4. 5. 6. 8. 1. 7. Product Product Compatibility Material Polarization System Neutral/ Straight Frame Ground Туре Busbar 0 STD 11.

10. 11. Paint Color Tape Marking

1. System (standard of measure)	9. Busway Access (how plugs access the busway)
U US	C Continuous
2. Product Type (section component)	10. Paint Color (allows painting of the busway housing)
S Straight Section	STD Factory Mill Finish RED Paint Factory Red
3. Product Frame (maximum amperage)	BLK Paint Factory Black BLU Paint Factory Blue WHT Paint Factory White **RAL (please see page 4.103)
500 500 amps	NOTE: All Series-S housings include a clear corrosion resistant base coat-
4. Compatibility (frame compatibility)	ing, regardless of paint color selection.
T5T5 SystemK5T5 System (Limiting Strip)S5S5 SystemL5S5 System (Limiting Strip)	11. Tape Marking (colored tape on both sides of busway housing) 0 No Tape Marking 7 Tape Factory Blue
5. Material (busbar material)	3Tape Factory Black8Tape Factory Green4Tape Factory White9Tape Factory Yellow
C Copper	6 Tape Factory Red
6. Neutral/Ground Busbar (size of neutral busbar and/or ground)	
43 Phase plus NeutralG3 Phase plus Neutral plus Internal Ground Conductor	
7. Polarization (orientation of section for mating purposes)	
S Standard	
8. Straight Length (length of section)	
XXYY XX=feet, YY=inches	

EXAMPLES

US500T5C4S-0500C-STD0 = US System, Straight Section, 500 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 5 foot Straight Length, Continuous Busway Access, Factory Mill Finish, No Tape Marking

<u>US500K5CGS-0206C-P013</u> = US System, Straight Section, 500 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Connector, Standard Polarization, 2 foot 6 inch Straight Length, Continuous Busway Access, Painted RAL 1001, Factory Black Tape Marking



ELBOW SECTIONS

PRODUCT DESCRIPTION

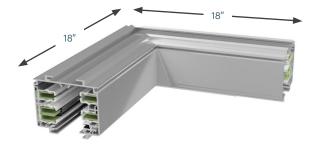
An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

Connection Accessories

(Ordered Separately) A Joint Kit (**page 4.108**) is used to make mechanical and electrical connections to adjacent busway sections.

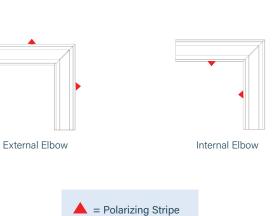
Weight 17.5 lbs





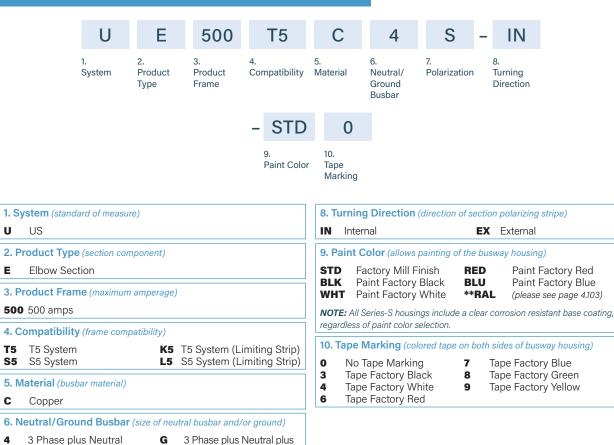
INTERNAL ELBOW

EXTERNAL ELBOW



7. Polarization (orientation of section for mating purposes)

ELBOW SECTIONS: PRODUCT NUMBERS



Internal Ground Conductor

EXAMPLES

Standard

S

UE500K5C4S-IN-STD7 = US System, Elbow Section, 500 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Factory Mill Finish, Factory Blue Tape Marking

<u>UE500T5CGS-EX-BLK0</u> = US System, Elbow Section, 500 amps, T5 System, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External Turning Direction, Painted Factory Black, No Tape Marking

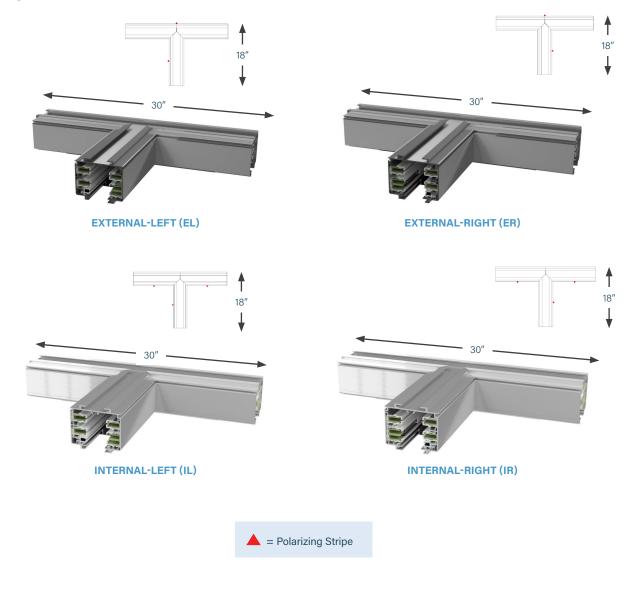


TEE SECTIONS

PRODUCT DESCRIPTION

Tee sections are used for creating a 90 degree branch leg in a busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. External tees are preferred. Tee sections are connected to adjacent busway sections using an installation tool and joint kit that includes a housing coupler and bus connector (ordered separately). This handles both the mechanical and electrical connection between a straight section and tee section of busway.

Weight 45.5 lbs



TEE SECTIONS: PRODUCT NUMBERS

	U	т	500	T5	С	4	S		IR	
	0		500	15	C	-	5			
	1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		rning rection	
				- STD	0					
				9. Paint Color	10. Tape Marking					
1. System (s	standard of measu	ıre)			8. Turnii	ng Directior	(direction of s	section p	olarizing s	tripe)
U US						ernal-Left ernal-Right			External-L External-F	
	Type (section co	mponent)					s painting of th			0
T Tee Se	ection					actory Mill				, actory Red
3. Product	Frame (maximun	n amperage)			-	Paint Factory		LU		actory Blue
500 500 ar	nps				WHT	Paint Factor	y White 🔹	*RAL	(please s	see page 4.103)
4. Compati	bility (frame com	patibility)				Series-S hous of paint color		clear corr	rosion resis	stant base coatir
T5 T5 Sy: S5 S5 Sy				imiting Strip) imiting Strip)	0	,	olored tape on	both sid	es of busw	vay housing)
5. Material	(busbar material)					Tape Marki			e Factor	
C Coppe	· · · · · · · · · · · · · · · · · · ·					be Factory B be Factory V			e Factor	
	Ground Busba	r (oizo of rout	ral buchar and	(or ground)		pe Factory R		-1-		, -
				Ŭ /						
4 3 Phas	se plus Neutral	G	3 Phase plus Internal Grou	ind Conductor						
7. Polarizat	ion (orientation of	f section for n	nating purposes	s)						
	ard									

EXAMPLES

<u>UT500T5C4S-IR-RED0</u> = US System, Tee Section, 500 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Red, No Tape Marking

<u>UT500K5CGS-EL-STD0</u> = US System, Tee Section, 500 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External-Left Turning Direction, Factory Mill Finish, No Tape Marking



END FEED UNITS

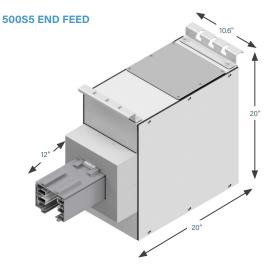
PRODUCT DESCRIPTION

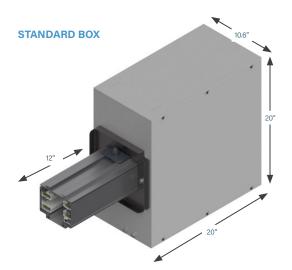
End power feed units connect to the end of the busway. A standard size, factory assembled unit consists of a steel junction box, with removable sides, connected to a 1 foot section of busway. The assembly includes connection lugs and a ground lug for wires (2) 250MCM or up to 600MCM for standard size boxes and large size boxes.

End power feed units are connected to adjacent busway sections using a housing coupler and bus connector (ordered separately).

Special need power feed units for confined spaces, as found in mission critical data centers, can also be designed and fabricated but may require minimum quantities.

Weight (for standard size end feed) 35 lbs





		BOXES	
LUGS	Standard	Large	Fused
Standard	S		
Double			
Bolt*	В		

*Bolt options include bolt, washer, nut. Lug not included.

*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on <u>downloads.starlinepower.com/starline/busway</u>





STANDARD "S"

BOLT "B"

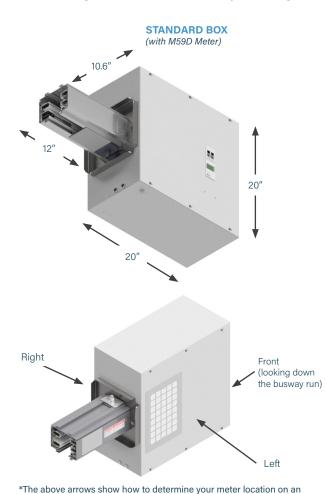


END FEED UNITS: METERING

PRODUCT DESCRIPTION

End power feed units connect to the end of the busway. A large size, factory assembled unit consists of a steel junction box, with removable side, connected to a 1 foot section of busway. The assembly includes connection lugs and a ground lug for wires (2) 250MCM or up to 600MCM for standard size boxes and large size boxes.

Integral CPM installed in the end feed provides power monitoring and alarm capabilities. The M50 models are for AC busway, while the M60 models are for DC busway. Nuisance tripping may be avoided using the current information to protect against overloading phases. The monitors also assist in the continuous challenge to balance the three phase loads. Once the meter is integrated, an automated email will be sent at 80% of full load as a warning to the user. This level may be changed in the field using the integrated webpage.



end feed (Refer to option 9. Meter Location on page 4.51 End Feed Units:

Product Numbers)

AC END	EEED	METED	OPTIONS
	FEED	IVIEIEN	UP HUNS

M51 Single Eth./WiFi, \leq 480V Y, \leq 277V Δ **M53** Single Eth./No WiFi, \leq 480V Y, \leq 277V Δ **M58** Dual Eth., \leq 480V Y, \leq 277V Δ **M59** Dual Eth/Dual Modbus, \leq 480V Y, \leq 277V Δ DC END FEED METER OPTIONS M61 Single Eth./WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC M63 Single Eth./No WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC M67 Dual Eth., single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC M69 Dual Eth/Dual Modbus, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

Series-S Note: End Feed metering not currently offered for Series-S systems. For custom inquiries, please contact your Starline representative."



END FEED UNITS: ACCESSORIES

IR WINDOWS

Starline Track Busway Polymer IR Window systems use a proprietary stack-up of advanced materials to ensure highest levels of safety and optimal infrared thermography of critical connections.

When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

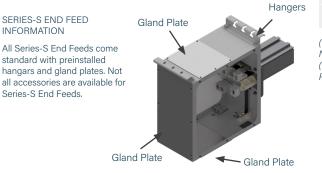
Safely and accurately scan connection points while the system is under load, without exposing the operator to live connections.

Note: Rectangular IR window option not available for Series-S systems. See S5 end feed accessories package for more information.



END FEED HANGERS & GLAND PLATES

End feed hangers & aluminum cable gland plates, located on the top, bottom and back of the end feed, can now be added as an optional accessory to Starline end feeds. These features make installation fast and easy and can be paired with other Starline end feed accessories.



FEATURES & BENEFITS

- Allows for safe IR scanning without powering down busway
- Complete system coverage with IR windows for plug-in units and end feeds
- End feed IR windows designed in 2 sizes for optimized viewing angles
- Cost effective design allows for quick end user ROI
- ETL Listed, CE Marked
- Lower TCO
- Enhanced safety
- Effective preventative maintenance

GENERAL SPECIFICATIONS	
Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Alu- minum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T5); IP54 (S5)
Max Operating Temperature	125°C
WINDOW DIMENSIONS	
End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 500A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17. M50 Options on **page 4.52** End Feed Units: Product Numbers)

(Refer to option 10. Accessories Package on **page 4.51** End Feed Units: Product Numbers)



END FEED UNITS: PRODUCT NUMBERS



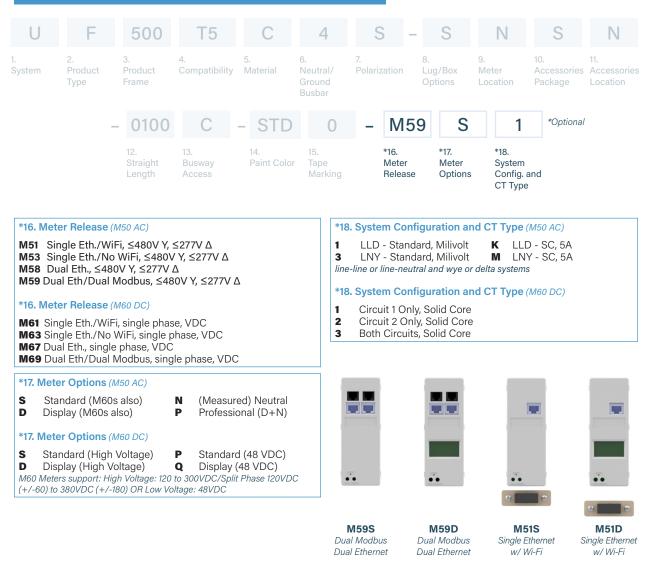
1. System (standard of measure)	10. Accessories Package (optional accessories for feed units)
U US	T5 Options: S Standard B (C+F)
2. Product Type (section component)	C IR Window - Circular P $(U+F)$
F End Feed	 F End Feed Hanger & Gland Plates U Starline Bect, IB window, 8"x12"
3. Product Frame (maximum amperage)	U Starline Rect. IR window, 8"x12" S5 Options:
500 500 amps	 F S5 Standard (includes hangars and gland plates) B S5 Standard + IR Window - Circular
4. Compatibility (frame compatibility)	11. Accessories Location (from the terminal, side with accessory)
T5T5 SystemK5T5 System (Limiting Strip)S5S5 SystemL5S5 System (Limiting Strip)	NNone (N/A)RRightLLeftFFront (consult the factory)
5. Material (busbar material)	12. Straight Length (length of section)
C Copper	0100 1 ft. (For other lengths, consult the factory)
6. Neutral/Ground Busbar (size of neutral busbar and/or ground)	13. Busway Access
4 3 Phase plus Neutral G 3 Phase plus Neutral plus Internal Ground Conductor	C Continuous
7. Polarization (orientation of section for mating purposes)	14. Paint Color (allows painting of the busway housing)
S Standard R Reversed	STDFactory Mill FinishREDPaint Factory RedBLKPaint Factory BlackBLUPaint Factory Blue
8. Lug/Box Options (standard/double/bolt lugs and box size)	WHT Paint Factory White **RAL (please see page 4.103)
S Standard Lugs, Standard Box B Bolt Lugs, Standard Box	NOTE: All End Feed enclosures are painted. "STD Factory Mill Finish" represents painted standard silver.
9. Meter Location (from the terminal, side with removable lid)	15. Tape Marking (colored tape on both sides of busway housing)
R Right L Left N None (N/A)	 No Tape Marking Tape Factory Black Tape Factory Black Tape Factory White Tape Factory White Tape Factory Red

EXAMPLE

UF500T5C4R-SLSN-0102C-BLK0 = US System, End Feed, 500 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Left Meter Location, Standard Accessory Package, No Accessories Location, 1 foot 2 inch Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking



END FEED METERING: PRODUCT NUMBERS



Note: Series - S end feeds not currently equipped with power monitoring. Consult factory for details.

EXAMPLE

<u>UF500T5C4R-SLSN-0102P-BLK0-M59S1</u> = US System, End Feed, 500 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard box, Left Meter Location, Standard Accessory Package, No Accessories Location, 1 foot 2 inch Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking, M59 Meter, Standard Meter Options, LLD - Standard, Milivolt



ABOVE FEED UNITS

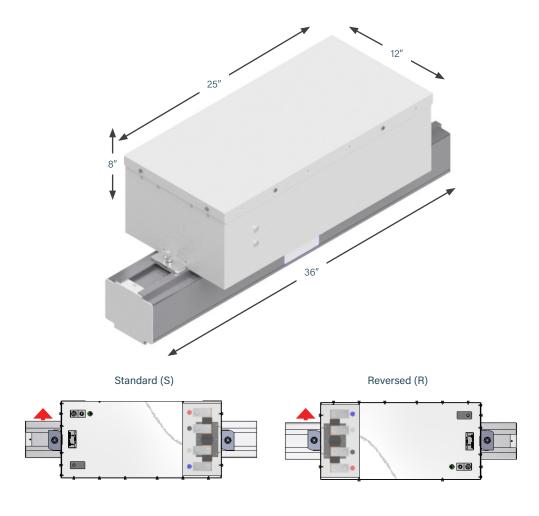
PRODUCT DESCRIPTION

The above feed power unit supplies power from the topside of the busway. Factory assembled unit consists of a 25 x 12 x 8 inch steel junction box mounted on top of a 36 inch section of busway.

*36 inches is the minimum and standard length of busway that an above feed is provided with.

Above feed units can be placed at the end or anywhere along a busway run. Connections to adjoining busway sections are made by the standard means, requiring couplers and bus connectors which are sold separately.

*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on <u>downloads.starlinepower.com/starline/busway</u>





ABOVE FEED UNITS: PRODUCT NUMBERS

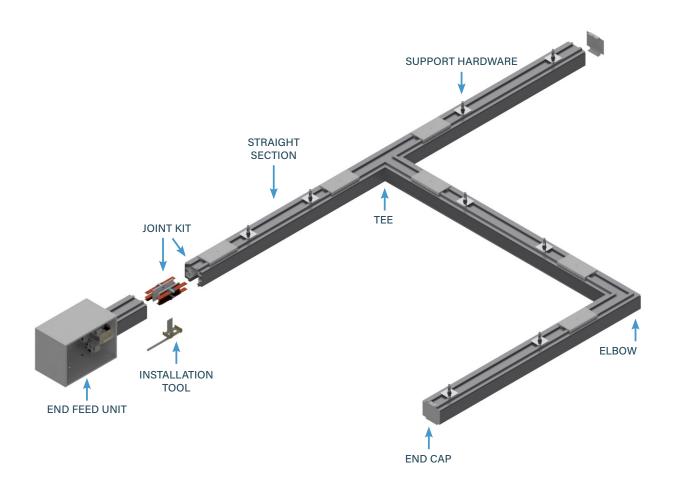
U	А	500	T5	С	4	S	-	S	Ν	S	Ν
System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polariza		ug/Box options	9. Meter Location	10. Accessorie Package	11. s Accessorie: Location
	- 0300	С	018	- STD	0	-	M59	S	•	*Optiona	al
	12. Straight Length	13. Busway Access	14. Feed Location	15. Paint Colo	16. r Tape Marking	Ν	17. Aeter Selease	*18. Meter Options		m Config. T Type	
-	m (standard of	measure)				2. Straight	•	(length of s	section)		
U US						300 3 fee					
	Ict Type (sect	tion compone	nt)			-		(how plugs	s access the	busway)	
	ove Feed				C						
	ict Frame (ma	aximum ampe	erage)							f the top feed)	
500 500					0	18 18 inch	nes (For o	ther length	is, consult th	e factory)	
	oatibility (fran	ne compatibili				5. Paint Co	olor (allow	s painting	of the busw	ay housing)	
	System System		K5 T5 SystemL5 S5 System		Strip) B	LK Pair	tory Mill	y Black	RED BLU	Paint Facto Paint Facto	ry Blue
5. Mater	r ial (busbar ma	aterial)					nt Factor		**RAL	(please see p	· ·
C Co	pper					OTE: All Ab presents pa				"STD Factory N	lill Finish"
6. Neutr	al/Ground B	Busbar (size d	of neutral busbar	and/or groun	d) [10	6. Tape Ma	arking (co	olored tape	e on both sia	es of busway h	ousing)
4 3 P	hase plus Ne	eutral		plus Neutral Ground Conc	plus o	No Ta Tape I	pe Marki Factory B Factory V	ng lack	7 Ta 8 Ta	ape Factory B ape Factory G ape Factory Y	lue ireen
7. Polari	zation (orienta	ation of sectio	n for mating pur	ooses)	6		actory R				
S Sta	indard		R Reverse	d	*	7. Meter F	Release (M50 Series	s Meters)		
8. Lug/E	Box Options	(standard/doเ	ıble/bolt lugs an	d box size)					V Y, ≤277V		
S Sta	ndard lugs, St	tandard box				153 Singl 158 Dual			180V Y, ≤2 77V Δ	//νΔ	
9. Meter	Location (fro	om the termin	al, side with rem	ovable lid)	N	159 Dual E	th/Dual	Modbus,	≤480V Y, :	≤277V ∆	
R Rig	ht I	L Left	N	None (N/A)						olay, measured	neutral,
10. Acce	ssories Pacl	kage (optiona	al accessories for	feed units)		udible alarm		temperatu			o utral
S Sta	ndard				S D				· · · ·	Measured) Ne Professional (I	
11. Acce	ssories Loca	tion (from th	e terminal, side v	vith removable	e lid) 🛛 🔭	9. System	n Config	uration a	nd CT Typ	e (line-line or li	ne-neutral
		R Right		Rear		nd wye or d	elta syster	ns)			
L Lef	L	Т Тор	F	Front	1			l, Milivolt l, Milivolt		LD - SC, 5A NY - SC, 5A	

EXAMPLE

UA500T5C4S-SRSN-0300C018-STD0-M59D3 = US System, Above Feed, 500 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Standard Lugs, Standard Box, Right Meter Location, Standard Accessory Package, No Accessory Location, 3 foot Straight Length, Continuous Busway Access, 18 inch Feed Location, Factory Mill Finish, No Tape Marking, M59 Meter, Display, LNY - Standard, Milivolt



T5 SYSTEM LAYOUT DRAWING

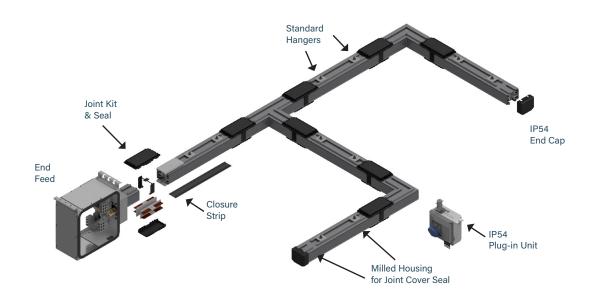


PLUG-IN UNITS

For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.



S5 SYSTEM LAYOUT DRAWING



PLUG-IN UNITS

For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.

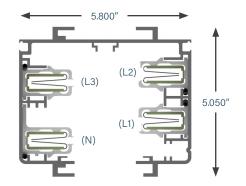


STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with "spring-pressure" type copper channel busbars contained in a full length insulator mounted on the interior walls. The aluminum extrusion acts as a 100% ground path. Each housing has a continuous access slot over its entire length for the insertion of turn-n-lock plugin units. Housing configurations include 4-pole varieties and optional isolated ground. The straight sections join together using bus connectors which fit into the channels of the adjoining section. An Installation tool is used to force the blades into the busbar channels for a solid "spring-pressure" electrical connection.





MATERIAL

Extruded Aluminum Note: S5 housing includes corrosion resistant base coating

RATINGS

100% Ground Path 600 Amps 600T5C4/600T5CG: 600 Volt

LENGTH

T5: 10 ft, 20 ft; or custom lengths between 2 - 20 ft S5: 5 ft, 10 ft max. Consult factory for additional lengths

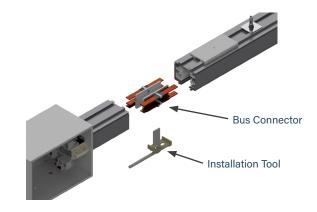
VOLTAGE DROP

Distributed load Single Phase 1V per 37 ft (.8PF) Three Phase 1V per 65 ft (.8PF)

WEIGHT

10 ft 4 pole: 115 lbs 10 ft 4 pole w/ ground: 120 lbs

US	
L1 or Phase A	Black
L2 or Phase B	Red
L3 or Phase C	Blue
Neutral	White
Ground	Green/Black



	FRAIGHT RODUCT											
	U	S	600	T5	С		4	S	-	0200	С	
	1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Materia	G	leutral/ iround usbar	7. Polarizatior	n	8. Straight	9. Busway	
				- S	STD	(C					
				10. Pair	nt Color	11. Tape Marki	ng					
	/stem (standard o	of measure)					-	ccess (how plu	gs a	ccess the bu	sway)	
U	US					C Continuous						
2. P	roduct Type (se	1 - C	ent)			10. Paint Color (allows painting of the busway housing)						
S	Straight Section	on				STD BLK		ry Mill Finish Factory Black			Paint Factor Paint Factor	
3. P	roduct Frame (r	maximum amp	erage)			WHT		Factory White			(please see pa	
600	600 amps							s-S housings inc		a clear corros	sion resistant b	ase o
4. C	ompatibility (fra	ame compatibil				regardless of paint color selection.						
T5 S5	T5 System S5 System		K5 T5 Syst	em (Limiting S tem (Limiting S	Strip)							
			LJ 00 0y3		(inp)	ONo Tape Marking7Tape Factory Blue3Tape Factory Black8Tape Factory Green						
	laterial (busbar n	naterial)						ctory White ctory Red		9 Tape	Factory Yelle	ЭW
C	Copper	Duch en ()	<i>c</i>			5	ape i d					
6. N	eutral/Ground 3 Phase plus N			ar and/or ground e plus Neutral p	·							
-+	5 Flidse plus N	eulidi		l Ground Condi								
7. Po S	olarization (orier Standard	ntation of section	on for mating p	urposes)								
-		(law anthe for all	()									
ð. 5	traight Length	liength of secti	ion)									

EXAMPLES

XXYY XX=feet, YY=inches

<u>US600T5C4S-0500C-STD0</u> = US System, Straight Section, 600 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 5 foot Straight Length, Continuous Busway Access, Factory Mill Finish, No Tape Marking

<u>US600K5CGS-0206C-P013</u> = US System, Straight Section, 600 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Connector, Standard Polarization, 2 foot 6 inch Straight Length, Continuous Busway Access, Painted RAL 1001, Factory Black Tape Marking



ELBOW SECTIONS

PRODUCT DESCRIPTION

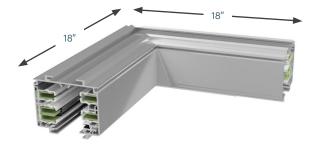
An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

Connection Accessories

(Ordered Separately) A Joint Kit (**page 4.108**) is used to make mechanical and electrical connections to adjacent busway sections.

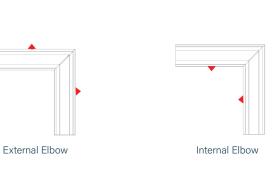
Weight 32 lbs





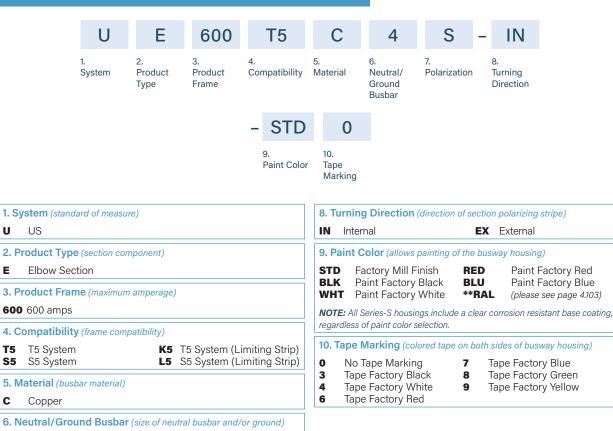
INTERNAL ELBOW

EXTERNAL ELBOW





ELBOW SECTIONS: PRODUCT NUMBERS



3 Phase plus Neutral plus

Internal Ground Conductor

G

7. Polarization (orientation of section for mating purposes)

EXAMPLES

3 Phase plus Neutral

Standard

4

S

UE600K5C4S-IN-STD7 = US System, Elbow Section, 600 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Factory Mill Finish, Factory Blue Tape Marking

<u>UE600T5CGS-EX-BLK0</u> = US System, Elbow Section, 600 amps, T5 System, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External Turning Direction, Painted Factory Black, No Tape Marking

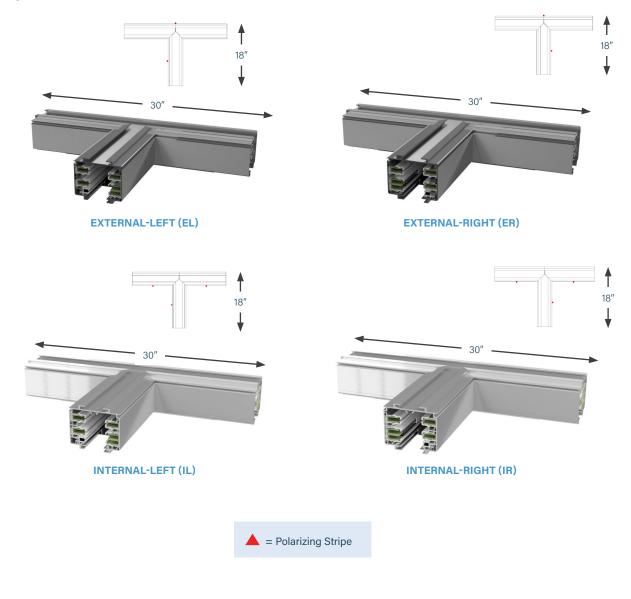


TEE SECTIONS

PRODUCT DESCRIPTION

Tee sections are used for creating a 90 degree branch leg in a busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. External tees are preferred. Tee sections are connected to adjacent busway sections using an installation tool and joint kit that includes a housing coupler and bus connector (ordered separately). This handles both the mechanical and electrical connection between a straight section and tee section of busway.

Weight 47.5 lbs



TEE SECTIONS: PRODUCT NUMBERS

		U	Т	600	T5	С	4	S	-	IR	
	1 S	System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarizati	on	8. Turning Direction	
					- STD	0					
					9. Paint Color	10. Tape Marking]				
1. Sys	tem (standar	d of measu	re)			8. Turni	ng Direction	(direction o	f sectio	n polarizing	stripe)
U	US						ernal-Left ernal-Right		EL ER	External- External-	
	oduct Type (section con	nponent)				Color (allows	painting of			•
Т	Tee Section						Factory Mill I		RED		Factory Red
3. Pro	duct Frame	e (maximum	amperage)			BLK	Paint Factory	/ Black	BLU	Paint	Factory Blue
600 (600 amps						Paint Factory		**RAL	()	see page 4.103)
4. Co	mpatibility (frame com	patibility)				ll Series-S hous is of paint color		a clear d	corrosion res	istant base coatii
	T5 System S5 System				imiting Strip) imiting Strip)	0	e Marking (co		n both :	sides of bus	way housing)
5. Ma	terial (busba	r material)					o Tape Markin			ape Facto	
С	Copper						pe Factory B pe Factory W			ape Facto ape Facto	
6. Ne	utral/Groun	d Busbar	(size of neut	ral busbar and,	/or ground)	6 Ta	pe Factory R	ed			
	3 Phase plus		G	3 Phase plus	Ŭ /						
7. Pola	arization (or	ientation of	section for m	ating purposes	5)						
S S	Standard										

EXAMPLES

<u>UT600T5C4S-IR-RED0</u> = US System, Tee Section, 600 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Red, No Tape Marking

<u>UT600K5CGS-EL-STD0</u> = US System, Tee Section, 600 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External-Left Turning Direction, Factory Mill Finish, No Tape Marking



END FEED UNITS

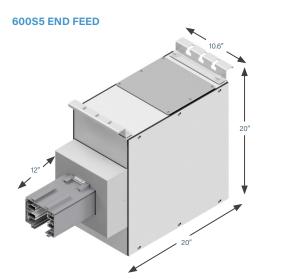
PRODUCT DESCRIPTION

End power feed units connect to the end of the busway. A standard size, factory assembled unit consists of a steel junction box, with removable sides, connected to a 1 foot section of busway. The assembly includes connection lugs and a ground lug for wires (2) 250MCM or up to 600MCM for standard size boxes and large size boxes.

End power feed units are connected to adjacent busway sections using a housing coupler and bus connector (ordered separately).

Special need power feed units for confined spaces, as found in mission critical data centers, can also be designed and fabricated but may require minimum quantities.

Weight (for standard size end feed) 52 lbs



STANDARD BOX

		BOXES	
LUGS	Standard	Large	Fused
Standard	S		
Double			
Bolt*	В		

*Bolt options include bolt, washer, nut. Lug not included.

*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on <u>downloads.starlinepower.com/starline/busway</u>





STANDARD "S"

BOLT "B"

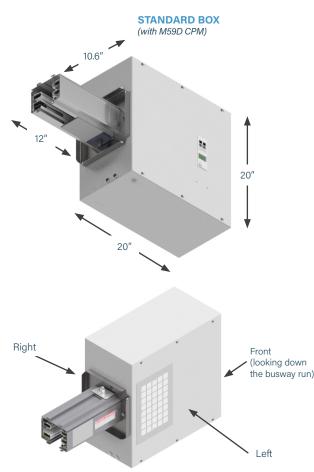


END FEED UNITS: METERING

PRODUCT DESCRIPTION

End power feed units connect to the end of the busway. A large size, factory assembled unit consists of a steel junction box, with removable side, connected to a 1 foot section of busway. The assembly includes connection lugs and a ground lug for wires (2) 250MCM or up to 600MCM for standard size boxes and large size boxes.

Integral CPM installed in the end feed provides power monitoring and alarm capabilities. The M50 models are for AC busway, while the M60 models are for DC busway. Nuisance tripping may be avoided using the current information to protect against overloading phases. The monitors also assist in the continuous challenge to balance the three phase loads. Once the meter is integrated, an automated email will be sent at 80% of full load as a warning to the user. This level may be changed in the field using the integrated webpage.



AC	END	FEED	METER	OPTIONS

M58	Single Eth./WiFi, \leq 480V Y, \leq 277V Δ Single Eth./No WiFi, \leq 480V Y, \leq 277V Δ Dual Eth., \leq 480V Y, \leq 277V Δ Dual Eth/Dual Modbus, \leq 480V Y, \leq 277V Δ
DC E	ND FEED METER OPTIONS
M61	Single Eth./WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
M63	Single Eth./No WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
M67	Dual Eth., single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
M69	Dual Eth/Dual Modbus, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
Sorioo	S Note: End Feed metering not currently offered for Series-S

systems. For custom inquiries, please contact your Starline representative.

*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 4.66** End Feed Units: Product Numbers)



END FEED UNITS: ACCESSORIES

IR WINDOWS

Starline Track Busway Polymer IR Window systems use a proprietary stack-up of advanced materials to ensure highest levels of safety and optimal infrared thermography of critical connections.

When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

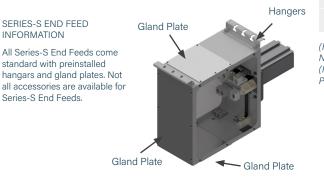
Safely and accurately scan connection points while the system is under load, without exposing the operator to live connections.

Note: Rectangular IR window option not available for Series-S systems. See S5 end feed accessories package for more information.



END FEED HANGERS & GLAND PLATES

End feed hangers & aluminum cable gland plates, located on the top, bottom and back of the end feed, can now be added as an optional accessory to Starline end feeds. These features make installation fast and easy and can be paired with other Starline end feed accessories.



FEATURES & BENEFITS

- Allows for safe IR scanning without powering down busway
- Complete system coverage with IR windows for plug-in units and end feeds
- End feed IR windows designed in 2 sizes for optimized viewing angles
- Cost effective design allows for quick end user ROI
- ETL Listed, CE Marked
- Lower TCO
- Enhanced safety
- Effective preventative maintenance

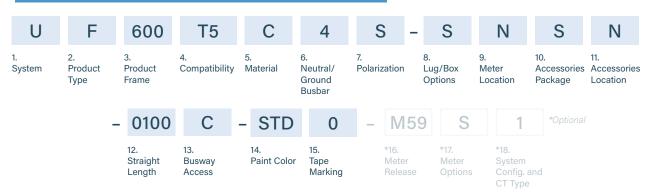
IR transmissive polymer, UL 94B HB Rated
Stainless Steel 304
Powder Coated Steel or Alu- minum (matched to busway or plug-in unit color)
IP3x (T5); IP54 (S5)
125°C
5"(127mm) x 7" (178mm)
8" (203mm) x 12" (305mm)

(Refer to option 17. M50 Options on **page 4.67** End Feed Units: Product Numbers)

(Refer to option 10. Accessories Package on **page 4.66** End Feed Units: Product Numbers)



END FEED UNITS: PRODUCT NUMBERS



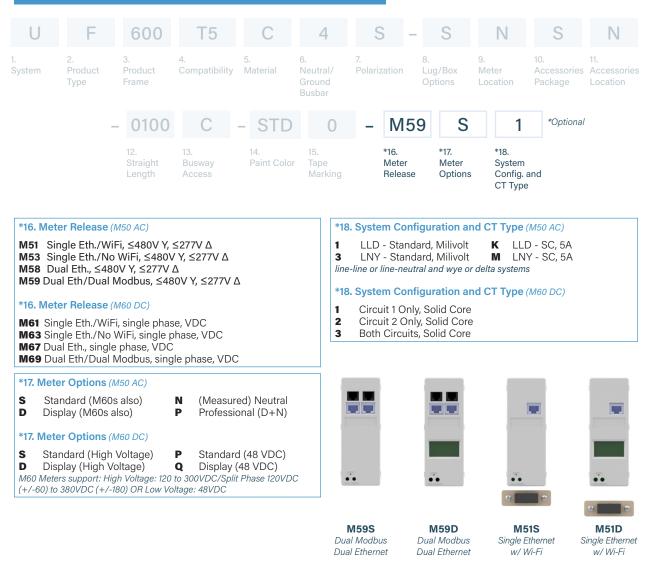
1. System (standard of measure)	10. Accessories Package (optional accessories for feed units)
U US	T5 Options:
2. Product Type (section component) F End Feed	SStandardB(C+F)CIR Window - CircularP(U+F)FEnd Feed Hanger & Gland Plates
3. Product Frame (maximum amperage)	U Starline Rect. IR window, 8"x12" S5 Options:
600 600 amps	F S5 Standard (includes hangars and gland plates)
4. Compatibility (frame compatibility)	B S5 Standard + IR Window - Circular
T5 T5 System K5 T5 System (Limiting	Strip) 11. Accessories Location (from the terminal, side with accessory)
S5 S5 System L5 S5 System (Limiting	Strip) N None (N/A) R Right
5. Material (busbar material)	
C Copper	12. Straight Length (length of section)
6. Neutral/Ground Busbar (size of neutral busbar and/or grou	0100 1 ft. (For other lengths, consult the factory)
4 3 Phase plus Neutral G 3 Phase plus Neutral Internal Ground Con	l plus
7. Polarization (orientation of section for mating purposes)	14. Paint Color (allows painting of the busway housing)
S Standard R Reversed	STD Factory Mill Finish RED Paint Factory Red BLK Paint Factory Black BLU Paint Factory Blue
8. Lug/Box Options (standard/double/bolt lugs and box size)	WHT Paint Factory White **RAL (please see page 4.103)
S Standard Lugs, Standard Box B Bolt Lugs, Standard	
9. Meter Location (from the terminal, side with removable lid)	represents painted standard silver.
R Right L Left	15. Tape Marking (colored tape on both sides of busway housing)
N None (N/A)	0No Tape Marking7Tape Factory Blue3Tape Factory Black8Tape Factory Green4Tape Factory White9Tape Factory Yellow6Tape Factory Red9Tape Factory Yellow

EXAMPLE

UF600T5C4R-SLSN-0102C-BLK0 = US System, End Feed, 600 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Left Meter Location, Standard Accessory Package, No Accessories Location, 1 foot 2 inch Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking



END FEED METERING: PRODUCT NUMBERS



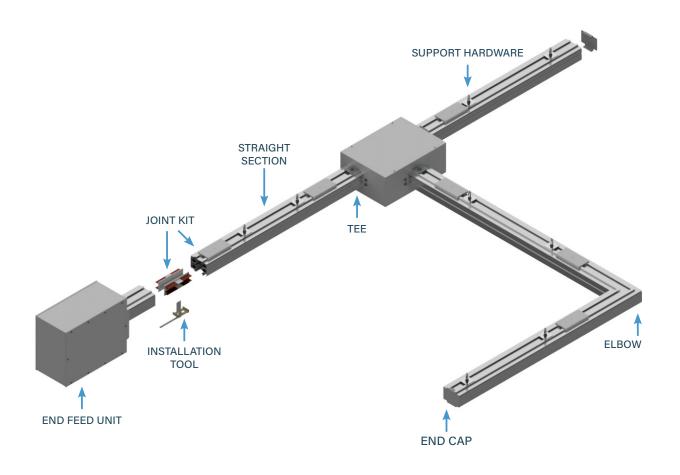
Note: Series - S end feeds not currently equipped with power monitoring. Consult factory for details.

EXAMPLE

<u>UF600T5C4R-SLSN-0102P-BLK0-M59S1</u> = US System, End Feed, 600 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard box, Left Meter Location, Standard Accessory Package, No Accessories Location, 1 foot 2 inch Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking, M59 Meter, Standard Meter Options, LLD - Standard, Milivolt



T5 SYSTEM LAYOUT DRAWING

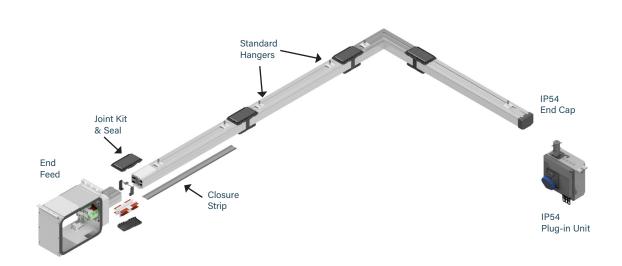


PLUG-IN UNITS

For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.



S5 SYSTEM LAYOUT DRAWING



PLUG-IN UNITS

For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.

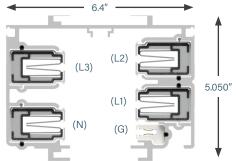


STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with you choice of copper or copperaluminum channel busbars contained in a full length insulator mounted on the interior walls. The aluminum extrusion acts as a 100% ground path. Each housing has a continuous access slot over its entire length for the insertion of plug-in units. Housing configurations include 4-pole varieties, with optional isolated ground. The housing sections join together using Bus Connectors which fit into the channels of the adjoining section. An Installation Tool is used to force the blades into the busbar channels for a solid "spring-pressure" electrical connection.





MATERIAL

Extruded Aluminum

Note: S5 housing includes corrosion resistant base coating

RATINGS

100% Ground Path 800 Amps, 600 Volt

LENGTH

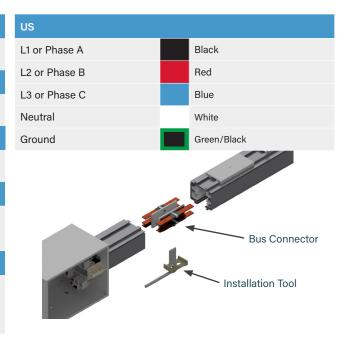
T5: 5 ft, Max 10 ft or custom lengths between 2 - 10 ft S5: 5 ft or 10 ft max. Consult factory for additional lengths

VOLTAGE DROP

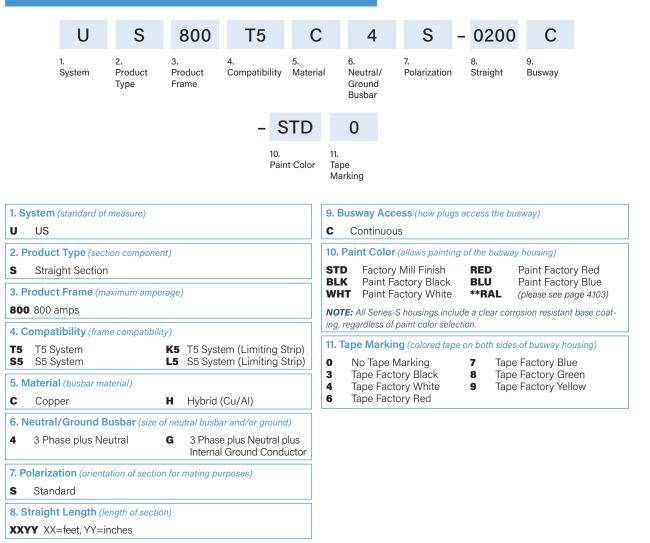
Distributed load Single Phase 1V per 15 ft (.8PF) Three Phase 1V per 25 ft (.8PF)

WEIGHT

10 ft 4 pole w/ standard ground: 204 lbs - Copper 10 ft 4 pole w/ standard ground: 142 lbs - Hybrid 10 ft 4 pole w/ copper ground: 215 lbs - Copper 10 ft 4 pole w/ copper ground: 152 lbs - Hybrid



STRAIGHT SECTIONS: PRODUCT NUMBERS



EXAMPLES

US800T5C4S-0500C-STD0 = US System, Straight Section, 800 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 5 foot Straight Length, Factory Mill Finish, No Tape Marking

US800K5CGS-0206C-P013 = US System, Straight Section, 800 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Netural plus Internal Ground Connector, Standard Polarization, 2 foot 6 inch Straight Length, Painted RAL 1001, Factory Black Tape Marking



ELBOW SECTIONS

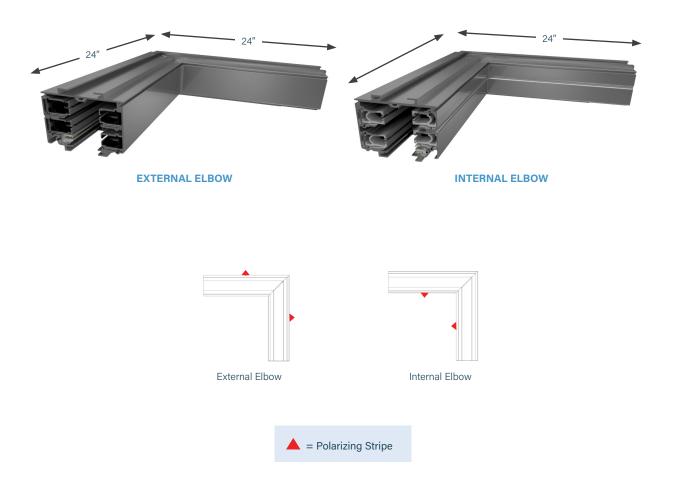
PRODUCT DESCRIPTION

An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

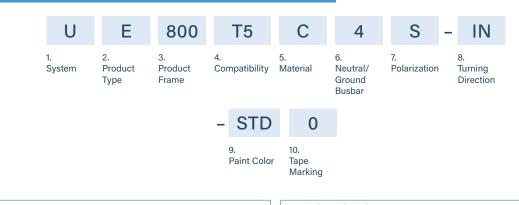
Connection Accessories

(Ordered Separately) A Joint Kit (**page 4.108**) is used to make mechanical and electrical connections to adjacent busway sections.

Weight 51 lbs - Hybrid



ELBOW SECTIONS: PRODUCT NUMBERS



1. System (standard of measure)		8. Turning Direction (direct	ion of section polarizing stripe)
U US		IN Internal	EX External
2. Product Type (section compone	ent)	9. Paint Color (allows paintin	g of the busway housing)
E Elbow Section		STD Factory Mill Finish	RED Paint Factory Red
3. Product Frame (maximum amp	erage)	BLK Paint Factory Black WHT Paint Factory White	
800 800 amps		NOTE: All Series-S housings inc	clude a clear corrosion resistant base coat-
4. Compatibility (frame compatibi	ity)	ing, regardless of paint color sel	ection.
T5 T5 System	K5 T5 System (Limiting Strip)	10. Tape Marking (colored ta	ape on both sides of busway housing)
S5 S5 System	L5 S5 System (Limiting Strip)	No Tape Marking Tage Factors Disclo	7 Tape Factory Blue
5. Material (busbar material)		3 Tape Factory Black4 Tape Factory White	8 Tape Factory Green9 Tape Factory Yellow
C Copper	H Hybrid (Cu/Al)	6 Tape Factory Red	
6. Neutral/Ground Busbar (size	of neutral busbar and/or ground)		
4 3 Phase plus Neutral	G 3 Phase plus Neutral plus Internal Ground Conductor		
7. Polarization (orientation of secti	on for mating purposes)		
Chanadanal			

S Standard

EXAMPLES

UE800K5C4S-IN-STD7 = US System, Elbow Section, 800 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Factory Mill Finish, Factory Blue Tape Marking

UE800T5CGS-EX-BLK0 = US System, Elbow Section, 800 amps, T5 System, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External Turning Direction, Painted Factory Black, No Tape Marking

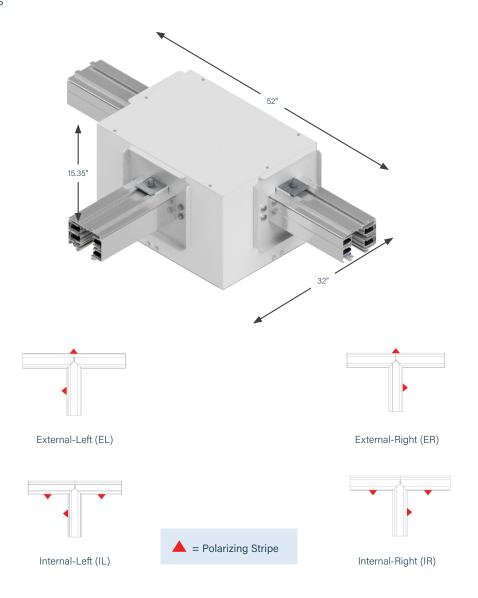


TEE SECTIONS

PRODUCT DESCRIPTION

Tee sections are used for creating a 90 degree branch leg in a busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. External tees are preferred. Tee sections are connected to adjacent busway sections using an installation tool and joint kit that includes a housing coupler and bus connector (ordered separately). This handles both the mechanical and electrical connection between a straight section and tee section of busway.

Weight 180 lbs



TEE SECTIONS: PRODUCT NUMBERS

		U	Т	800	T5	С	4	S	-	IR	
		1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polariza	tion	8. Turning Direction	
					- STD	0					
					9. Paint Color	10. Tape Marking	9				
1. Sy	stem (standa	rd of measur	re)			8. Turni	ng Directior	(direction	of sectio	n polarizing	stripe)
U	US						ernal-Left ernal-Right			External- External-	
2. Pr	oduct Type	(section com	nponent)				0				0
Т	Tee Section	1					Color (allows				
3. Pr	oduct Fram	e (maximum	amperage)				Factory Mill Paint Factory		RED BLU		Factory Red Factory Blue
800	800 amps					WHT	Paint Factor	/ White	**RAI	(please	see page 4.103)
4. Co	mpatibility	(frame comp	oatibility)				ll Series-S hous rdless of paint (corrosion re	sistant base coa
T5 S5	T5 System S5 System				imiting Strip) imiting Strip)		e Marking (co			sides of bus	way housing)
5. Ma	aterial (busba	ar material)					o Tape Marki			ape Facto	
с	Copper		н	Hybrid (Cu/A	d)	4 Ta	pe Factory B pe Factory V	/hite		ape Facto ape Facto	
6. Ne	eutral/Grou	nd Busbar	(size of neut	ral busbar and,	/or ground)	6 Ta	pe Factory R	ed			
4	3 Phase plu	s Neutral	G	3 Phase plus Internal Grou	Neutral plus nd Conductor						
7. Po	larization (o	rientation of	section for n	nating purposes	s)						
s	Standard										

EXAMPLES

<u>UT800T5H4S-IR-RED0</u> = US System, Tee Section, 800 amps, T5 System, Hybrid Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Red, No Tape Marking

<u>UT800K5HGS-EL-STD0</u> = US System, Tee Section, 800 amps, T5 System-K5 Limiting Strip, Hybrid Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External-Left Turning Direction, Factory Mill Finish, No Tape Marking

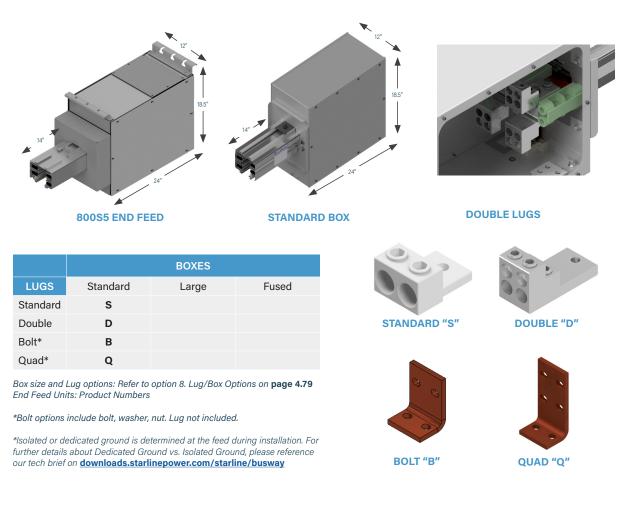


END FEED UNITS

PRODUCT DESCRIPTION

End power feed units connect to the end of the busway. A standard size, factory assembled unit consists of a steel junction Standard end power feed units connect to the end of the busway. Factory assembled unit consists of a 18.5 x 24 x 12 inch steel junction box, with removable side, connected to an 14 inch section of busway. Certain assemblies include ground lugs for wires up to 350MCM and connection lugs that can handle up to (2) 600MCM wires (CU) or (2) 600MCM wires (AL). Reverse end feed units are for connection to the opposite end of the busway section (polarizing strip faces to right as viewed from end of unit). Junction box is sized such that one or two 4 inch conduits can be installed in the end of the box.End power feed units are connected to adjacent busway sections using a housing coupler and bus connector (ordered separately). Special need power feed units for confined spaces, as found in mission critical data centers, can also be designed and fabricated but may require minimum quantities.

Weight 84.5 lbs

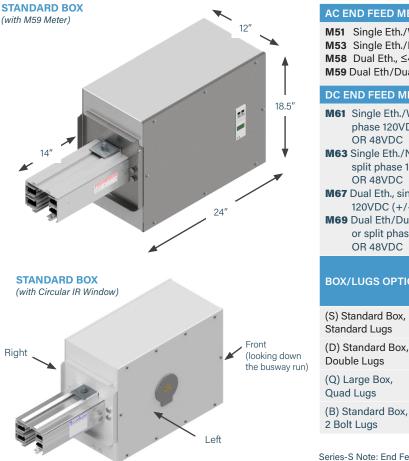




END FEED UNITS: METERING

PRODUCT DESCRIPTION

Standard end power feed units connect to the end of the busway. Factory assembled unit consists of a 18.5 x 24 x 12 inch steel junction box, with removable sides, connected to a 14 inch section of busway. Certain assemblies include ground lugs for wires up to 350MCM and connection lugs that can handle up to (2) 600MCM wires (CU) or (2) 600MCM wires (AL). Reverse end feed units are for connection to the opposite end of the busway section (polarizing strip faces to right as viewed from end of unit). Integral CPM installed in the end feed provides power monitoring and alarm capabilities. The M50 models are for AC busway, while the M60 models are for DC busway. Nuisance tripping may be avoided using the current information to protect against overloading phases. The monitors also assist in the continuous challenge to balance the three phase loads. Once the meter is integrated, an automated email will be sent at 80% of full load as a warning to the user. This level may be changed in the field using the integrated webpage.



AC END FEED METER OPTIONS

M53 Single Eth./No W M58 Dual Eth., ≤480V M59 Dual Eth/Dual Mo	I Single Eth./WiFi, ≤480V Y, ≤277V Δ 3 Single Eth./No WiFi, ≤480V Y, ≤277V Δ 8 Dual Eth., ≤480V Y, ≤277V Δ 9 Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ					
DC END FEED METER	ROPTIONS					
 M61 Single Eth./WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC M63 Single Eth./No WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC M67 Dual Eth., single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC M69 Dual Eth/Dual Modbus, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC M69 Dual Eth/Dual Modbus, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC 						
BOX/LUGS OPTION Accessory Accessory (opposite lids) lid)						
(S) Standard Box, Standard Lugs	Y X X X					
(D) Standard Box, Double Lugs	х	х	х			
(Q) Large Box, Quad Lugs	х	х	х			

Series-S Note: End Feed metering not currently offered for Series-S systems. For custom inquiries, please contact your Starline representative.

Х

*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on page 4.79 End Feed Units: Product Numbers)

Х

Х



END FEED UNITS: ACCESSORIES

IR WINDOWS

Starline Track Busway Polymer IR Window systems use a proprietary stack-up of advanced materials to ensure highest levels of safety and optimal infrared thermography of critical connections.

When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

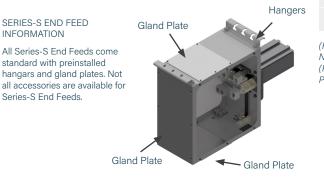
Safely and accurately scan connection points while the system is under load, without exposing the operator to live connections.

Note: Rectangular IR window option not available for Series-S systems. See S5 end feed accessories package for more information.



END FEED HANGERS & GLAND PLATES

End feed hangers & aluminum cable gland plates, located on the top, bottom and back of the end feed, can now be added as an optional accessory to Starline end feeds. These features make installation fast and easy and can be paired with other Starline end feed accessories.



FEATURES & BENEFITS

- Allows for safe IR scanning without powering down busway
- Complete system coverage with IR windows for plug-in units and end feeds
- End feed IR windows designed in 2 sizes for optimized viewing angles
- Cost effective design allows for quick end user ROI
- ETL Listed, CE Marked
- Lower TCO
- Enhanced safety
- Effective preventative maintenance

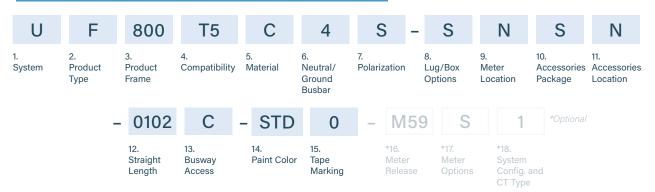
GENERAL SPECIFICATIONS	
Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Alu- minum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T5); IP54 (S5)
Max Operating Temperature	125°C
WINDOW DIMENSIONS	
End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 500A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17. M50 Options on **page 4.80** End Feed Units: Product Numbers)

(Refer to option 10. Accessories Package on **page 4.79** End Feed Units: Product Numbers)



END FEED UNITS: PRODUCT NUMBERS



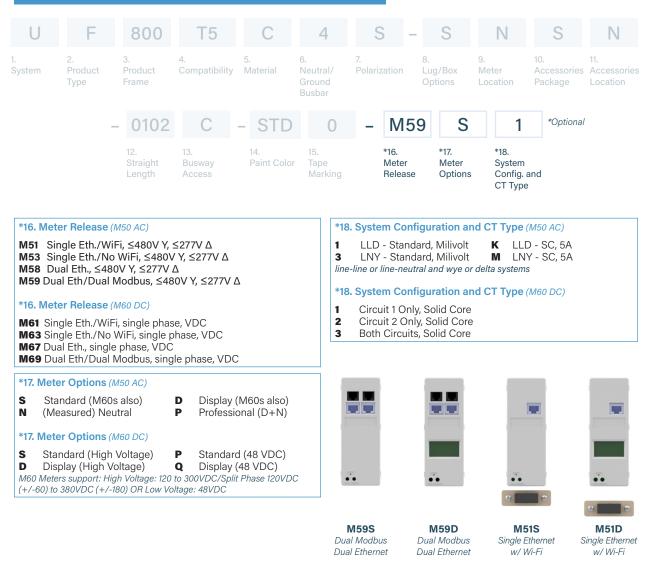
U US 2. Product Type (section component) F F End Feed 3. Product Frame (maximum amperage) B00 800 amps 800 800 amps S Standard B (C+F) C IR Window - Circular P (U+F) F End Feed S Standard B (C+F) Solo 800 amps S Standard (includes hangars and gland plates) S Standard + IR Window - Circular 4. Compatibility (frame compatibility) T5 System K5 T5 System (Limiting Strip) 5. Material (busbar material) C C Copper H Hybrid (Cu/AI)Strip) 6. Neutral/Ground Busbar (size of neutral busbar and/or ground) 12. Straight Length (length of section) Oto2 14 inches (For other lengths, consult the factory) 13. Busway Access C Continuous C Continuous 7. Polarization (orientation of section for mating purposes) S Standard M R Reversed BLU NOTE: All End Feed enclosures are painted. "STD Factory Mill Finish" represents painted standard silver. 8. Lug/Box Options (standard/double/bot lugs, and box size) MOTE: All End Feed enclosures are painted. "STD Factory Mill Finish" 8. Boit Lugs, Standard Box Q Quad lugs, Large box 15. Tape Marking T		
S Standard B (C+F) C IR Window - Circular P (U+F) F End Feed IR Window - Circular P (U+F) S End Feed Starline Rect. IR window, 8"x12" Starline Rect. IR window, 8"x12" S Starline Rect. IR window, 8"x12" Starline Rect. IR window, 8"x12" Starline Rect. IR window, 8"x12" S Starline Rect. IR window, 8"x12" Starline Rect. IR window, 8"x12" Starline Rect. IR window, 8"x12" S Starline Rect. IR window, 8"x12" Starline Rect. IR window, 8"x12" Starline Rect. IR window, 8"x12" S Starline Rect. IR window, 8"x12" Starline Rect. IR window, 8"x12" Starline Rect. IR window, 8"x12" S Standard the S Starline Rect. IR window, 8"x12" Starline Rect. IR window, 8"x12" S Standard the S Starline Rect. IR window - Circular In Accessories Location (from the terminal, side with accessory) N None (N/A) R Right L Left F Front (consult the factory) I I. Accessories Location (from the terminal, side with removable lid) R Repersed Standard lugs, Standard box D Double lugs, Standard box <t< td=""><td>1. System (standard of measure)</td><td>10. Accessories Package (optional accessories for feed units)</td></t<>	1. System (standard of measure)	10. Accessories Package (optional accessories for feed units)
2. Product Type (section component) F End Feed 3. Product Frame (maximum amperage) 800 800 amps 4. Compatibility (frame compatibility) 75 T5 System K5 T5 System (Limiting Strip) 55 S5 System L5 S5 System (Limiting Strip) 5. Material (busbar material) C Opper C Copper H Hybrid (Cu/Al)Strip) 5. Neutral/Ground Busbar (size of neutral busbar and/or ground) 12. Straight Length (length of section) 9. Neutral/Ground Busbar (size of neutral busbar and/or ground) 13. Busway Access 6. Standard R Reversed 8. Lug/Box Options (standard/double/bolt lugs and box size) Standard lugs, Standard box D Q Quad lugs, Large box 8. Meter Location (from the terminal, side with removable lid) R Right L Left 8. Right N None (N/A) L Left 8. Right N None (N/A) L Left 9. None (N/A) R Tape Factory Black B Tape Factory Slack B Tape Factory Slack B Tape Factory Velicw 9. None (N/A) R Right L Left 9. None (N/A) R Paint Factory Velicw	U US	
U Starline Rect. IŘ window, 8"x12" 3. Product Frame (maximum amperage) S5 Options: 800 800 amps F 4. Compatibility (frame compatibility) F 75 T5 System K5 T5 System (Limiting Strip) 55 S5 System L5 S5 System (Limiting Strip) 5. Material (busbar material) T C Copper H Hybrid (Cu/Al)Strip) 5. Neutral/Ground Busbar (size of neutral busbar and/or ground) 4 3 Phase plus Neutral G 3 Phase plus Neutral forund Conductor 7. Polarization (orientation of section for mating purposes) S Standard lugs, Standard box B. Lug/Box Options (standard/double/bolt lugs and box size) S. Standard lugs, Standard Box Q Quad lugs, Large box B. Boit Lugs, Standard Box Q Quad lugs, Large box B. Meter Location (from the terminal, side with removable lid) R Right L Left None (N/A) S Tape Factory Bluck S Might L Left None (N/A) S Tape Factory Bluck <td>2. Product Type (section component)</td> <td> ()</td>	2. Product Type (section component)	()
3. Product Frame (maximum amperage) S5 Options: 800 800 amps S5 Options: 4. Compatibility (frame compatibility) F S5 Standard (includes hangars and gland plates) B S5 Standard Linet (includes hangars and gland plates) B S5 Standard + IR Window - Circular 1. Accessories Location (from the terminal, side with accessory) N None (N/A) R Right L Left F Front (consult the factory) 12. Straight Length (length of section) O102 14 inches (For other lengths, consult the factory) 13. Busway Access C Continuous 7. Polarization (orientation of section for mating purposes) S Standard R Reversed 8. Lug/Box Options (standard/double/bolt lugs and box size) Double lugs, Standard box Q Quad lugs, Large box 9. Meter Location (from the terminal, side with removable lid) NOTE: All End Feed enclosures are painted. "STD Factory Mill Finish" represents painted standard silver. 9. Meter Location (from the terminal, side with removable lid) NOT ape Marking (colored tape on both sides of busway housing) 9. Tape Factory Bluck 8 Tape Factory Bluck 9. Tape Factory Vellow 9 Tape Factory Yellow	F End Feed	
B00 800 amps 4. Compatibility (frame compatibility) 7. Polarization (orientation of section for mating purposes) S Standard S Standard lugs, Standard box D Double lugs, Standard box B Double lugs, Standard box B Double lugs, Standard box B Double lugs, Standard box C Q uad lugs, Large box	3. Product Frame (maximum amperage)	
If 5 T5 System K5 T5 System (Limiting Strip) S5 S5 System L5 S5 System (Limiting Strip) S. Material (busbar material) C Copper H Hybrid (Cu/Al)Strip) S. Neutral/Ground Busbar (size of neutral busbar and/or ground) R 3 Phase plus Neutral G 3 Phase plus Neutral plus Internal Ground Conductor 7. Polarization (orientation of section for mating purposes) S Standard R Reversed 8. Lug/Box Options (standard/double/bolt lugs and box size) D Double lugs, Standard box Q Quad lugs, Large box 9. Meter Location (from the terminal, side with removable lid) R Right L Left R Right L Left Tape Factory Black Tape Factory Blue 9. None (N/A) Tape Factory White 9 Tape Factory Slack 8 Tape Factory Slack	800 800 amps	
S5 S6 S7 D Double lugs, S1 S7 D S7 Factory S1 BLK Paint Factory Black BLU Paint Factory Blue S7 Paint Factory S1 S7 Paint Factory S1 S6 S7 S7 S7 S7 D S7 D S7	4. Compatibility (frame compatibility)	11. Accessories Location (from the terminal, side with accessory)
C Copper H Hybrid (Cu/Al)Strip) 6. Neutral/Ground Busbar (size of neutral busbar and/or ground) 12. Straight Length (length of section) 6. Neutral/Ground Busbar (size of neutral busbar and/or ground) 13. Busway Access 6. Neutral of a 3 Phase plus Neutral G 3 Phase plus Neutral plus Internal Ground Conductor 7. Polarization (orientation of section for mating purposes) C C continuous 8. Lug/Box Options (standard/double/bolt lugs and box size) Standard lugs, Standard box Paint Factory Black 8. Lug/Sox Options (standard double/bolt lugs, standard box D Double lugs, Standard box Paint Factory Black 9. Meter Location (from the terminal, side with removable lid) L Left 15. Tape Marking (colored tape on both sides of busway housing) 9. Meter Location (N/A) L Left 15. Tape Factory Black 8 Tape Factory Blue		
C Copper H Hybrid (Cu/Al)Strip) 6. Neutral/Ground Busbar (size of neutral busbar and/or ground) 6 3 Phase plus Neutral G 3 Phase plus Neutral plus Internal Ground Conductor 7. Polarization (orientation of section for mating purposes) S Standard R Reversed 8. Lug/Box Options (standard/double/bolt lugs and box size) S Standard lugs, Standard box D Double lugs, Standard box D 9. Meter Location (from the terminal, side with removable lid) L Left 15. Tape Marking (colored tape on both sides of busway housing) 9. Meter Location (IN/A) L Left 15. Tape Factory Black 8 Tape Factory Black 8 Tape Factory Black 8 Tape Factory Stendard	5. Material (busbar material)	12 Straight Length (length of section)
 6. Neutral/Ground Busbar (size of neutral busbar and/or ground) 4 3 Phase plus Neutral G 3 Phase plus Neutral plus Internal Ground Conductor 7. Polarization (orientation of section for mating purposes) S Standard R Reversed 8. Lug/Box Options (standard/double/bolt lugs and box size) S Standard lugs, Standard box B Bolt Lugs, Standard Box Q Quad lugs, Large box 9. Meter Location (from the terminal, side with removable lid) R Right L Left None (N/A) 13. Busway Access C Continuous 14. Paint Color (allows painting of the busway housing) STD Factory Mill Finish BLU Paint Factory Black Meter Location (from the terminal, side with removable lid) None (N/A) 	C Copper H Hybrid (Cu/Al)Strip)	
4 3 Phase plus Neutral G 3 Phase plus Neutral plus Internal Ground Conductor 7. Polarization (orientation of section for mating purposes) R Reversed 8. Lug/Box Options (standard/double/bolt lugs and box size) Standard lugs, Standard box Paint Factory Black 8. Lug/Sox Options (standard/double/bolt lugs and box size) D Double lugs, Standard box Paint Factory White 8. Meter Location (from the terminal, side with removable lid) L Left 15. Tape Marking (colored tape on both sides of busway housing) 9. Meter Location (N/A) Tape Factory Black Tape Factory Black Tape Factory Black	6. Neutral/Ground Busbar (size of neutral busbar and/or ground)	
Standard R Reversed S. Lug/Box Options (standard/double/bolt lugs and box size) Standard lugs, Standard box D Double lugs, Standard box D Double lugs, Standard box Paint Factory Black BLU **RAL Paint Factory Blue (please see page 4.103) S. Standard lugs, Standard box D Double lugs, Standard box Q Quad lugs, Large box NOTE: All End Feed enclosures are painted. "STD Factory Mill Finish" represents painted standard silver. Paint Factory Blue (please see page 4.103) B. Meter Location (from the terminal, side with removable lid) L Left 15. Tape Marking (colored tape on both sides of busway housing) O No Tape Marking 7 Tape Factory Blue 3 3 Tape Factory Black 8 Tape Factory Blue 4 Tape Factory White 9 Tape Factory Stellew		
BLK Paint Factory Black BLU Paint Factory Blue 8. Lug/Box Options (standard/double/bolt lugs and box size) BLK Paint Factory Black BLU Paint Factory Blue 8. Lug/Box Options (standard/double/bolt lugs and box size) Double lugs, Standard box D Double lugs, Standard box NOTE: All End Feed enclosures are painted. "STD Factory Mill Finish" 8. Bolt Lugs, Standard Box Q Quad lugs, Large box NOTE: All End Feed enclosures are painted. "STD Factory Mill Finish" 9. Meter Location (from the terminal, side with removable lid) L Left 15. Tape Marking (colored tape on both sides of busway housing) 0 No Tape Marking 7 Tape Factory Blue 3 Tape Factory Black 8 Tape Factory Green 4 Tape Factory White 9 Tape Factory Yellow	7. Polarization (orientation of section for mating purposes)	14. Paint Color (allows painting of the busway housing)
S Standard lugs, Standard box D Double lugs, Standard box Q Duble lugs, Standard box Q B Bolt Lugs, Standard Box Q Quad lugs, Large box D Meter Location (from the terminal, side with removable lid) R Right Luft None (N/A) L L Left 3 Tape Factory Black 4 Tape Factory White 9 Tape Factory Yellow	S Standard R Reversed	
B Bolt Lugs, Standard Box Q Quad lugs, Large box represents painted standard silver. 9. Meter Location (from the terminal, side with removable lid) Image: Colored tape on both sides of busway housing) 0 None (N/A) Image: Colored tape on both sides of busway housing) 0 No Tape Marking 7 15. Tape Marking 7 Tape Factory Blue 3 Tape Factory Black 8 4 Tape Factory White 9 7 Tape Factory Yellow	8. Lug/Box Options (standard/double/bolt lugs and box size)	WHT Paint Factory White **RAL (please see page 4.103)
R Right L Left N None (N/A) 0 No Tape Marking 3 Tape Factory Black 4 Tape Factory White 9 Tape Factory Yellow		
None (N/A) 3 Tape Factory Black 8 Tape Factory Green 4 Tape Factory White 9 Tape Factory Yellow	9. Meter Location (from the terminal, side with removable lid)	15. Tape Marking (colored tape on both sides of busway housing)
	J	3 Tape Factory Black 8 Tape Factory Green

EXAMPLE

UF800T5C4R-SLSN-0102C-BLK0 = US System, End Feed, 800 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization- Standard Lugs, Standard Box, Left Meter Location, Standard Accessory Package, No Accessories Location, 1 foot 2 inch Straight Length, Painted Factory Black, No Tape Marking



END FEED METERING: PRODUCT NUMBERS



Note: Series - S end feeds not currently equipped with power monitoring. Consult factory for details.

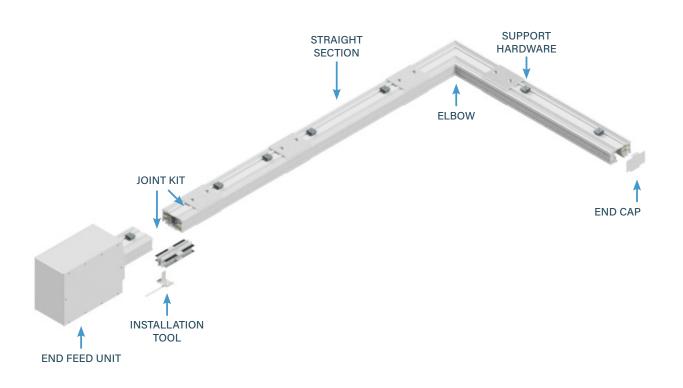
EXAMPLE

UF800T5C4R-SLSN-0102C-BLK0-M47S1 = US System, End Feed, 800 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization-Standard Lugs, Standard Box, Left Meter Location, Standard Accessory Package, No Accessories Location, 1 foot 2 inch Straight Length, Painted Factory Black, No Tape Marking, 47 Meter, Standard Meter Options, LLD - Standard, Milivolt



1000T5/S5 SYSTEMS

T5 SYSTEM LAYOUT DRAWING

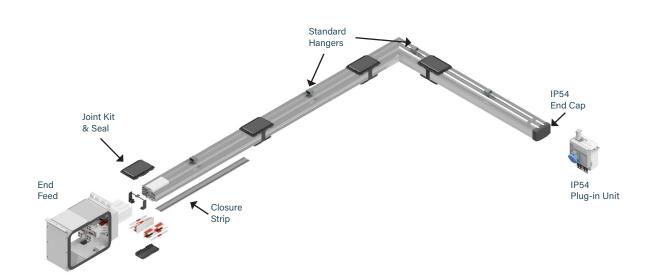


PLUG-IN UNITS

For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.



S5 SYSTEM LAYOUT DRAWING



PLUG-IN UNITS

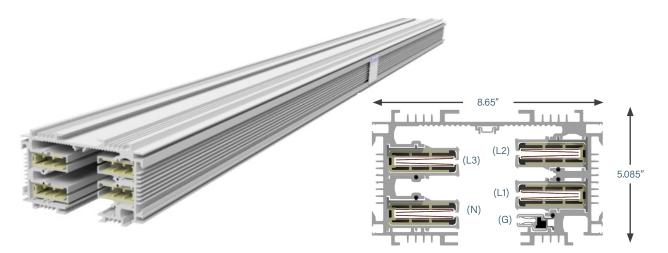
For further information on applicable S5 plug-in unit options, please visit the **Plug-In Units** section.



STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with you copper-aluminum channel busbars contained in a full length insulator mounted on the interior walls. The aluminum extrusion acts as a 100% ground path. Each housing has a continuous access slot over its entire length for the insertion of plugin units. Housing configurations include 4-pole varieties, with optional isolated ground. The housing sections join together using Bus Connectors which fit into the channels of the adjoining section. An Installation Tool is used to force the blades into the busbar channels for a solid "spring-pressure" electrical connection.



MATERIAL

Extruded Aluminum Note: S5 housing includes corrosion resistant base coating

RATINGS

100% Ground Path 1000 Amps 600 Volt

LENGTH

T5: 5 ft, 10 ft max. Custom lengths between 2 - 10 ft S5: 5 ft, 10 ft max. Consult factory for additional lengths

VOLTAGE DROP

Distributed load Single Phase 1V per 15 ft (.8PF) Three Phase 1V per 25 ft (.8PF)

WEIGHT

10 ft 4 pole w/ standard ground: 195.5 lbs - Hybrid 10 ft 4 pole w/ copper ground: 210 lbs - Hybrid

US	
L1 or Phase A	Black
L2 or Phase B	Red
L3 or Phase C	Blue
Neutral	White
Ground	Green/Black

STRAIGHT SECTIONS: **PRODUCT NUMBERS** U S 1K0 **T**5 н 4 S 0200 С 2. 3. 4. 5. 6. 8. 9. 1. 7. Product Product Compatibility Material Polarization System Neutral/ Straight Busway Frame Ground Туре Busbar 0 STD 10, 11. Paint Color Tape Marking

1. System (standard of measure)	9. Busway Access (how plugs access the busway)			
U US	C Continuous			
2. Product Type (section component)	10. Paint Color (allows painting of the busway housing)			
S Straight Section	STD Factory Mill Finish RED Paint Factory Red			
3. Product Frame (maximum amperage)	BLK Paint Factory Black BLU Paint Factory Blue WHT Paint Factory White **RAL (please see page 4.103)			
1K0 1000 amps	NOTE: All Series-S housings include a clear corrosion resistant base coat-			
4. Compatibility (frame compatibility)	ing, regardless of paint color selection.			
T5T5 SystemK5T5 System (Limiting Strip)S5S5 SystemL5S5 System (Limiting Strip)	11. Tape Marking (colored tape on both sides of busway housing)0 None			
5. Material (busbar material)				
H Hybrid (Cu/Al)				
6. Neutral/Ground Busbar (size of neutral busbar and/or ground)				
4 3 Phase plus Neutral G 3 Phase plus Neutral plus Internal Ground Conductor				
7. Polarization (orientation of section for mating purposes)				
S Standard				
8. Straight Length (length of section)				
XXYY XX=feet, YY=inches				

EXAMPLES

US1K0K5HGS-1000C-C010 = US System, Straight Section, 1000 amps, T5 System, Hybrid, 3 Phase plus Neutral, Standard Polarization, 5 foot Straight Length, Factory Mill Finish, No Tape Marking

<u>US1K0K5HGS-1000R-C010</u> = US System, Straight Section, 1000 amps, T5 System-K5 Limiting Strip, Hybrid, 3 Phase plus Neutral plus Internal Ground Connector, Standard Polarization, 10 foot Straight Length, Painted RAL 1001, No Tape Marking



ELBOW SECTIONS

PRODUCT DESCRIPTION

An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

Connection Accessories

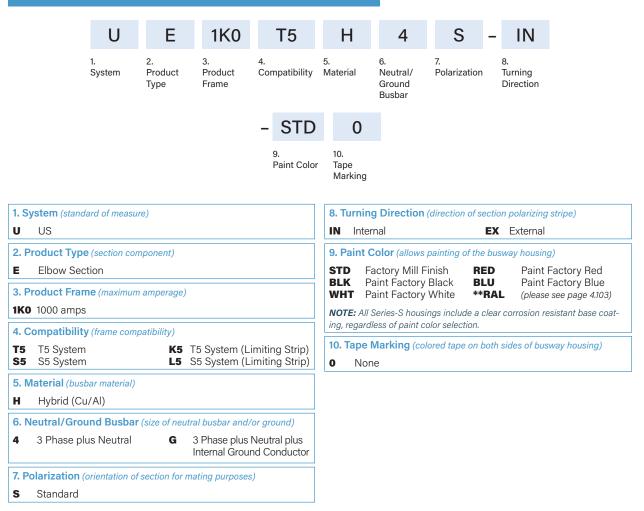
(Ordered Separately)

A Joint Kit (**page 4.108**) is used to make mechanical and electrical connections to adjacent busway sections.

Weight 77 lbs



ELBOW SECTIONS: PRODUCT NUMBERS



EXAMPLES

UE1K0K5H4S-IN-BLU0 = US System, Elbow Section, 1000 amps, T5 System-K5 Limiting Strip, Hybrid, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Painted Factory Blue, No Tape Marking

<u>UE1K0T5HGS-EX-STD0</u> = US System, Elbow Section, 1000 amps, T5 System, Hybrid, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External Turning Direction, Factory Mill Finish, No Tape Marking

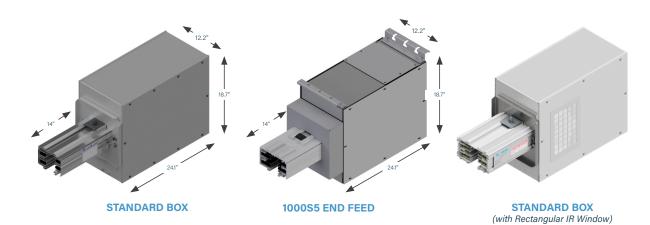


END FEED UNITS

PRODUCT DESCRIPTION

Standard end power feed units connect to the end of the busway. Factory assembled unit consists of a 18.7 x 24.125 x 12.15 inch steel junction box that is removable for easier installation, also with removable side, connected to an 14 inch section of busway. Certain assemblies include ground lugs for wires up to 350MCM and mechanical lugs that can accommodate up to (4) 600MCM cables per phase. Compression lug capable feeds are available upon request. Reverse end feed units are for connection to the opposite end of the busway section (polarizing strip faces to right as viewed from end of unit). Junction box is sized such that three 4 inch conduits can be installed in the end of the box. End power feed units are connected to adjacent busway sections using a housing coupler and bus connector (ordered separately). Special need power feed units for confined spaces, as found in mission critical data centers, can also be designed and fabricated but may require minimum quantities.

Weight 100.5 lbs (76 lbs without busway stub)



		BOXES	
LUGS	Standard	Large	Fused
Standard	S		
Double			
Bolt*	В		

Box size and Lug options: Refer to option 8. Lug/Box Options on **page 4.90** End Feed Units: Product Numbers

*Bolt options include bolt, washer, nut. Lug not included.

*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on <u>downloads.starlinepower.com/starline/busway</u>







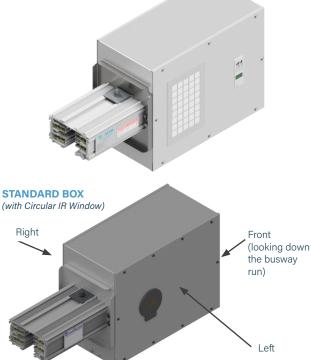
END FEED UNITS: METERING

PRODUCT DESCRIPTION

Factory assembled unit consists of a 18.7 x 24.125 x 12.15 inch steel junction box that is removable for easier installation, also with removable side, connected to an 14 inch section of busway. Certain assemblies include ground lugs for wires up to 350MCM and mechanical lugs that can accommodate up to (4) 600MCM cables per phase. Compression lug capable feeds are available upon request. Reverse end feed units are for connection to the opposite end of the busway section (polarizing strip faces to right as viewed from end of unit).

Integral CPM installed in the end feed provides power monitoring and alarm capabilities. The M50 models are for AC busway, while the M60 models are for DC busway. Nuisance tripping may be avoided using the current information to protect against overloading phases. The monitors also assist in the continuous challenge to balance the three phase loads. Once the meter is integrated, an automated email will be sent at 80% of full load as a warning to the user. This level may be changed in the field using the integrated webpage.





AC END FEED METER OPTIONS

DC END FEED METER OPTIONS

- M61 Single Eth./WiFi, single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M63 Single Eth./No WiFi, single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M67 Dual Eth., single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M69 Dual Eth/Dual Modbus, single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

BOX/LUGS OPTION	1 Meter or Accessory	1 Meter & 1 Accessory (opposite lids)	1 Meter & 1 Accessory (same lid)
(S) Standard Box, Standard Lugs	х	Х	x
(B) Standard Box, Bolt Lugs	Х	Х	х

Series-S Note: End Feed metering not currently offered for Series-S systems. For custom inquiries, please contact your Starline representative.

*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 4.90** End Feed Units: Product Numbers)



END FEED UNITS: ACCESSORIES

IR WINDOWS

Starline Track Busway Polymer IR Window systems use a proprietary stack-up of advanced materials to ensure highest levels of safety and optimal infrared thermography of critical connections.

When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

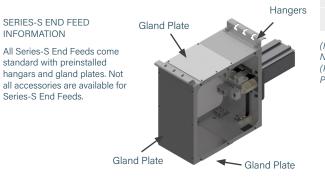
Safely and accurately scan connection points while the system is under load, without exposing the operator to live connections.

Note: Rectangular IR window option not available for Series-S systems. See S5 end feed accessories package for more information.



END FEED HANGERS & GLAND PLATES

End feed hangers & aluminum cable gland plates, located on the top, bottom and back of the end feed, can now be added as an optional accessory to Starline end feeds. These features make installation fast and easy and can be paired with other Starline end feed accessories.



FEATURES & BENEFITS

- Allows for safe IR scanning without powering down busway
- Complete system coverage with IR windows for plug-in units and end feeds
- End feed IR windows designed in 2 sizes for optimized viewing angles
- Cost effective design allows for quick end user ROI
- ETL Listed, CE Marked
- Lower TCO
- Enhanced safety
- Effective preventative maintenance

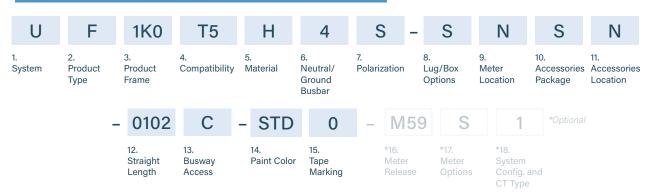
transmissive polymer, UL IB HB Rated
ainless Steel 304
owder Coated Steel or Alu- inum (matched to busway or ug-in unit color)
3x (T5); IP54 (S5)
5°C
(127mm) x 7" (178mm)
(203mm) x 12" (305mm)

(Refer to option 17. Meter Options on **page 4.91** End Feed Units: Product Numbers)

(Refer to option 10. Accessories Package on **page 4.90** End Feed Units: Product Numbers)

Track Busway Product Selection Guide | T1-T5 US Systems

END FEED UNITS: PRODUCT NUMBERS



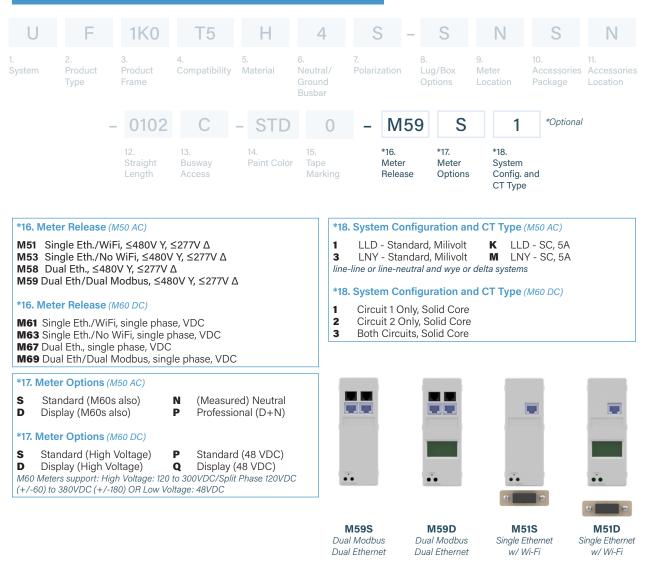
1. Sy	stem (standard of measure)		10. Accessories Package (optional accessories for feed units)			
U	US		T5 Options:			
2. Pr F	roduct Type (section component) End Feed		SStandardB(C+F)CIR Window - CircularP(U+F)FEnd Feed Hanger & Gland Plates			
3. Pr	roduct Frame (maximum amperage)	U Starline Rect. IR window, 8"x12"			
1K0	1000 amps		S5 Options: F S5 Standard (includes hangars and gland plates)			
4. Co	ompatibility (frame compatibility)		 B S5 Standard + IR Window - Circular 			
T5 S5		T5 System (Limiting Strip) S5 System (Limiting Strip)	11. Accessories Location (from the terminal, side with accessory)			
5. M	aterial (busbar material)		N None (N/A) R Right L Left F Front (consult the factory)			
н	Hybrid (Cu/Al)Strip)		12. Straight Length (length of section)			
6. N	6. Neutral/Ground Busbar (size of neutral busbar and/or ground)		0102 14 inches (For other lengths, consult the factory)			
4	3 Phase plus Neutral G	3 Phase plus Neutral plus Internal Ground Conductor	13. Busway Access			
7. Po	plarization (orientation of section for	mating purposes)	C Continuous			
S	Standard R	Reversed	14. Paint Color (allows painting of the busway housing)			
	ug/Box Options (standard/double/	Ŭ /	STD Factory Mill Finish RED Paint Factory Red BLK Paint Factory Black BLU Paint Factory Blue WHT Paint Factory White **RAL (please see page 4.103)			
S	Standard lugs, Standard box B	Bolt lugs, Standard box				
9. Meter Location (from the terminal, side with removable lid)		de with removable lid)	NOTE: All End Feed enclosures are painted. "STD Factory Mill Finish" represents painted standard silver.			
R N	Right L None (N/A)	Left	15. Tape Marking (colored tape on both sides of busway housing)			

EXAMPLE

<u>UFIK0T5H4R-SRLL-0102C-BLK0</u> = US System, End Feed, 1000 amps, T5 System, Hybrid, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Right Meter Location, Circular IR Window + Angled Meter Lid, Left Accessory Location, 1 foot 2 inch Straight Length, Painted Factory Black, No Tape Marking



END FEED METERING: PRODUCT NUMBERS



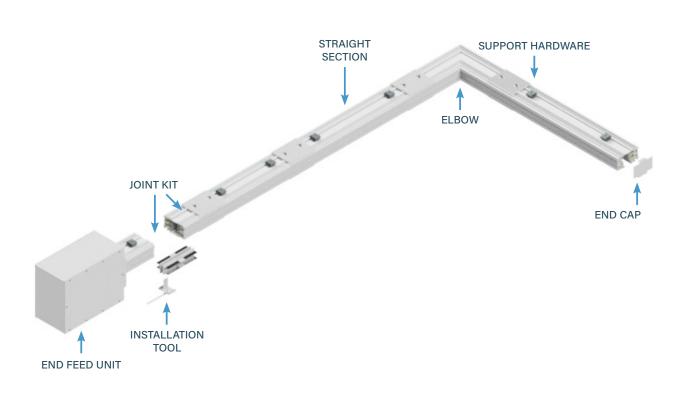
Note: Series - S end feeds not currently equipped with power monitoring. Consult factory for details.

EXAMPLE

UF1K0T5H4R-SRLL-0102C-BLK0-M59S1= US System, End Feed, 1000 amps, T5 System, Hybrid, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Right Meter Location, Circular IR Window + Angled Meter Lid, Left Accessory Location, 1 foot 2 inch Straight Length, Painted Factory Black, No Tape Marking, M59 Meter, Standard Meter Options, LLD - Standard, 5 amp



T5 SYSTEM LAYOUT DRAWING

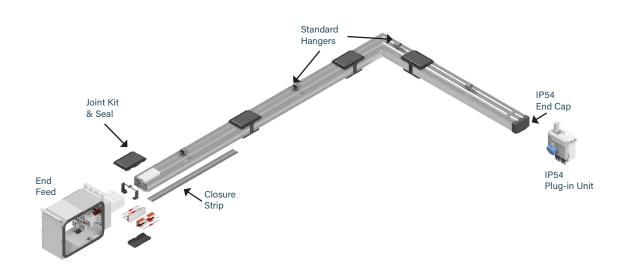


PLUG-IN UNITS

For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.



S5 SYSTEM LAYOUT DRAWING



PLUG-IN UNITS

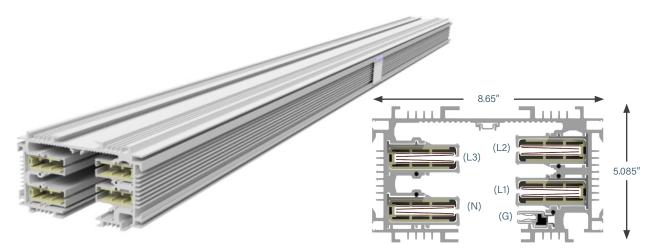
For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.



STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight section consists of an extruded aluminum shell with you copper-aluminum channel busbars contained in a full length insulator mounted on the interior walls. The aluminum extrusion acts as a 100% ground path. Each housing has a continuous access slot over its entire length for the insertion of plugin units. Housing configurations include 4-pole varieties, with optional isolated ground. The housing sections join together using Bus Connectors which fit into the channels of the adjoining section. An Installation Tool is used to force the blades into the busbar channels for a solid "spring-pressure" electrical connection.



MATERIAL

Powder Coated Extruded Aluminum Note: S5 housing includes corrosion resistant base coating

RATINGS

100% Ground Path 1200 Amps 600 Volt

LENGTH

T5: 5 ft, 10 ft max. Custom lengths between 2 - 10 ft S5: 5 ft, 10 ft max. Consult factory for additional lengths

VOLTAGE DROP

Distributed load Single Phase 1V per 15ft (.8PF) Three Phase 1V per 25ft (.8PF)

WEIGHT

10 ft 4 pole w/ standard ground: 195.5 lbs - Hybrid 10 ft 4 pole w/ copper ground: 210 lbs - Hybrid

US	
L1 or Phase A	Black
L2 or Phase B	Red
L3 or Phase C	Blue
Neutral	White
Ground	Green/Black

С

1200 AMP SYSTEMS

STRAIGHT SECTIONS: PRODUCT NUMBERS U S 1K2 T5 H 4 1. 2. 3. 4. 5. 6.

1. System	2. Product Type	3. Product Frame	4. Compatibil	5. ity Materia	I	6. Neutral/ Ground Busbar	7. Polarization	8. Straight	9. Busway
			-	STD		0			
				10. Paint Color	11. Tape Mar	e king			

S – 0200

1. System (standard of meas	sure)	9. Busway Access (how plugs access the busway)
U US		C Continuous
2. Product Type (section co	omponent)	10. Paint Color (allows painting of the busway housing)
S Straight Section		STD Factory Mill Finish RED Paint Factory Red
3. Product Frame (maximu	ım amperage)	BLK Paint Factory Black BLU Paint Factory Blue WHT Paint Factory White **RAL (please see page 4.103)
1K2 1200 amps		NOTE: All Series-S housings include a clear corrosion resistant base coat-
4. Compatibility (frame con	npatibility)	ing, regardless of paint color selection.
T5 T5 System S5 S5 System	K5 T5 System (Limiting Strip)L5 S5 System (Limiting Strip)	
5. Material (busbar material))	
H Hybrid (Cu/Al)		
6. Neutral/Ground Busba	ar (size of neutral busbar and/or ground)	7
4 3 Phase plus Neutral	G 3 Phase plus Neutral plus Internal Ground Conductor	
7. Polarization (orientation of	of section for mating purposes)]
S Standard		
8. Straight Length (length	of section)	7
XXYY XX=feet, YY=inches	S	

EXAMPLES

US1K2T5H4S-0500C-STD0 = US System, Straight Section, 1200 amps, T5 System, Hybrid, 3 Phase plus Neutral, Standard Polarization, 5 foot Straight Length, Painted Factory Silver, No Tape Marking

<u>US1K2K5HGS-0206C-P010</u> = US System, Straight Section, 1200 amps, T5 System-K5 Limiting Strip, Hybrid, 3 Phase plus Neutral plus Internal Ground Connector, Standard Polarization, 2 foot 6 inch Straight Length, Painted RAL 1001, No Tape Marking



ELBOW SECTIONS

PRODUCT DESCRIPTION

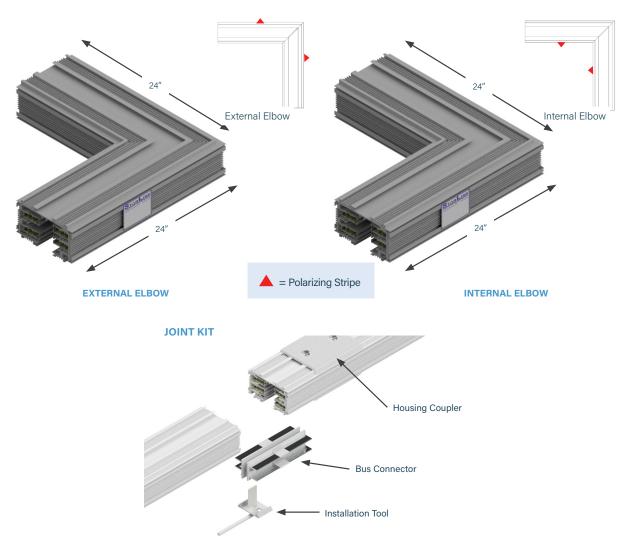
An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

Connection Accessories

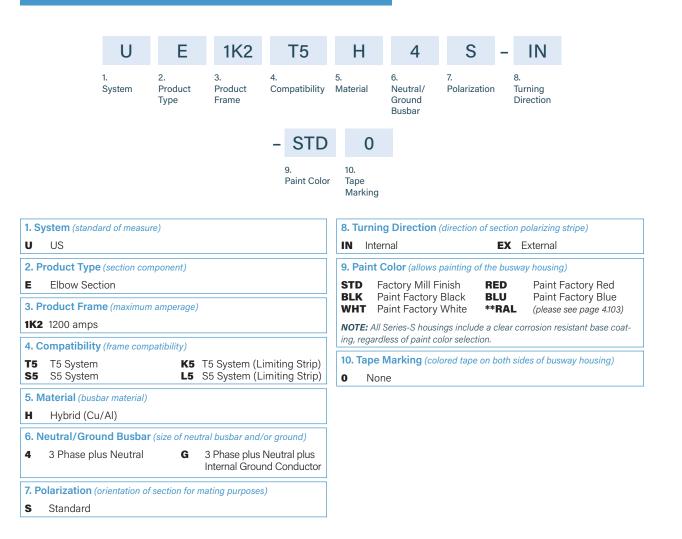
(Ordered Separately)

A Joint Kit (**page 4.108**) is used to make mechanical and electrical connections to adjacent busway sections.

Weight 77 lbs



ELBOW SECTIONS: PRODUCT NUMBERS



EXAMPLES

UE1K2K5H4S-IN-BLU0 = US System, Elbow Section, 1200 amps, T5 System-K5 Limiting Strip, Hybrid, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Painted Factory Blue, No Tape Marking

<u>UE1K2T5HGS-EX-STD0</u> = US System, Elbow Section, 1200 amps, T5 System, Hybrid, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External Turning Direction, Painted Factory Silver, No Tape Marking

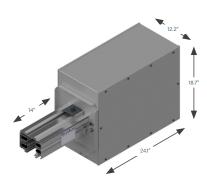


END FEED UNITS

PRODUCT DESCRIPTION

Standard end power feed units connect to the end of the busway. Factory assembled unit consists of a 18.7 x 24.125 x 12.15 inch steel junction box that is removable for easier installation, also with removable side, connected to an 14 inch section of busway. Certain assemblies include ground lugs for wires up to 350MCM and mechanical lugs that can accommodate up to (4) 600MCM cables per phase. Compression lug capable feeds are available upon request. Reverse end feed units are for connection to the opposite end of the busway section (polarizing strip faces to right as viewed from end of unit). Junction box is sized such that three 4 inch conduits can be installed in the end of the box. End power feed units are connected to adjacent busway sections using a housing coupler and bus connector (ordered separately). Special need power feed units for confined spaces, as found in mission critical data centers, can also be designed and fabricated but may require minimum quantities.

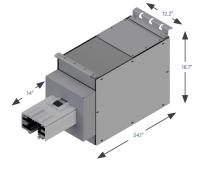
Weight 100.5 lbs (76 lbs without busway stub)



STANDARD BOX



STANDARD BOX (with Rectangular IR Window)



1200S5 END FEED

		BOXES	
LUGS	Standard	Large	Fused
Standard	S		
Double			
Bolt	В		

Box size and Lug options: Refer to option 8. Lug/Box Options on **page 4.101** End Feed Units: Product Numbers

*Bolt options include bolt, washer, nut. Lug not included.

*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on <u>downloads.starlinepower.com/starline/busway</u>



STANDARD "S"



STANDARD "B"

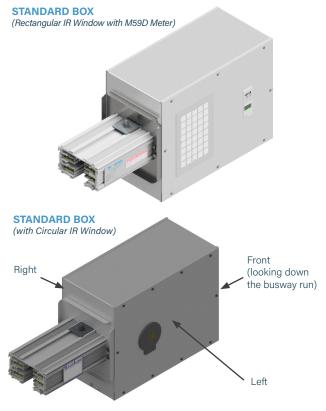


END FEED UNITS: METERING

PRODUCT DESCRIPTION

Factory assembled unit consists of a 18.7 x 24.125 x 12.15 inch steel junction box that is removable for easier installation, also with removable side, connected to an 14 inch section of busway. Certain assemblies include ground lugs for wires up to 350MCM and mechanical lugs that can accommodate up to (4) 600MCM cables per phase. Compression lug capable feeds are available upon request. Reverse end feed units are for connection to the opposite end of the busway section (polarizing strip faces to right as viewed from end of unit).

Integral CPM installed in the end feed provides power monitoring and alarm capabilities. The M50 models are for AC busway, while the M60 models are for DC busway. Nuisance tripping may be avoided using the current information to protect against overloading phases. The monitors also assist in the continuous challenge to balance the three phase loads. Once the meter is integrated, an automated email will be sent at 80% of full load as a warning to the user. This level may be changed in the field using the integrated webpage.



*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 4.101** End Feed Units: Product Numbers)

AC END FEED METER OPTIONS

M51 Single Eth./WiFi, ≤480V Y, ≤277V Δ
M53 Single Eth./No WiFi, ≤480V Y, ≤277V Δ
M58 Dual Eth., ≤480V Y, ≤277V Δ
M59 Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ

DC END FEED METER OPTIONS

- M61 Single Eth./WiFi, single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M63 Single Eth./No WiFi, single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M67 Dual Eth., single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC
- M69 Dual Eth/Dual Modbus, single phase, 120VDC 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

BOX/LUGS OPTION	1 Meter or Accessory	1 Meter & 1 Accessory (opposite lids)	1 Meter & 1 Accessory (same lid)
(S) Standard Box, Standard Lugs	Х	Х	Х
(B) Standard Box, Bolt Lugs	Х	Х	х

Series-S Note: End Feed metering not currently offered for Series-S systems. For custom inquiries, please contact your Starline representative."



END FEED UNITS: ACCESSORIES

IR WINDOWS

Starline Track Busway Polymer IR Window systems use a proprietary stack-up of advanced materials to ensure highest levels of safety and optimal infrared thermography of critical connections.

When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

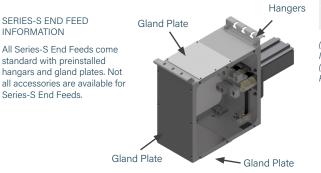
Safely and accurately scan connection points while the system is under load, without exposing the operator to live connections.

Note: Rectangular IR window option not available for Series-S systems. See S5 end feed accessories package for more information.



END FEED HANGERS & GLAND PLATES

End feed hangers & aluminum cable gland plates, located on the top, bottom and back of the end feed, can now be added as an optional accessory to Starline end feeds. These features make installation fast and easy and can be paired with other Starline end feed accessories.



FEATURES & BENEFITS

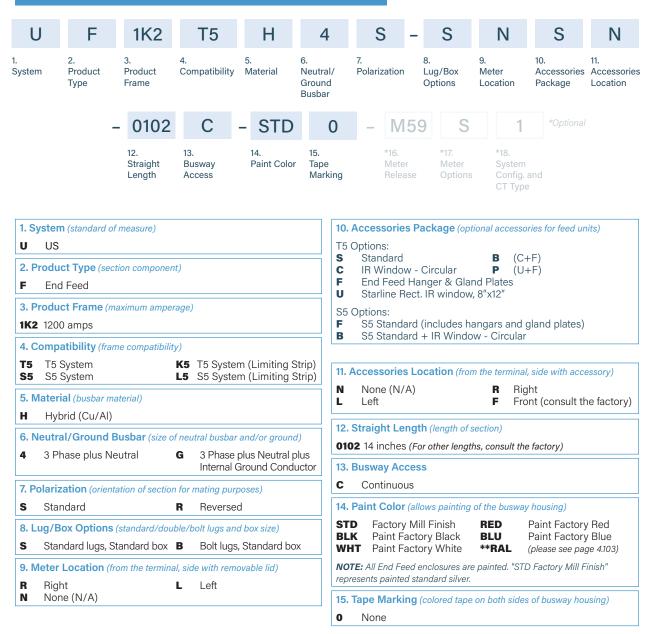
- Allows for safe IR scanning without powering down busway
- Complete system coverage with IR windows for plug-in units and end feeds
- End feed IR windows designed in 2 sizes for optimized viewing angles
- Cost effective design allows for quick end user ROI
- ETL Listed, CE Marked
- Lower TCO
- Enhanced safety
- Effective preventative maintenance

GENERAL SPECIFICATIONS	
Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Alu- minum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T5); IP54 (S5)
Max Operating Temperature	125°C
WINDOW DIMENSIONS	
End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 500A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17. M50 Options on page 4.102 End Feed Units: Product Numbers)

(Refer to option 10. Accessories Package on page 4.101 End Feed Units: Product Numbers)

END FEED UNITS: PRODUCT NUMBERS

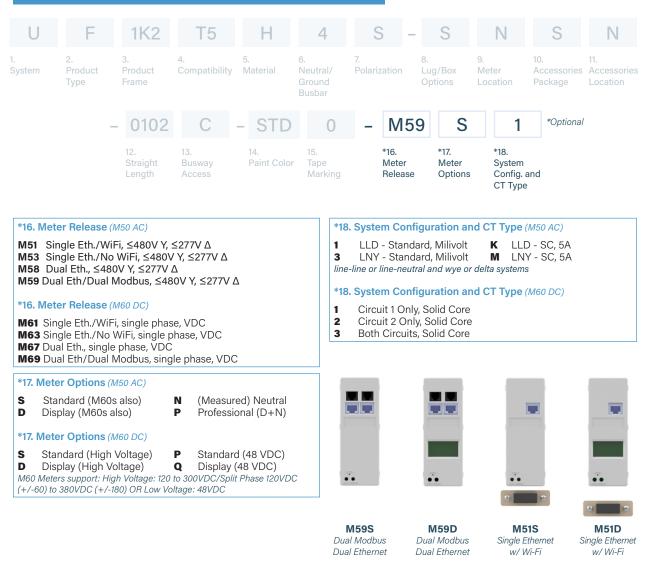


EXAMPLE

UF1K2T5H4R-SRLL-0102C-BLK0 = US System, End Feed, 1200 amps, T5 System, Hybrid, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Right Meter Location, Circular IR Window + Angled Meter Lid, Left Accessory Location, 1 foot 2 inch Straight Length, Painted Factory Black, No Tape Marking



END FEED METERING: PRODUCT NUMBERS



Note: Series - S end feeds not currently equipped with power monitoring. Consult factory for details.

EXAMPLE

UF1K2T5H4R-SRLL-0102C-BLK0-M59S1 = US System, End Feed, 1200 amps, T5 System, Hybrid, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Right Meter Location, Circular IR Window + Angled Meter Lid, Left Accessory Location, 1 foot 2 inch Straight Length, Painted Factory Black, No Tape Marking, M59 Meter, Standard Meter Options, LLD - Standard, 5 amp



T5 SERIES

RAL COLORS

1ST CHAR	ACTER
Р	Paint

2ND CHA	RACTER
0	100
1	101
2	102
3	103
4	200
5	201
Α	300
В	301
С	302
D	303
Е	400
F	401
G	500
н	501
J	502
К	600
L	601
М	602
Ν	603
Р	700
Q	701
R	702
S	703
т	704
U	800
V	801
W	802
х	900
Υ	901
Z	902

3RD CHARACTER						
0	0					
1	1					
2	2					
3	3					
4	4					
5	5					
6	6					
7	7					
8	8					
9	9					

4TH CHARACTER0

EXAMPLE:

P B 2 0 = Paint RAL 3012



ACCESSORIES: SUPPORT HARDWARE

THREADED ROD

For mounting to 1/2 - 13 UNC threaded rod (UBRHT5-1) or to 3/8 - 16 UNC (UBRHT5-2). Twist-in design. Can be inserted anywhere along the top fullaccess slot of busway. Maximum hanger support spacing is every 10 feet.

SEISMIC THREADED ROD

For mounting to 1/2 - 13 UNC threaded rod. Can be inserted anywhere along the top full-access slot of busway. Hangers are required every 10 feet maximum for seismic support.

STANDARD

For mounting to strut or other flat surfaces. Twist-in design allows inserting anywhere along the top fullaccess slot on the busway. Hanger support is required every 10 feet maximum.

STANDARD ONE-PIECE, SLOTTED

For mounting to 1/2 - 13 UNC threaded rod. Can be inserted anywhere along the top full-access slot of busway. Hangers are required every 10 feet maximum.

WALL MOUNT BRACKET

For mounting to walls, using standard hangers. Hanger support is required everything 3 meters maximum. *Note:* All S3 Systems must be mounted in the standard vertical orientation Part Number (250, 400, 600, & 800 amp systems only): UBRHT5-1 UBRHT5-2 Available in plain zinc or black (-BLK) Weight .3 lb

Part Number (250, 400 & 600 amp systems only): US: UBRHT5-3 Available in plain zinc or black (-BLK) Weight .3 lb

Part Number (250, 400, 600 & 800 amp systems only): UBHT5-1 Available in plain zinc or black (-BLK) Weight .2 lb

Part Number (Required for 1000 and 1200A, available for all T5 systems.) UBSHT5-4 Available in plain zinc or black (-BLK) Weight .09 kg



Part Number WMBT5-9





ACCESSORIES: SUPPORT HARDWARE

RAISED MOUNTING BRACKET

For mounting the busway horizontally (with access slot facing to the side) for under floor applications. Pedestal not included.

Note: Not available for S5 Systems

SIDE MOUNT BRACKETS

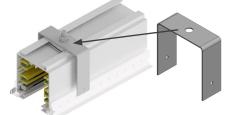
Mounted to vertical supports.

Note: Not available for S5 Systems

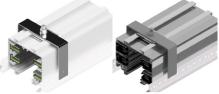
RECESSED SUSPENDED CEILINGS

For hanging busway into a recessed ceiling.

*Hanger bolt must be ordered separately



SRM250T5-1



SRM400T5-1



Part Number (250, 400, 600 & 800 amp systems only): URFBT5-2 Available in plain zinc or black (-BLK) Weight .2 lb

Part Number (250, 400, 600 & 800 amp systems only): UBSST5-1 Available in plain zinc or black (-BLK) Weight .2 lb

Part Numbers (for 250 and compact 400A systems): SRM250T5-1

(for 400 amp systems): SRM400T5-1

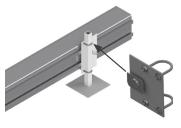
(for 600 amp systems): SRM600T5-1

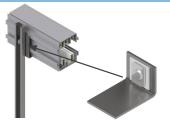
(for 800 amp systems): SRM800T5-1

(for 1000 amp systems): SRM1K0T5-1

(for 1200 amp systems): SRM1K2T5-1

Available in plain zinc or black (-BLK)









SRM1K0T5-1





ACCESSORIES: SUPPORT HARDWARE

PRODUCT DESCRIPTION

UNIVERSAL SERVER CABINET MOUNTING BRACKETS

The Universal Server Cabinet Mounting Brackets are designed with generous 3/8 inch wide through slots to mount directly onto virtually any server cabinet. Special versions for Legrand Nexpand cabinets are also available.

These accessories quickly and easily provide a flexible busway mounting solution on top of server cabinets, eliminating the need for threaded rod and strut support from the ceiling.

The brackets are adjustable in height, can be ordered in virtually any color, and can be positioned at any depth on the server cabinet. Moreover, they can accommodate up to 2 runs of 250 or 400 amp busway, and 1 run of 600, 800, 1000 or 1200 amp busway.

Hanger Bolt Included - UBHT5-1 (or MBHT5-1)



MATERIAL						
Galvanneal Steel						
HEIGHT						
17.68" Min 23.75" Max Maximum Spacing: Every 10' per run						
C: Color (1, 3, 4, 6, 7)						
1 Anodized Silver 6 Red 3 Black 7 Blue 4 White *consult factory for custom colors						
Universal Part Number U.S: UUSCMB-(X)-(D)-(C)						
Legrand Nexpand Part Number ULNCMB-(X)-45-(C)						
X = System (T5) D = Depth (30", 36", 42", 48" or custom length) C = Color (1, 3, 4, 6, 7)						
EXAMPLES						
<u>UUSCMB-T5-36-4</u> = System, Universal Server Cabinet Mounting Bracket, T5 System, 36 inch Depth, White						
<u>UUSCMB-T5-42-7</u> = US System, Universal Server Cabinet Mounting Bracket, T5 System, 42 inch Depth, Blue						



ACCESSORIES: CONNECTION HARDWARE

T5 & S5 JOINT KITS

SYSTEM AMPERAGE	NEUTRAL/GROUNDBAR OPTION	T5 SERIES CATALOG #	S5 SERIES CATALOG #
	3 Phase plus Neutral	SJK250T5-1	SJK250S5-1
250	3 Phase plus Neutral plus Internal Ground Conductor	SJK250T5G-1	SJK250S5G-1
250	3 Phase plus 200% Neutral	SJK250T5N-1	SJK250S5N-1
	3 Phase plus 200% Neutral plus Internal Ground Conductor	SJK250T5F-1	SJK250S5F-1
	3 Phase plus Neutral	SJK400S5-1	SJK400S5-1
400	3 Phase plus Neutral plus Internal Ground Conductor	SJK400S5G-1	SJK400S5G-1
400	3 Phase plus 200% Neutral	SJK400S5N-1	SJK400S5N-1
	3 Phase plus 200% Neutral plus Internal Ground Conductor	SJK400S5F-1	SJK400S5F-1
	3 Phase plus Neutral	CJK400T5-1	CJK400S5-1
0400	3 Phase plus Neutral plus Internal Ground Conductor	CJK400T5G-1	CJK400S5G-1
C400	3 Phase plus 200% Neutral	CJK400T5N-1	CJK400S5N-1
	3 Phase plus 200% Neutral plus Internal Ground Conductor	CJK400T5F-1	CJK400S5F-1
500	3 Phase plus Neutral	SJK500T5-2	SJK500S5-2
500	3 Phase plus Neutral plus Internal Ground Conductor	SJK500T5G-2	SJK500S5G-2
600	3 Phase plus Neutral	SJK600T5-2	SJK600S5-2
600	3 Phase plus Neutral plus Internal Ground Conductor	SJK600T5G-2	SJK600S5G-2
800	3 Phase plus Neutral	SJK800T5-2	SJK800S5-2
800	3 Phase plus Neutral plus Internal Ground Conductor	SJK800T5G-2	SJK800S5G-2
1000	3 Phase plus Neutral	SJK1K0T5-2	SJK1K0S5-2
1000	3 Phase plus Neutral plus Internal Ground Conductor	SJK1K0T5G-2	SJK1K0S5G-2
1200	3 Phase plus Neutral	SJK1K2T5-2	SJK1K2S5-2
1200	3 Phase plus Neutral plus Internal Ground Conductor	SJK1K2T5G-2	SJK1K2S5G-2



ACCESSORIES: CONNECTION HARDWARE

T5 JOINT KIT

For the connection of adjacent busway sections. One kit is required at each joint. Each kit is comprised of a housing coupler pair and bus connector set.

Bus Connector: copper blades secured to an insulating mounting plate. This makes the electrical connection between sections.

Housing Couplers: consists of two 12-screw couplers-one for the top and one for the bottom. These make the mechanical connection between busway sections.

*Installation tool is required (see below) **Available in all standard and RAL colors

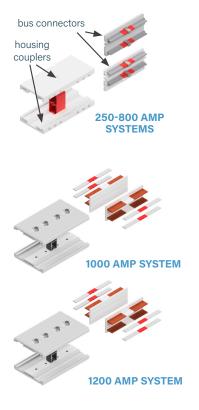
S5 JOINT KIT

Bus Connector: copper blades secured to an insulating mounting plate. This makes the electrical connection between sections.

Housing Couplers: consists of two 12-screw couplers-one for the top and one for the bottom. These make the mechanical connection between busway sections.

Joint Seal: Plastic sealing component installed between two housings at joint prior to bus connector and coupler installation

Joint Cover: Plastic sealing cover snapped over top of housing coupler after coupler installation.





Includes: Couple Covers, Top and Bottom Housing Couplers, Joint Seal and Bus Connectors

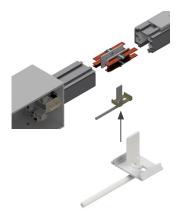


ACCESSORIES: CONNECTION HARDWARE

INSTALLATION TOOL

An installation tool is used to install the bus connector between two adjacent sections of busway. A joint kit, which is comprised of two housing couplers and a bus connector set, is required at every joint.

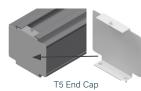
Busway sections are butted together and the top housing coupler is installed. The bus connector is inserted, centered and seated in the slot of the busway. The installation tool is inserted into the jointed intersection and rotated 90 degrees to form a secure electrical connection. The housing coupler is then positioned over the bottom joint and tightened. Part Number ST5IT No available colors Weight 3.1 lb



END CAP

For covering the end of T5 busway systems.

SYSTEM	DESCRIPTION	T5 SERIES CATALOG #	S5 SERIES CATALOG #
250	250 Amp End Cap	SEC250T5	SEC250S5
250	250 Amp End Cap, 200% N	SEC250T5-2N	SEC250S5-2N
C400	Compact 400 Amp End Cap	CEC400T5	CEC400S5
C400	Compact 400 Amp End Cap, 200% N	CEC400T5-2N	CEC400S5-2N
400	400 Amp End Cap	SEC400T5	SEC400S5
400	400 Amp End Cap, 200% N	SEC400T5-2N	SEC400S5-2N
500	500 Amp End Cap	SEC500T5	SEC500S5
600	600 Amp End Cap	SEC600T5	SEC600S5
800	800 Amp End Cap	SEC800T5	SEC800S5
1000	1000 Amp End Cap	SEC1K0T5	SEC1K0S5
1200	1200 Amp End Cap	SEC1K2T5	SEC1K2S5





S5 End Cap and Cover



ACCESSORIES: CONNECTION HARDWARE

CLOSURE STRIP

Snaps into bottom access slot of busway housing. The optional closure strip is normally shipped in 10 feet lenghts and can be field cut to fit exact desired length.

Closure Strip is offered in both non-conductive plastic material and aluminum.

Important note: Closure strip is optional for T5 systems, but is required for S5 systems in order to ensure the system meets IP54 ingress protection requirements. Closure strip must be ordered separately.

SYSTEM	AMPERAGE	PART NUMBER	MATERIAL TYPE	REQUIRED
T5	250-800A	SCST5-1	Plastic	Optional
T5	250-800A	SCST5-1-AL	Aluminum	Optional
T5	1000-1200	SCST5-2	Plastic	Optional
S5	250-800A	SCSS5-1-AL	Aluminum	Yes
S5	1000-1200	SCST5-2	Plastic	Yes



TAP-OFF SEAL ASSEMBLY

For use with Series-S Busway only. The seal assembly (2 pieces) wraps around the enclosure, protecting it and the busway from dust and liquid ingress.

Note: Tap-off Seal Assemblies are already included with each Series-S Plug-in unit, but may be ordered separately.

PLUG-IN (TAP-OFF) ENCLOSURE	SEAL ASSEMBLY CATALOG #
S1 Enclosure	S5TOU-SEAL-S1-STD
S2 Enclosure	S5TOU-SEAL-S2-STD
S3 Enclosure	S5TOU-SEAL-S3-STD





ADD-ON ACCESSORIES: DATA CHANNEL

DATA CHANNEL COVER

The Data Channel Cover is used to hold cables into position and hide them from view. It can also be used for a variety of busway identification applications, and it is available in many different colors.

The Data Channel Cover is available in lengths of 10 feet.

Please contact sales to order the quantity needed.

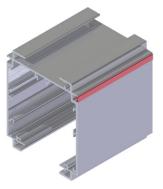
HINGED WIRE WAY

The Hinged Wire Way provides a seamless, integrated cable management solution that allows users to easily route cabling while leaving it easily accessible and identifiable.Discreet slots located every 6 inches provide built-in accessibility for cable drops.

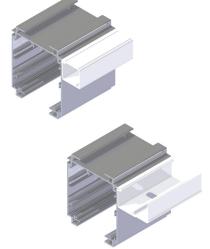
The Hinged Wire Way is available in lengths up to 10 feet.

Please contact sales to order the quantity and length needed.

Part Number UDCCT5-10-SIL (silver) UDCCT5-10-BLK (black) UDCCT5-10-GRN (green) UDCCT5-10-YEL (yellow) UDCCT5-10-W (white) UDCCT5-10-RED (red) UDCCT5-10-BLU (blue)



Part Number UHWWT5-10 Available in gray only





ADD-ON ACCESSORIES: DATA CHANNEL

DATA CABLE STRAP

The Data Cable Strap provides a seamless, integrated cable management solution that allows users to easily route cabling while leaving it easily accessible and identifiable. The 12 inch adjustable velcro strap can accommodate a wide variety and quantity of cables, and can be easily positioned along the busway to accommodate various cable management needs.

MULTI USE MOUNTING BRACKET

The Multi Use Mounting Bracket is an allpurpose bracket that easily attaches to any position on the busway. The bracket comes with 1/4 inch slotted holes throughout to allow for the attachment of a wide variety of accessories. Each bracket is capable of supporting a load of 25 pounds.

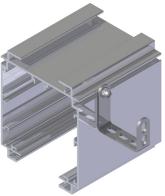
The Multi Use Mounting Bracket is commonly used for suspending compressed air lines, tap box cable management and suspending accessory lighting. Part Number SVCST5-12

Available in gray, with a black colored strap only



Available in plain zinc or black (-BLK)







SERVICES

Regular servicing of busway systems is crucial for ensuring that your system performs at its best. By conducting regular maintenance, you can identify and address any potential issues before they turn into expensive problems, thus saving you time and money in the long run. Regular servicing can help extend the lifespan of your busway system, ensuring that it meets safety standards and complies with regulations. Choose from various offerings and customize a service plan that works best for you.

WE ARE CURRENTLY OFFERING THE FOLLOWING SERVICES:

COMMISSIONING AND EQUIPMENT RENTALS

Designing a mission-critical facility involves a significant investment of time and money. Through comprehensive commissioning services, Starline can help guarantee your project delivers the outcomes you expect.

Whether you need rental equipment to test your busway system or certified technicians to perform the testing, Starline has you covered. Choose from our inventory of load bank tap-offs and associated gear, or work with a Starline Engineer to customize and perform a commissioning plan to fit your specific needs.

METER SERVICES

Starline's certified technicians make optimizing your meters' performance and functionality a breeze. Our comprehensive on-site meter programming service includes inspecting, programming, reporting, and optional retrofitting services for you existing systems.

STARTUP AND SYSTEM CERTIFICATION

At Starline, we are committed to ensuring the success of your project. Our team understands the risks associated with the energization of systems, which is why we've designed a rigorous certification process to inspect, test and report on your Starline Busway and Critical Power Monitor ("CPM") products. Our certification process proactively identifies and prevents any potential issues before they happen.

To ensure the long-term success of your project, it is crucial to have Starline-certified technicians inspect and validate the installation before full commissioning. Level 2 and 3 commissioning ensures the installation complies with safety requirements and meets factory standards for ongoing reliability.

- Double the length of the standard factory warranty
- Ensure all joint and feed connections are properly installed with continuity testing
- Ensure proper installation of all plug-in units
- Validate that system will perform to your specified requirements
- Full certification report delivered electronically at conclusion of service

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at <u>downloads.starlinepower.com/services</u>.



SERVICES

TURNKEY INSTALLATION SERVICES

Our trained and factory certified Busbar installers are looking forward to completing your next job. You can order your best-in-class power distribution system and leave the rest to us. Our technicians will complete your installation quickly and safely and will reduce your overall TCO by extending your product warranty.

PREVENTATIVE MAINTENANCE PLANS AND IR SCANNING

Although Starline busway is expertly designed to require less maintenance, NETA ATS and MTS guidelines recommend conducting annual inspections and health assessments on all critical equipment. Yearly preventative maintenance helps to ensure your system's long-term reliability and safety.

Starline's FLIR-certified technicians will create a custom preventative maintenance plan for your specific needs. Our certified technicians will work to:

- Identify thermal anomalies
- Extend equipment lifecycle
- Ensure optimal system performance
- Improve facility safety and operational sustainability

Upon completing your preventative maintenance plan, you may be eligible to extend your product warranty.

ON-SITE INSTALLATION SUPPORT

Starline's on-site installation service makes installing your busway as quick and easy as possible.

Our installation support starts with scheduling a preliminary trip to the installation site. During the initial visit, our certified technicians will train your installing contractor and develop a thorough installation and commissioning plan.

After completing the training, your installing contractor will have a direct line of communication with our installation experts. Our experts can help answer questions and provide hands-on guidance when needed.

Opting for Starline's installation support helps mitigate the installation risk and reduces the learning curve typically associated with new installations.

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at **downloads.starlinepower.com/services**.



SERVICES

ON-SITE PRODUCT TRAINING

At Starline, we offer comprehensive on-site product training services facilitated by our team of certified technicians. With their extensive expertise and commitment to upholding our high factory standards, you can confidently rely on them to ensure your and your systems' reliability and operational safety.

Our training programs equip your team with the knowledge and skills necessary to operate and maintain your systems effectively. Through hands-on demonstrations and interactive sessions, our certified technicians will guide your staff in understanding the intricate workings of the products and address any questions or concerns your team may have during the training process.

By choosing our on-site product training services, you are investing in your system's and operations' long-term success.

RECERTIFICATION AND EXTENDED WARRANTY PLANS

Starline's recertification and extended warranty options provide best-in-class coverage for all of your Starline products and systems. Our extended warranty plans safeguard your investment beyond the standard warranty timeframe, offering you peace-of-mind while our recertification programs help mitigate risk and downtime. Whether the busway has been installed for years or you are relocating to another building, Starline is here to help.

Choose from one of our flexible one to four-year plans or have your system recertified anytime. Contact your Starline rep for more information.

Contact your Starline Representative today to add services to your Track Busway order, or download the detailed Statement of Work documents at **downloads.starlinepower.com/services**.



T5 PLUG-IN UNITS

METER PLUG UNITS

Any T5 compatible Starline Plug-In Unit that contains only a meter.



METER BOX UNITS

Any lone box (without paddle head) that includes a meter.

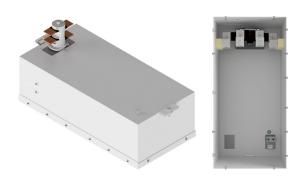


TERMINAL BLOCK UNITS

Any T5 compatible Starline Plug-In Unit that's fully rated to the listed electrical ratings that can accept incoming connections from the end user.

CIRCUIT BREAKER/FUSED DISCONNECT UNITS

Any T5 compatible Starline Plug-In Unit that contains a receptacle and/or drop cord along with circuit breaker(s) or fused disconnect.







SYSTEM & BUILD GUIDE

The below is a suggested list of questions to determine answers to in order to properly build or assemble both Track Busway systems and plugs.

WHEN BUILDING SYSTEMS

- 1. What is the amperage needed for the system? (200, 400, 500, 600, etc.)
- 2. Does the system need an internal ground?
- 3. Are there any limitations on the length of a run? (5ft max, 10ft max, 20ft max, etc.)

WHEN DETERMINING DESIRED PLUG CONFIGURATIONS

1. What type of system is this being used on? (T5)

2. Does the system have an internal ground? If so, does the plug need to be wired Isolated or Dedicated ground/earth?

- 3. What is the fault current needed for the breaker? (10Kaic, 22Kaic, etc.)
- 4. Does the plug need to have drop cords or receptacles?
- 5. What is the device configuration of the connector bodies or receptacles?
- 6. What is your desired circuit breaker configuration? (phase, amperage, poles?)
- 7. Do you require metering?
- 8. How many outlets are needed?
- 9. What is the trip curve needed?
- 10. What is the voltage required?

METER PLUGS: PRODUCT NUMBERS

	U	Μ	T5	С	52	S	- C	065
	1. System	2. Product Type	3. Compatib	4. ility Ground	5. I Box	6. Orientatior		rent nsformer
		I	Vleter	9. Meter Options		STD 11. Paint Color	*Option	al
. System (standard of J US 2. Product Type (sect M Meter Plug 3. Compatibility (fram	ion compone					1	I I Ige) I	 N (Measured) Neutral P Professional (D+N) P Standard (48 VDC) Q Display (48 VDC)
 T5 System T5 System (Rota Ground (ground typ Case (Housing) Box (what size enclose) 01, 02, 99 (refer to an 28 boxes are cur 	e installed) Ground sure) enclosure) Z5 K5 +		ng Strip)	(+/-60) to 380 V *10. Meter Co 1 LL power 3 LN power 4 LL power 6 LN power 7 LL power 9 LN power	DC (+/-180) C nfiguration r, Delta Solic r, Wye Solid r, Delta Solic	<i>DR Low Vc</i> (<i>M50 AC</i>) I Core, m Core, 5, Core, 5, Core, m	to 300 VDC/Split Phase 120 VDC oltage: 48 VDC NV CT V CT A-secondary CT A-secondary CT V CT
 6. Orientation (what c S Standard 7. Current Transform 065 65 amps 250 250 amps 300 800 amps 		R Reve	imps		M LN powe *10. Meter Co 1 Circuit 1 2 Circuit 2	r, Wye Split	Core, 5A (<i>M60 DC</i>) Core Core	A-secondary CT -secondary CT
1K2 1200 amps **M60 (DC) meters are or 8. Meter Release (MS M51 Single Eth./WiF M53 Single Eth./No N M58 Dual Eth./A0 N 8. Meter Release (MC M61 Single Eth./WiF M63 Single Eth./No N M67 Dual Eth., single	50 AC) i, ≤480V Y, WiFi, ≤480V V Y, ≤277V Modbus, ≤4 50 DC) i, single pha WiFi, single	vith 800 amp c ≤277V Δ / Y, ≤277V Δ Δ 80V Y, ≤277 ase, VDC phase, VDC	vurrent transdu	icers	BLK Paint F	r Factory Silve Factory Black Factory Whit	C BL	D Paint Factory Red U Paint Factory Blue RAL (please see page 4.103)

EXAMPLE

<u>UMT5C52S-065-M59S1-STD</u> = US System, Meter Plug, T5 System, Case Ground, 52 Box, Standard Orientation, 65 Current Rating, M59 Meter, Standard Meter Options, LL Power, Delta Solid Core, mV CT, Painted Factory Silver

METER BOXES: PRODUCT NUMBERS

			_		_					
	U	В	NA	A (C 5	2	S	-	065	
	1. System	2. Product Type	3. Compatil	4. pility Grour	5. nd Box		6. Orientatior	1	7. Current Transform	er
		-	M59	S	1	-	STD	*Opi	tional	
			8. Meter Release	9. Meter Options	*10. Meter Configurati	F	1. Paint Color			
1. System (standard of	f measure)				9. Meter	Optio	ons (M50 AC))		
U US						ndard				Measured) Neutral rofessional (D+N)
2. Product Type (sec	tion compone	nt)				olay	<i></i>		F F	Tolessional (D+N)
B Meter Box							ons (M60 DC) (High Volta		P S	tandard (48 VDC)
3. Compatibility (fran	ne compatibili	ity)			D Dis	blay (F	High Voltag	e)	Q D	isplay (48 VDC)
NA Not Applicable							DC (+/-180) C			VDC/Split Phase 120 VDC 48 VDC
 Ground (ground typ) C Case (Housing) 					*10. Mete	r Cor	nfiguration	(M50	AC)	
 5. Box (what size enclosure) 01, 02, 99 (refer to enclosure reference page 4.124) *12 and 28 boxes are currently not available 6. Orientation (what direction the paddle faces) S Standard 					 LL power, Delta Solid Core, mV CT LN power, Wye Solid Core, mV CT LL power, Delta Solid Core, 5A-secondary CT LN power, Wye Solid Core, 5A-secondary CT LN power, Delta Split Core, mV CT LN power, Delta Split Core, 5A-secondary CT K LL power, Delta Split Core, 5A-secondary CT M power, Wye Split Core, 5A-secondary CT 					
7. Current Transform	ner (current ra	nting)			*10. Mete	r Cor	nfiguration	(M60	DC)	
065 65 amps 250 250 amps 800 800 amps 1K2 1200 amps		225 225 a 400 400 a 1K0 1000	amps amps	,	1 Circ 2 Circ	uit 1 C uit 2 (Only, Solid C Only, Solid C uits, Solid C	Core Core		
**M60 (DC) meters are of	,	ith 800 amp (current transc	lucers	11. Paint					
8. Meter Release (M8 M51 Single Eth./WiF M53 Single Eth./No \ M58 Dual Eth., ≤480 M59 Dual Eth/Dual I	;i, ≤480V Y, ± WiFi, ≤480V V Y, ≤277V /	′Y, ≤277V <i>L</i> ∆			BLK P	aint Fa	actory Silve actory Black actory Whit	<	BLU Pa	aint Factory Red aint Factory Blue Jease see page 4.103)
8. Meter Release (Me	60 DC)									
M61 Single Eth./WiF M63 Single Eth./No M67 Dual Eth., single M69 Dual Eth/Dual I	WiFi, single e phase, VD0	phase, VD0 C								

EXAMPLE

UBNAC52S-065-M59S1-STD = US System, Meter Box, Not Applicable, Case Ground, 52 Box, Standard Orientation, 65 Current Rating, M59 Meter, Standard, LL Power, Delta Solid Core, mV CT, Painted Factory Silver

TERMINAL BLOCK UNITS: PRODUCT NUMBERS

	_	_	_							
	U	Т	T5	С	52	S -	- 030 -	4		
	1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Amperage	8. Poles		
		- S	Ν	Ν	- M5	9 S	- STD	STD	*Optional	
		9. Lug Options	10. Meter Location	11. Accessories	*12. Meter Release	*13. Meter Options	14. Meter Configuratio	15. Paint Color n		
l . System (s U US	standard of meas	sure)				er Release (N gle Eth./WiFi	150 AC) , ≤480V Y, ≤277	VΔ		
	Type (section contained by the section of the sec	omponent)			M53 Sin M58 Du	gle Eth./No V al Eth., ≤480\	ViFi, ≤480V Y, ≤	277V 🛆		
T5 T5 Sys	B. Compatibility (frame compatibility) *12. Meter Release (M60 DC) IT5 T5 System K5 T5 System (Limiting Strip)									
C Case (ground type inst Housing) Grou d (Separate) G	und D	Dedicated Gr	round	M67 Dual Eth., single phase, VDC M69 Dual Eth/Dual Modbus, single phase, VDC *13. Meter Options (<i>M50 AC</i>)					
	size enclosure) 9 (refer to enc		nce page 4.12	4)	S Standard N (Measured) Neutral D Display P Professional (D+N)					
6. Orientati S Standa	on (what direct	ion the paddle R	<i>faces)</i> Reversed		*13. Meter Options (M60 DC) S Standard (High Voltage) P Standard (48 VDC) D Display (High Voltage) Q Display (48 VDC)					
030 30 amp 100 100 am	ips	060 225	60 amps 225 amps		M60 Mete (+/-60) to	ers support: Hig	h Voltage: 120 to 3 80) OR Low Voltag	800 VDC/Split		
600 600 am	50 250 amps 400 400 amps 00 600 amps . . Poles (number of poles in a circuit) .				 LL power, Delta Solid Core, mV CT LN power, Wye Solid Core, mV CT LL power, Delta Solid Core, 5A-secondary CT LN power, Wye Solid Core, 5A-secondary CT 					
9. Lug Optio S Standa N Double	ons (number of	D 2	<i>uit)</i> Double Lug 2 Bolt Lug		 7 LL power, Delta Split Core, mV CT 9 LN power, Wye Split Core, mV CT K LL power, Delta Split Core, 5A-secondary CT M LN power, Wye Split Core, 5A-secondary CT *14. Meter Configuration (M60 DC) 					
10. Meter Lo N N/A R Right	ocation (locatio	on of optional I L B	<i>meter)</i> Left Bottom (lid)			cuit 1 Only, Sol cuit 2 Only, Sol Color		Both Circui	ts, Solid Core	
N N/A	ries (optional a	ccessories for R B	plugs) IR Window IR Window & F	Finger Shroud	STD F BLK F	Paint Factory S Paint Factory B Paint Factory N	Black BLU	Paint Facto Paint Facto _ (<i>please see p</i>	y Blue	

EXAMPLE

UTT5C27S-225-4-SBN-M59S3-BLK = US System, Terminal Block, T5 System, Case (Housing) Ground , 27 Box, Standard Orientation, 225 amps, 4 Pole - Standard Lugs, Bottom Located Meter, No Accessories, M59 Meter, Audible Alarm, Painted Factory Black

CIRCUIT BREAKER/FUSED DISCONNECT: PRODUCT NUMBERS

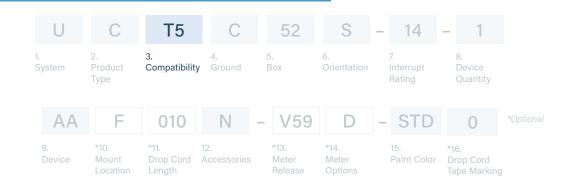
	U	С	T5	С	52	S	- 14	- 1				
	1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Device Quantity				
	AA	F	010	Ν	- V59	D	- STD	0	*Optional			
	9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options	15. Paint Color	*16. Drop Cord Tape Markir	ıg			
I. System (s	tandard of meas	sure)			12. Acc	essories (op	tional accessorie	es for plugs)				
U US						/A rcuit Breaker		F Finger S P Padlock	Shroud Adapter for Ci			
2. Product	Type (section c	omponent)						Breaker				
C Circuit	Breaker Unit	F	Fused Disco	nnect Unit	S Se	eismic Hange	r	R IR Wind	OW			
3. Compatil	oility (frame co	mpatibility)			*13. Me	ter Release	(M50 AC)					
T5 T5 Sys R5 T5 Sys	tem tem (Rotating I		T5 System (L	imiting Strip	V31 31		Fi, ≤480V Y, ≤					
,	. 0	,					WiFi, ≤480V Y)V Y, ≤277V Δ	∕, ≤277V Δ				
	<i>ground type inst</i> Housing) Grou	· · · ·	Dedicated G	round	V59 Du	V59 Dual Eth/Dual Modbus, ≤480V Y, ≤277V ∆						
	d (Separate) G		Deulcaleu C	irouriu		V56 Dual Eth/Dual Modbus, \leq 480V Y, \leq 277V Δ , Breaker Monitoring V57 Dual Eth, Breaker Monitoring \leq 480V Y, \leq 277V Δ						
5. Box (what	size enclosure)					ter Release	(M60 DC)					
01, 02, 9	9 (refer to enc	losure refere	nce page 4.1	24)	M61 Si	ngle Eth./Wi	Fi, single phas					
6. Orientati	on (what directi	on the paddle	faces)		M63 Single Eth./No WiFi, single phase, VDC M67 Dual Eth., single phase, VDC							
S Standa	ard	R	Reversed				Modbus, sing	le phase, VD	C			
7. Interrupt	Rating (interru	ot rating of the	e breakers in K)		*14. Me	ter Options	(M50 AC)					
10, 14, 22, 2	25, 30, 35, 50	, 65, CC (C	C = 200,000) (for U.S.)		andard			red) Neutral			
8. Device Q	uantity (quanti	ity of device 1)			D Di	splay		P Proiessi	onal (D+N)			
1, 2, 3, 4, 5,	6, 7, 8, 9					ter Options	· · · · ·					
9. Device (q	uantity of device	e 1)			S Standard (High Voltage) P Standard (48 VDC) D Display (High Voltage) Q Display (48 VDC)							
AA, AB,2	ZZ (refer to dev	vice codes pa	ige 4.139)		M60 Me	M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC						
*10. Mount	Location (with	respect to bu	sway polarizin <u>g</u>	stripe)			/-180) OR Low Ve	oltage: 48 VDC				
F Front		Α	Back			nt Color	0.1					
T Top L Left		B	Bottom Right			Paint Factor Paint Factor		D Paint Fac D Paint Fac				
	unt location will l		0			Paint Factor		RAL (please se				
*11 Drop C	ord Length (lo	action of anti-	nal motor)		16. Dro	p Cord Tape	Marking					
XXY: XX=fe		cation of optic	nai meter)			e Factory Bla		Tape Factor				
	chosen in 6" incr	ements) For a	ny device confi	guration		e Factory Wl e Factory Re		Tape Factor Tape Factor				
chosen over 7	0 amps, the ma	x. drop cord le	ngth is 10 feet (100)				1				

EXAMPLE

<u>UCT5D57S-25-2CDB0100N-V59D-STD</u> = US System, Circuit Breaker Unit, T5 System, Dedicated Ground, 57 Box, Standard Orientation, 25 Interrupt Rating, 2 Devices, L16-30C, Bottom Located, 1 foot Drop Cord, No Accessories, V59 Meter, with Display, Painted Factory Silver



CIRCUIT BREAKER/FUSED DISCONNECT: COMPATIBILITY



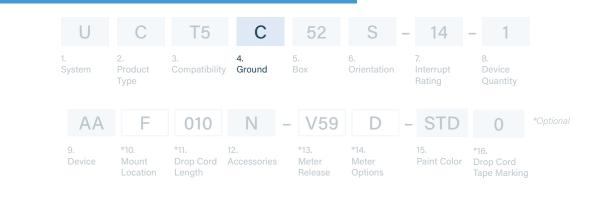
3. Co	3. Compatibility (frame compatibility)						
	T5 System	K5	T5 System (Limiting Strip)				
	T5 System (Rotating Paddle)	Z5	K5 + R5				

IN OPTION 3. you are asked to specify what type of compatibility (paddle type) you would like to work with your busway system. There are three different types: the traditional T5 system, the K5 that works with systems with a limiting strip, and the R5 that is a rotating design capable of being operated from the floor.





CIRCUIT BREAKER/FUSED DISCONNECT: GROUND



ISOLATED GROUND/EARTH

Case ground isolated from copper

Orange receptacles in plugs.

ground bar. Isolated ground

4. G	round (ground type installed)		
C G	Case (Housing) Ground Isolated (Separate) Ground	D	Dedicated Ground

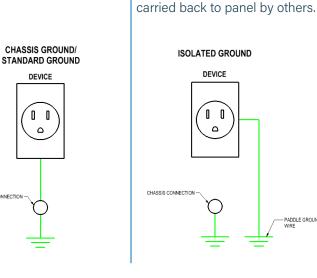
IN OPTION 4. you are asked to specify what type of ground you would like: case, dedicated or isolated.

Parts affected by grounding are the plug paddle (ground paddles have a fifth stab).

CASE GROUND/CHASSIS EARTH

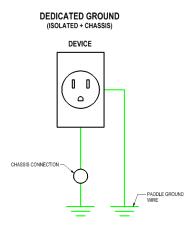
Uses aluminum housing and no extra copper bar.

CHASSIS CONNECTION



DEDICATED GROUND/EARTH

Extra bar in busway for ground. Everything tied together inside plugs. Bar and housing at same potential.



*For further details about Dedicated Ground vs. Isolated Ground, please reference our "Isolated Ground vs. Dedicated Ground" tech brief on downloads.starlinepower.com/starline/busway

PADDLE GROUND



CIRCUIT BREAKER/FUSED DISCONNECT: BOX



5. Box (what size enclosure)
01, 02, ... 99 (refer to enclosure reference page 4.134)

50 SERIES

IN OPTION 5. you are asked to specify what style enclosure you would like. Size is typically a result of the options and features that you choose. A few common enclosure sizes for T5 busway systems are shown below:

A.55" ← Length varies ►

90 SERIES



BOX LENGTHS	BOX LENGTHS
51: 6.00" 52: 8.00" 53: 10.00" 54: 12.00" 55: 13.00" 56: 15.00" 57: 18.00"	 91: 6.00" 92: 8.00" 93: 10.00" 94: 12.00" 95: 13.00" 96: 15.00" 97: 18.00"

*For all box sizes and styles, please refer to page 4.134



CIRCUIT BREAKER/FUSED DISCONNECT: INTERRUPT RATING



7. Interrupt Rating (interrupt rating of the breakers in K)
10, 14, 22, 25, 30, 35, 50, 65, CC (CC = 200,000)

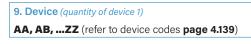
IN OPTION 7. you are asked to specify what the interrupt rating of your protection will be. Starline standardizes on Schneider Electric (Square D) and ABB for breakers, and the breaker used is dependent on voltage, amperage and short-circuit ratings. Different or particular brands may be available upon request. Images of example breakers can be found below. Injection (NETA) testing may also be available upon request.





CIRCUIT BREAKER/FUSED DISCONNECT: DEVICE







UCT5C53S-22-3AIFN-STD

IN OPTION 9. you are asked to specify what device(s) you would like in your plug. All devices will need to be coded. The catalog number can accommodate up to 3 different types of devices- anything more than that will be handled in the G0 code. If you require more than one type of device, see the example catalog number below:

UCT5C57S-22-2AD-3AB-1ACFN-V59D-G001

If you require a drop cord(s), only one device type can be accommodated in the main catalog number. In addition, drop cord length is only specified if it's the same for all devices. Any additional device types or varying lengths will be handled in the G0 code.



MCT5C53S-14-1FOFN-M59S-STD

*For the full list of all device codes, please refer to **page 4.139**



UCT5D92S-22-2BGB(XXX)N-STD



UFT5C93R-CC-1EYB(XXX)N-V59S-STD



CIRCUIT BREAKER/FUSED DISCONNECT: MOUNT LOCATION



*10.	*10. Mount Location (with respect to busway polarizing stripe)							
F T	Front	Α	Back					
Т	Тор	В	Bottom					
L	Left	R	Right					

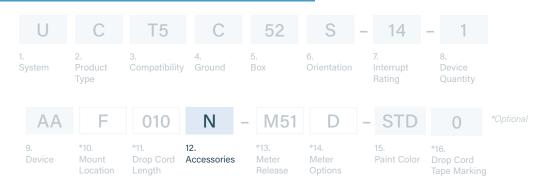
IN OPTION 10. you are required to specify the devices desired location on the plug. Please see the image below to guide you in selecting your specified mounting location.

*Mount location is 'situational' because it is only specified if it's the same for all chosen devices. If it is not the same, then it is omitted from the catalog number and moved to the configuration code.



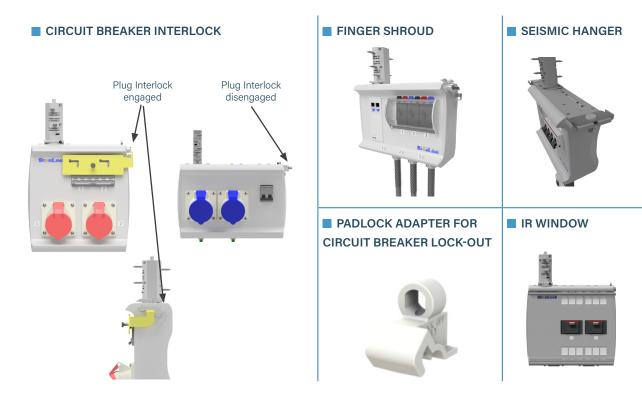


CIRCUIT BREAKER/FUSED DISCONNECT: ACCESSORIES

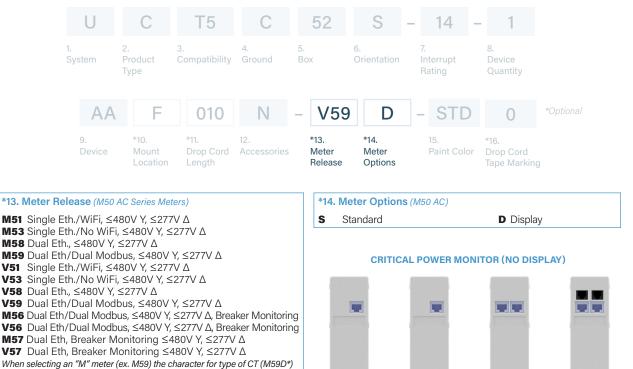


12.	Accessories (optional accessories for plugs)	
Ν	N/A	B
C S	Circuit Breaker Interlock Seismic Hanger	b
L T	Pilot Light NETA Injection Tested Breakers	0
F	Finger Shroud Padlock Adapter for Circuit Breaker	0
R	IR Window	С
		L

IN OPTION 12. you have the option to choose an accessory: The Circuit Breaker prevents disengaging the plug from the busway while the breaker is in the "on" position. The Finger Shroud prevents accidentail on or off contact with the breaker toggle. The Padlock Adapter provides optional protection for locking out breakers. NETA injection testing certifies the breakers will operate as specified in their trip logic. Pilot Light: When breaker is on, pilot light will be illuminated green. When the breaker off or tripped, the pilot light is off.



CIRCUIT BREAKER/FUSED DISCONNECT: (AC ONLY) METER RELEASE



configuration is required in the catalog number.

IN OPTION 13. you are able to select metering for your plug-in unit. M50 and V50 series meters are the best options for plug-in units.

The communication options include:

- Single Ethernet + WiFi
- Single Ethernet
- Dual Ethernet
- Dual Modbus + Dual Ethernet

The difference between 'M' and 'V' is that M50 series meters are capable of monitoring the current of the entire unit, and V50 series meters are capable of monitoring up to 6 individual devices limited to 6 solid core Current Transformers (CTs).

Each unit is calibrated for accuracy and is within 0.5% to meet ANSI Revenue Grade Standards.

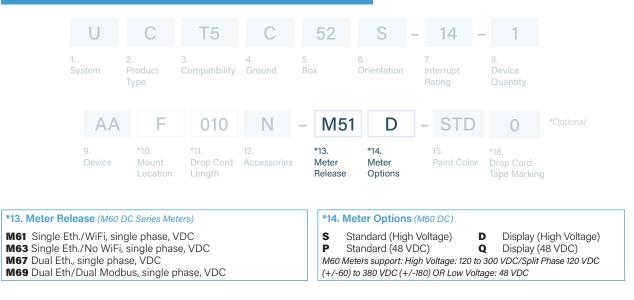
M/V56 and M/V57 meters also have the capability to sense circuit breaker position (on/off) for up to two outlets.



CRITICAL POWER MONITOR WITH OPTIONAL DISPLAY



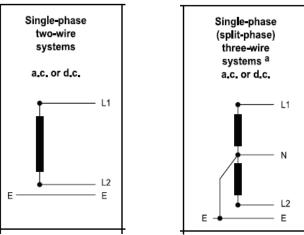
CIRCUIT BREAKER/FUSED DISCONNECT: (DC ONLY) METER RELEASE



If you've chosen to use direct current (DC) for your Track Busway system, then the DC M60 series meters are a perfect fit. For M60 meters there is a special addition to the catalog number (reference 15. System Configuration). It is important to select your circuit(s) when ordering.

The M60 device utilizes the M50 bezel (shown on previous page) and is capable of measuring up to 4 outlets (circuit 1 or circuit 2). The difference between 'M' and 'V' is that M60 series meters are capable of monitoring the current of the entire unit, and V60 series meters are capable of monitoring up to 4 individual devices.

Each unit is calibrated for accuracy within 1% of energy.



M60 meters are capable of supporting single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380VDC(+/-190VDC).

*12VDC & 24VDC applications are not supported at this time.

**Meter is capable of reporting A to B voltages (as shown above). A to N + B to N voltages will not be reported.

CIRCUIT BREAKER UNITS, NO DEVICES: PRODUCT NUMBERS

		ι	J (C	T5	С	5	2	S -	- 14	-		
		1. Syster	2. n Produ Type	3. Ict Com	4 Ipatibility C	Ground	5. Box	6. Oi	rientation	7. Interrupt Rating			
2	030	3	480	050	5	Ν	-	M59	D	3	- STD	0	*Optional
8. Circuit Protection Quantity	9. Amperage	10. Poles	11. Voltage	*12. Drop Cord Length	*13. Number of Wires	14. Accessorie		15. Meter	16. Meter Options	17. Meter Configuratio	18. Paint Color on	19. Drop Cord Tape Markin	ng

1. System (standard of measure)	14. Accessories (optional accessories for plugs)					
U US	N N/A F Finger Shroud					
2. Product Type (section component)	C Circuit Breaker Interlock P Padlock Adapter for Circuit Breaker					
C Circuit Breaker Unit F Fused Disconnect Unit	S Seismic Hanger R IR Window					
3. Compatibility (frame compatibility)	15. Meter					
T5T5 SystemK5T5 System (Limiting Strip)R5T5 System (Rotating Paddle)Z5K5 + R5	M51 Single Eth./WiFi, ≤480V Y, ≤277V Δ M53 Single Eth./No WiFi, ≤480V Y, ≤277V Δ M58 Dual Eth, ≤480V Y, ≤277V Δ					
4. Ground (ground type installed)	M59 Dual Eth/Dual Modbus, \leq 480V Y, \leq 277V Δ					
C Case (Housing) Ground D Dedicated Ground G Isolated (Separate) Ground	M56 Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ, Breaker Monitoring					
	16. Meter Options (M50 AC)					
5. Box (what size enclosure)	S Standard N (Measured) Neutral D Display P Professional (D+N)					
01, 02, 99 (refer to enclosure reference page 4.124)	*16. Meter Options (<i>M60 DC</i>)					
6. Orientation (what direction the paddle faces)	S Standard (High Voltage) P Standard (48 VDC)					
S Standard R Reversed	D Display (High Voltage) Q Display (48 VDC)					
7. Interrupt Rating (interrupt rating of the breakers in K)	M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/-60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC					
10, 14, 22, 25, 30, 35, 50, 65, CC (CC = 200,000) (for US)	*17. Meter Configuration					
8. Circuit Protection Quantity	1 LL power, Delta Solid Core, mV CT					
1, 2, 3, 4, 5, 6	 3 LN power, Wye Solid Core, mV CT 4 LL power, Delta Solid Core, 5A-secondary CT 					
9. Amperage	6 LN power, Wye Solid Core, 5A-secondary CT					
015, 020, 030, 600	 7 LL power, Delta Split Core, mV CT 9 LN power, Wye Split Core, mV CT 					
10. Poles (number of poles in a circuit)	K LL power, Delta Split Core, 5A-secondary CT					
1, 2, 3, 4, 5	M LN power, Wye Split Core, 5A-secondary CT					
11. Voltage	*14. Meter Configuration (M60 DC)					
120, 240, 277, 300, 415, 480, 600	1 Circuit 1 Only, Solid Core 3 Both Circuits, Solid Core 2 Circuit 2 Only, Solid Core					
*12. Drop Cord Length (length of drop cord)	18. Paint Color					
010 1 foot XXX =feet, Y=inches (only can be chosen in 6" increments) For any device configuration chosen over 70 amps, the max. drop cord length is 10 feet (100)	STD Paint Factory Silver BLK Paint Factory Black WHT Paint Factory White RED Paint Factory Red BLU Paint Factory Blue **RAL (please see page 4.103)					
*13. Number of Wires (M50 AC)	, , , , , , , , , , , , , , , , , , ,					
2, 3, 4, 5	19. Drop Cord Tape Marking					
EXAMPLE	3 Black 6 Red 8 Green 4 White 7 Blue					

UCT5D57S-25-203034800505N-M59D3-*STD0 = US System, Circuit Breaker Only Unit, T5 system, Dedicated Ground, 57 box, Standard orientation, 25kA interrupt rating, 2 circuits, 30 amps, 3 poles, 480v, 5 ft drop cord, 5 wires, no accessories, M59 meter, painted factory silver, no drop cord tape marking

С	ORDE	D ME	TERS							
		U	ССРМ	М	51	S	1	- L515	С	
		1. System	2. Product Type	3. Monitoring Capabilities	4. Meter Features	5. Meter Variations	6. System Voltage	7. Wiring Device or Cord Set	8. Device Style	
				- XXX	<x td="" –<=""><td>C -</td><td>BLK</td><td></td><td></td></x>	C -	BLK			
				9. Length (to end)	L). leter ocation on le Cord	11. Paint Color			
1. Sy	ystem (star	ndard of mea	sure)			7. Wiring Device or Cord Set				
U	US					Options listed on page 4.133				
2. P	roduct Ty	pe (section c	component)			8. Device Style				
CCI	PM Corde	d CPM					nector Body	R	Receptacle Quad Receptacle	
3. N	Ionitoring	Compatibi	lities							
М	Paddle/F	eed Monito	oring			9. Length (end to end)				
4. №	leter Feat	ures				XXXX Length will be selected when ordering. There will always be four X's for these characters. (lengths range from 4 to 25 feet in				
51 58	Single Et Dual Ethe	hernet WiFi		ngle Ethernet		incremen	s of 1 foot)			
	58 Dual Ethernet 59 Dual Ethernet, Modbus 5. Meter Variations					10. Meter	Location o	n the Cord		
5. IV	Standard		D	isplay		C Cen B Bott		т	Тор	
-	ystem Vol			ispidy		11. Paint				
0. 5	Line-Line	•	3 Li	ne-Neutral			aint Factory S	Silver BED	Paint Factory Red	
•		,	J LI	ne neutral		BLK Pa	aint Factory I aint Factory I	Black BLU	3	

Monitoring: The Corded CPM has a plug on one end and a connector body or receptacle on the other end; making it ideal for field power monitoring onthe-fly. It is capable of monitoring the energy of any device. The Corded CPM is also available without connectors. All M50 meter features, communication options and accessories are available except for measured neutral.

Box Size: There are two different Corded CPM box sizes. The smaller is designed for single phase (2 pole/3 wire, 1 pole+N/3W) wiring devices rated from 0-32A & 0-480V. The color is black unless specified. The larger enclosure is designed for all other configurations. These include single phase (2 pole/3 wire) rated at 32A-63A & 0-480V, three phase delta (3 pole/4 wire) rated at 0-63A & 0-480V and three phase wye (4 pole/5 wire) rated at 0-63A & 0-480V.

Meter Location: The meter can be placed in the center or offset from the top or bottom of the cord. Top or Bottom meters will always be 1'8" from the end of the connector.



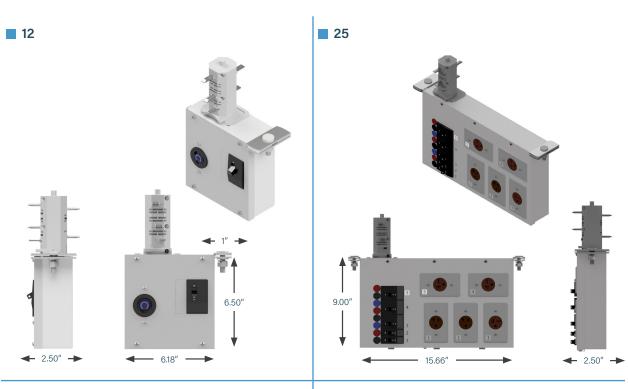


WIRING DEVICE/CORD SET OPTIONS

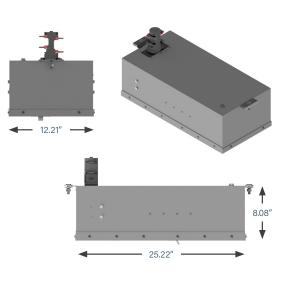
AC NEMA/IEC NAME	VOLTAGE	CURRENT	AC NEMA/IEC NAME	VOLTAGE	CURRENT
CS6360C	125V	50	420C12W	125/250V	20
CS6364C	125/250V	50	430C12W	125/250V	30
CS8264C	250V	50	460C12W	125/250V	60
CS8364C	250V	50	320C6W	250V	20
CS8164C	480V	50	330C6W	250V	30
CS8464C	480V	50	360C6W	250V	60
515D	125V	15	320C5W	277V	20
515	125V	15	330C5W	277V	30
520D	125V	20	360C5W	277V	60
520	125V	20	416C4S	110V	16
530	125V	30	432C4S	110V	32
615D	250V	15	463C4S	110V	63
615	250V	15	416C9S	230V	16
620D	250V	20	432C9S	230V	32
620	250V	20	463C9S	230V	63
630	250V	30	420C9S	250V	20
L1420	125/250V	20	430C9S	250V	30
L1420	125/250V				60
		30	460C9S	250V	
L1520	250V	20	416C6S	415V	16
L1530	250V	30	432C6S	415V	32
L1620	480V	20	463C6S	415V	63
L1630	480V	30	420C7S	480V	20
L2120	120/208V	20	430C7S	480V	30
L2130	120/208V	30	460C7S	480V	60
L2220	277/480V	20	516C6S	230/400V	16
L2230	277/480V	30	532C6S	230/400V	32
L2320	347/600V	20	563C6S	230/400V	63
L2330	347/600V	30	316C9S	415V	16
L515	125V	15	332C9S	415V	32
L520	125V	20	363C9S	415V	63
L530	125V	30	520C7S	277/480V	20
L615	250V	15	530C7S	277/480V	30
L620	250V	20	560C7S	277/480V	60
L630	250V	30	320C7W	480V	20
L715	277V	15	330C7W	480V	30
L720	277V	20	360C7W	480V	60
L730	277V	30	15A-300V	300V	15
L820	480V	20	16A-300V	300V	16
L830	480V	30	20A-300V	300V	20
316C4S	110V	16	30A-300V	300V	30
332C4S	110V	32	32A-300V	300V	32
363C4S	110V	63	50A-300V	300V	50
320C4S	125V	20	60A-300V	300V	60
330C4S	125V	30	63A-300V	300V	63
360C4S	125V	60	15A-480V	480V	15
520C9W	120/208V	20	16A-480V	480V	16
530C9W	120/208V	30	20A-480V	480V	20
560C9W	120/208V	60	30A-480V	480V	30
316C6S	230V	16	32A-480V	480V	32
	230V 230V	32	50A-480V		50
332C6S				480V	
363C6S	230V	63	60A-480V 63A-480V	480V 480V	60



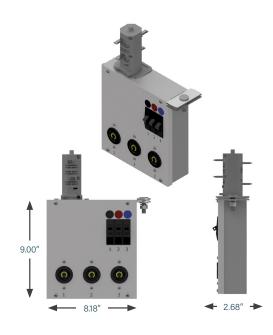
BOX SIZES & STYLES





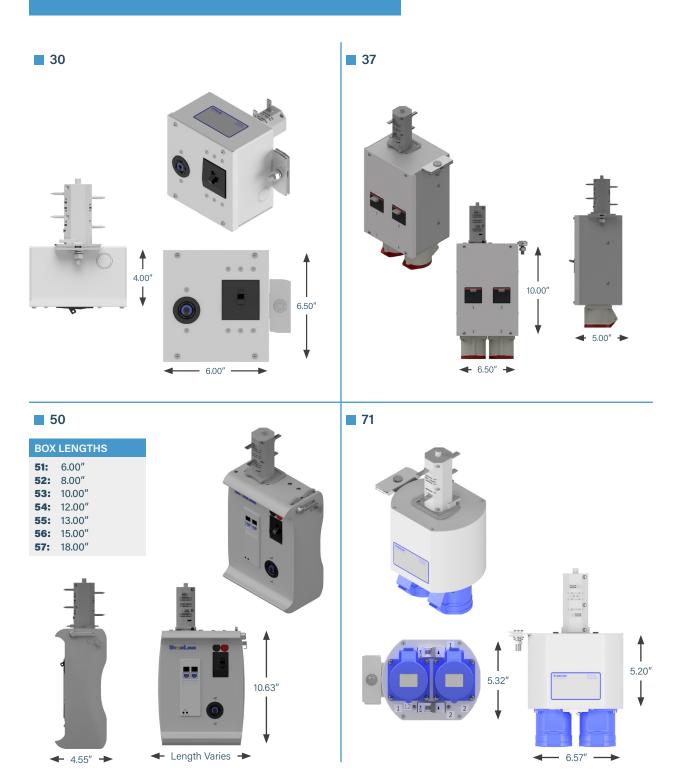


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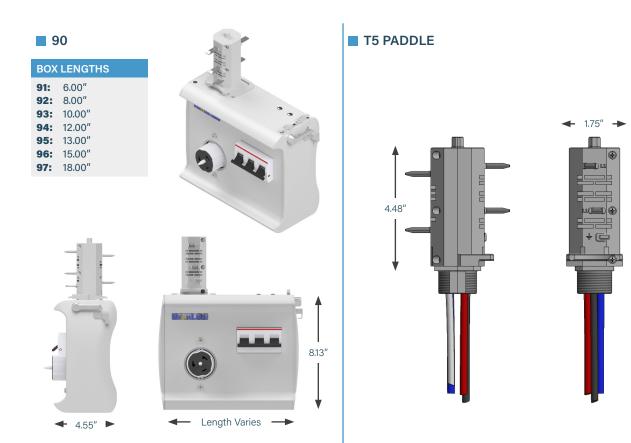


BOX SIZES & STYLES





BOX SIZES & STYLES



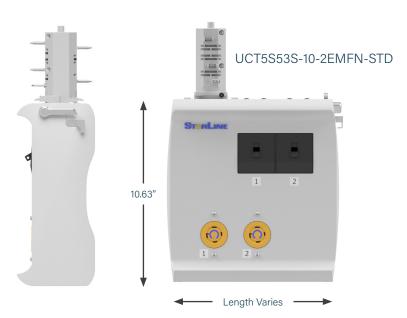


50 SERIES ENCLOSURE CUT SHEET

PRODUCT DESCRIPTION

Next-generation, custom engineered enclosure that features a stylish exterior combined with a spacious interior and customizable body length to accommodate a wide variety of applications. The 50 Series enclosure is designed to tap off power from the busway. The option is available to have a reverse paddle such that the enclosure faces in the opposite direction when in the busway.

- Configurable unit length for multiple circuit breaker pole positions.
- Consult factory for possible combinations*





BOX LENGTHS						
51:	6.00"					
52:	8.00"					
53:	10.00"					
54:	12.00"					
55:	13.00″					
56:	15.00"					
57:	18.00"					

EXAMPLES

UCT5C54S-22-2ACFN-STD = US, Circuit Breaker Plug, T5 Systems, Case (Housing) Ground, 54 Box, Standard Orientation, 22 Interrupt Rating, 2 Devices, L21-30, Front Located, No Accessories, Painted Factory Silver

UCT5G53S-10-2EMFN-STD = US, Circuit Breaker Plug, T5 Systems, Isolated (Separate) Ground, 53 Box, Standard Orientation, 10 Interrupt Rating, 2 Devices, IGL15-30, Front Located, No Accessories, Painted Factory Silver



90 SERIES ENCLOSURE CUT SHEET

PRODUCT DESCRIPTION

Next-generation, custom engineered enclosure that features a stylish exterior combined with a spacious interior and customizable body length to accommodate a wide variety of applications. The 90 Series enclosure is designed to tap off power from the busway. The option is available to have a reverse paddle such that the enclosure faces in the opposite direction when in the busway.

- Configurable unit length for multiple circuit breaker pole positions.
- Consult factory for possible combinations*

Length Varies

EXAMPLES

<u>UCT5C93S-50-1AKFN-STD</u> = US, Circuit Breaker Plug, T5 Systems, Case (Housing) Ground, 93 Box, Standard Orientation, 50 Interrupt Rating, 1 Device, CS8369, Front Located, No Accessories, Painted Factory Silver

<u>UCT5C94S-10-2BGB050F-STD</u> = US, Circuit Breaker Plug, T5 Systems, Case (Housing) Ground, 94 Box, Standard Orientation, 10 Interrupt Rating, 2 Devices, I6-30, Bottom Located, 5 foot Drop Cord, Finger Shroud, Painted Factory Silver



DEVICE CODE TABLE

	NEMA Connectors								
Device Code	Device Designation	Туре	Voltage	Wiring Configuration					
BS	5-15C	Connector	120	1PNG					
FF	5-15Q-X	Connector 120		1PNG					
BD	5-20C	Connector	120	1PNG					
FG	5-20-Q-X	Connector	120	1PNG					
BB	6-15C	Connector	240	2PG					
FH	6-15Q-X	Connector	240	2PG					
BC	6-20C	Connector	240	2PG					
FI	6-20Q-X	Connector	240	2PG					
со	L14-20C	Connector	120/208	2PNG					
CN	L14-30C	Connector	120/208	2PNG					
СМ	L15-20C	5-20C Connector 240		3PG					
CL	L15-30C	Connector	240	3PG					
CE	L16-20C	Connector	480	3PG					
CD	L16-30C	Connector	480	3PG					
CS	L21-20C	Connector	120/208	3PNG					
СТ	L21-30C	Connector	120/208	3PNG					
FA	L22-20C	Connector	277/480	3PNG					
EZ	L22-30C	Connector	277/480	3PNG					
BR	L5-15C	Connector	120	1PNG					
BE	L5-20C	Connector	120	1PNG					
BF	L5-30C	Connector	120	1PNG					
BA	L6-15C	Connector	240	2PG					
BH	L6-20C	Connector	240	2PG					
BG	L6-30C	Connector	240	2PG					
СК	L7-15C	Connector	277	1PNG					
CJ	L7-20C	Connector	277	1PNG					
CF	L7-30C	Connector	277	1PNG					

- 1 = Number of poles
- P = Poles
- N = Neutral
- G = Ground

Pin & Sleeve Connectors								
Device Code	Device Designation	Туре	Voltage	Wiring Configuration				
BJ	360C6W	Connector	240	2PG				
BQ	420C6W	Connector	240	2PNG				
BW	430C7W	Connector	480	3PG				
BP	430C9W	Connector	240	3PG				
BX	460C7W	Connector	480	3PG				
EJ	460C9S	Connector	240	3PG				
EI	460C9W	Connector	240	3PG				
BZ	520C6S	Connector	240/415	3PNG				
сс	530C6S	Connector	240/415	3PNG				
EX	530C6W	Connector	240/415	3PNG				



DEVICE CODE TABLE

Pin & Sleeve Connectors (Continued)								
Device Code	Device Designation	Туре	Voltage	Wiring Configuration				
СН	530C7S	Connector	480	3PNG				
BI	530C9W	Connector	240/415	3PNG				
СВ	560C6S	Connector	240/415	3PNG				
CI	560C7S	Connector	480	3PNG				
EH	560C9W	Connector	120/208	3PNG				
BV	320C6S	Connector	240	2PG				
BU	330C6S	Connector	240	2PG				
BT	360C6S	Connector	240	2PG				
BO	560C9S	Connector	120/208	3PNG				

- 1 = Number of poles
- P = Poles
- N = Neutral
- G = Ground

	NEMA Receptacles							
Device Code	Device Designation	Туре	Voltage	Wiring Configuration				
DD	14-20R	Receptacle	120/208	2PNG				
DC	14-30R	Receptacle	120/208	2PNG				
CW	14-50R	Receptacle	120/208	2PNG				
CV	14-60R	Receptacle	120/208	2PNG				
CU	15-20R	Receptacle	240	3PG				
CY	15-30R	Receptacle	240	3PG				
DI	15-50R	Receptacle	240	3PG				
DH	15-60R	Receptacle	240	3PG				
AW	5-15D	Receptacle	120	1PNG				
FB	5-15Q	Receptacle	120	1PNG				
DN	5-15R	Receptacle	120	1PNG				
AB	5-20D	Receptacle	120	1PNG				
DL	5-20D-GFI	Receptacle	120	1PNG				
FC	5-20Q	Receptacle	120	1PNG				
DM	5-20R	Receptacle	120	1PNG				
DV	5-30R	Receptacle	120	1PNG				
GB	6-15D	Receptacle	240	2PG				
FD	6-15Q	Receptacle	240	2PG				
DU	6-15R	Receptacle	240	2PG				
GC	6-20D	Receptacle	240	2PG				
FE	6-20Q	Receptacle	240	2PG				
DO	6-20R	Receptacle	240	2PG				
DR	6-30R	Receptacle	240	2PG				
DA	6-50R	Receptacle	240	2PG				
CZ	L14-20R	Receptacle	120/208	2PNG				
DB	L14-30R	Receptacle	120/208	2PNG				
СХ	L15-20R	Receptacle	240	3PG				
AH	L15-30R	Receptacle	240	3PG				
EO	L16-20R	Receptacle	480	3PG				



DEVICE CODE TABLE

NEMA Receptacles (Continued)									
Device Code	Device Designation	Voltage	Wiring Configuration						
EQ	L16-30R	Receptacle	480	3PG					
AT	L21-20R	Receptacle	120/208	3PNG					
AC	L21-30R	Receptacle	120/208	3PNG					
AA	L22-20R	Receptacle	277/480	3PNG					
AF	L22-30R	Receptacle	277/480	3PNG					
AS	L5-15D	Receptacle	120	1PNG					
AP	L5-15R	Receptacle	120	1PNG					
AG	L5-20R	Receptacle	120	1PNG					
AO	L5-30R	Receptacle	120	1PNG					
DP	L6-15D	Receptacle	240	2PG					
DQ	L6-15R	Receptacle	240	2PG					
AI	L6-20R	Receptacle	240	2PG					
AD	L6-30R	Receptacle	240	2PG					
ES	L7-15D	Receptacle	277	1PNG					
ER	L7-15R	Receptacle	277	1PNG					
AQ	L7-20R	Receptacle	277	1PNG					
EP	L7-30R	Receptacle	277	1PNG					

- 1 = Number of poles
- P = Poles
- N = Neutral
- G = Ground

Pin & Sleeve Receptacles									
Device Code	Device Designation	Voltage	Wiring Configuration						
FJ	316A6S	Receptacle	240/415	2PG					
FK	316A6W	Receptacle	240/415	2PG					
FL	316R6S	Receptacle	240/415	2PG					
FM	320A6S	Receptacle	240/415	2PG					
FN	320A6W	Receptacle	240/415	2PG					
FO	332A6S	Receptacle	240/415	2PG					
FP	332A6W	Receptacle	240/415	2PG					
FQ	332A9S	Receptacle	240/415	2PG					
FR	332R6S	Receptacle	240/415	2PG					
DG	360R6W	Receptacle	240	2PG					
FS	363R6S	Receptacle	240/415	2PG					
DF	430R9W	Receptacle	240	3PG					
AU	460R9S	Receptacle	240	3PG					
AN	460R9W	Receptacle	240	3PG					
FT	5125R6S	Receptacle	240/415	3PNG					
FU	516A6S	Receptacle	240/415	3PNG					
FV	516A6W	Receptacle	240/415	3PNG					
FW	516R6S	Receptacle	240/415	3PNG					
FX	520A6W	Receptacle	240/415	3PNG					
FY	520R6S	Receptacle	240/415	3PNG					
AR	530R6S	Receptacle	240/415	3PNG					
FZ	532A6S	Receptacle	240/415	3PNG					
GA	532A6W	Receptacle	240/415	3PNG					



DEVICE CODE TABLE

Pin & Sleeve Receptacles (Continued)								
Device Code	e Code Device Designation		Voltage	Wiring Configuration				
BY	560R6S	Receptacle	240/415	3PNG				
DS	360C4W	Receptacle	120	1PNG				

Isolated Ground Receptacles								
Device Code	Device Designation Type		Voltage	Wiring Configuration				
EN	IG14-30R	Receptacle	120/208	2PNG				
AX	IG5-20D	Receptacle	120	1PNG				
EA	IG5-20R	Receptacle	120	1PNG				
DY	IG6-20D	Receptacle	240	2PG				
DZ	IG6-20R	Receptacle	240	2PG				
EK	IGL14-20R	Receptacle	120/208	2PNG				
ET	IGL15-20R	Receptacle	240	3PG				
EM	IGL15-30R	Receptacle	240	3PG				
EL	IGL21-20R	Receptacle	120/208	3PNG				
EG	IGL21-30R	Receptacle	120/208	3PNG				
EU	IGL22-20R	Receptacle	277/480	3PNG				
EV	IGL22-30R	Receptacle	277/480	3PNG				
EB	IGL5-15R	Receptacle	120	1PNG				
AY	IGL5-20R	Receptacle	120	1PNG				
ED	IGL5-30R	Receptacle	120	1PNG				
DW	IGL6-15D	Receptacle	240/415	2PG				
DX	IGL6-15R	Receptacle	240/415	2PG				
AM	IGL6-20R	Receptacle	240/415	2PG				
AZ	IGL6-30R	Receptacle	240/415	2PG				

WIRING CONFIGURATION REFERENCE TABLE

- 1 = Number of poles
- P = Poles

G = Ground

California Connectors								
Device Code	Device Designation	Туре	Voltage	Wiring Configuration				
CP	CS6360C	Connector	120	1PNG				
CG	CS8164C	Connector	480	3PG				
CR	CS8264C	Connector	240	2PG				
CQ	CS8364C	Connector 240		3PG				

	California Receptacles									
Device Code	Device Designation	Туре	Voltage	Wiring Configuration						
DK	CS6369	Receptacle	120/208	2PNG						
DE	CS8269	Receptacle	240	2PG						
AK	CS8369	Receptacle	240	3PG						

Other								
Device Code	Device Designation	Туре	Voltage	Wiring Configuration				
XX	Custom Device (ex: colore	Custom Device (ex: colored receptacle, etc.)						

N = Neutral



S5 PLUG-IN UNITS

PRODUCT DESCRIPTION

S5 Plug-in Units are designed to provide the same "plug and play" flexibility for our S5 systems. These Plug-In units have been tested and certified to meet the additional ingress protection levels of the overall system.

OPTIONS:

- 1. Receptacle Box/Drop Cord Units
- 2. Circuit Breaker Units only
- 3. Meter Plugs

GENERAL SPECS:

- Three (3) Standard size enclosures
 - ES1 Up to 3 poles available
 - ES2 Up to 6 poles available
 - ES3 Up to 9 poles available
- · Clear cover protects breakers and meter while maintaining status visibility
- UV, Corrosion, and impact-resistant materials
- NEMA & IEC watertight devices available
- Breaker actuators for floor operability
- Lock-out lids and breaker
- Up to 125A per box
- 65kA Short Circuit rating @480V
- Compatible with Starline meters
- Wide range of configuration options

Note: Series-S Plug-in Units come standard with tap-off seal assembly. Reference T5 Accessories **page 4.110** to order separately.







SERIES-S ENCLOSURE STYLE OPTIONS

ES1 ENCLOSURE

Dimensions(in):

H: 10.5" W: 8" D: 6.36"

Configuration Options:

- Up to 3 Poles
- Up to 3 drop cords
- Meter available
- 1 Bottom-Mounted receptacle

ES2 ENCLOSURE

Dimensions(in):

H: 10.5" W: 11" D: 6.36"

Configuration Options:

- Up to 6 Poles
- Up to 6 drop cords
- Meter available
- Up to 1 Front-Mounted or 2 Bottom-Mounted receptacles

ES3 ENCLOSURE

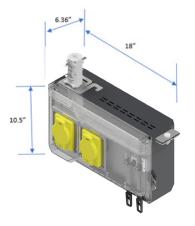
Dimensions(in):

H: 10.5" W: 18" D: 6.36"

Configuration Options:

- Up to 9 Poles
- Up to 9 drop cords
- Meter available
- Up to 2 Front-Mounted or 3 Bottom-Mounted receptacles









SYSTEM & BUILD GUIDE

The below is a suggested list of questions to determine answers to in order to properly build or assemble both Track Busway systems and plugs.

WHEN BUILDING SYSTEMS

- 1. What is the amperage needed for the system? (250, 400, 500, etc..)
- 2. Does the system need an internal ground?
- 3. Are there any limitations on the length of a run? (5ft max, 10ft max)

WHEN DETERMINING DESIRED PLUG CONFIGURATIONS

1. What type of system is this being used on? (S5)

2. Does the system have an internal ground? If so, does the plug need to be wired Isolated or Dedicated ground/earth?

3. What is the fault current needed for the breaker? (10kAIC, 22kAIC, etc..)

- 4. Does the plug need to have drop cords or receptacles?
- 5. What is the device configuration of the connector bodies or receptacles?
- 6. What is your desired MCB configuration? (phase, amperage, poles?)
- 7. Do you require metering?
- 8. How many outlets are needed?
- 9. What is the trip curve needed?
- 10. What MCB brand is preferred?
- 11. What is the voltage required?

CIRCUIT BREAKER/FUSED DISCONNECT UNITS W/ DEVICES: PRODUCT NUMBERS

	U	С	S5	С	S 3	S	-	14	-	1	
	1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Interrupt Rating	I	3. Device Quantity	
	RU	F	010	Ν	- M51	D] -	STD		0	*Optional
	9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories	*13. Meter Release	*14. Meter Options		15. Paint Color		6. op Cord oe Markin	g
. System (st	andard of meas	sure)			12. Acc	essories (op	otiona	al accessorie	s for	plugs)	
J US					N N.	/A					
. Product T	ype (section c	omponent)			*13. Me	ter Release	(M5	0 AC)			
Circuit I	Breaker Unit	F	Fused Disco	nnect Unit		ngle Eth./W ngle Eth./No					
3. Compatib	ility (frame co	mpatibility)			V58 Du	ual Eth., ≤48	0V Y	, ≤277V Δ			
5 S5 Syst	em					ual Eth/Dual ual Eth/Dual					Breaker Monitorin
1. Ground (g	round type inst	talled)				ial Eth, Brea					
	lousing) Grou		Dedicated G	round	*13. Me	ter Release	(M6	0 DC)			
	(Separate) G					ngle Eth./W					
	size enclosure)					ngle Eth./No ual Eth., sing			hase	, VDC	
			tyle Options, p	age 4.144)		ual Eth/Dua			e ph	ase, VDC)
	n (what direct	1 - C	· ·		*14. Me	ter Options	(M5	0 AC)			
S Standar	-	R	Reversed			andard			Ν		ed) Neutral
			e breakers in K)		D Di	splay		I	Ρ	Professio	onal (D+N)
0, 14, 22, 2	5, 30, 35, 50	, 65, CC (C	C = 200,000) (for U.S.)	*14. Me	ter Options	(M6	0 DC)			
	iantity (quant	· · · · ·				andard (High			P		(48 VDC)
	6, 7, 8 (for m [,] Table, page 4		evice type, refe	er to S5		splay (High \ ters support: H			Q 300	Display (VDC/Split	48 VDC) Phase 120 VDC
	antity of device				(+/-60) t	o 380 VDC (+/	'-180)	OR Low Volt	age:	48 VDC	
		·	e Table, page	4147)	15. Pair	nt Color					
			sway polarizing	,	STD S	Standard Da	rk G	ray			
F Front		B	Bottom	suipe)		Consult Fact	-	,	otions	5	
*11. Drop Co	rd Length (lo	cation of optio	nal meter)			p Cord Tape		•	-		Dlus
	et, Y = Inches					e Factory Bl e Factory W		7 8		e Factory e Factory	
			,								
(only can be ch			'0 amps, the max		6 Tap	e Factory Re	ed	9	Тар	e Factory	/ Yellow

EXAMPLE

UCS5CS3S-22-20SFN-STD0 = US System, circuit Breaker Only Unit, S5 System, Case Ground, S3 Box, Standard Orientation, 22kA interrupt rating, 2 devices, NEMA L5-15R-IP receptacles, front mount location, no accessories, no meter, standard dark gray color



US DEVICE CODE TABLE

			NEMA	Connectors	;		
Code	Туре	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
RU	NEMA	5-15C-IP	CONNECTOR	120	15	1PNG	IP67
PV	NEMA	L5-15C-IP	CONNECTOR	120	15	1PNG	IP67
RV	NEMA	6-15C-IP	CONNECTOR	240	15	2PG	IP67
PW	NEMA	L6-15C-IP	CONNECTOR	240	15	2PG	IP67
РХ	NEMA	L7-15C-IP	CONNECTOR	277	15	1PNG	IP67
RW	NEMA	5-20C-IP	CONNECTOR	120	20	1PNG	IP67
ΡΥ	NEMA	L5-20C-IP	CONNECTOR	120	20	1PNG	IP67
RX	NEMA	6-20C-IP	CONNECTOR	240	20	2PG	IP67
ΡZ	NEMA	L6-20C-IP	CONNECTOR	240	20	2PG	IP67
QC	NEMA	L15-20C-IP	CONNECTOR	240	20	3PG	IP67
QA	NEMA	L7-20C-IP	CONNECTOR	277	20	1PNG	IP67
QD	NEMA	L16-20C-IP	CONNECTOR	480	20	3PG	IP67
QG	NEMA	L23-20C-IP	CONNECTOR	600	20	3PNG	IP67
QB	NEMA	L14-20C-IP	CONNECTOR	120/208	20	2PNG	IP67
QE	NEMA	L21-20C-IP	CONNECTOR	120/208	20	3PNG	IP67
QF	NEMA	L22-20C-IP	CONNECTOR	277/480	20	3PNG	IP67
QH	NEMA	L5-30C-IP	CONNECTOR	120	30	1PNG	IP67
QI	NEMA	L6-30C-IP	CONNECTOR	240	30	2PG	IP67
QL	NEMA	L15-30C-IP	CONNECTOR	240	30	3PG	IP67
QJ	NEMA	L7-30C-IP	CONNECTOR	277	30	1PNG	IP67
QM	NEMA	L16-30C-IP	CONNECTOR	480	30	3PG	IP67
QN	NEMA	L17-30C-IP	CONNECTOR	600	30	3PG	IP67
QR	NEMA	L23-30C-IP	CONNECTOR	600	30	3PNG	IP67
QK	NEMA	L14-30C-IP	CONNECTOR	120/208	30	2PNG	IP67
QO	NEMA	L18-30C-IP	CONNECTOR	120/208	30	3PG	IP67
QP	NEMA	L21-30C-IP	CONNECTOR	120/208	30	3PNG	IP67
QQ	NEMA	L22-30C-IP	CONNECTOR	277/480	30	3PNG	IP67

WIRING CONFIGURATION REFERENCE TABLE

- N = Neutral
- G = Ground

^{1 =} Number of poles

P = Poles



US DEVICE CODE TABLE

			Pin & Slee	eve Connec	tors		
Code	Туре	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
SU	IEC	320C7W	CONNECTOR	480	20	2PG	IP67
SY	IEC	420C7W	CONNECTOR	480	20	3PG	IP67
ТА	IEC	320C9W	CONNECTOR	120/208	20	2PG	IP67
SZ	IEC	520C7W	CONNECTOR	277/480	20	3PNG	IP67
sv	IEC	330C7W	CONNECTOR	480	30	2PG	IP67
тв	IEC	330C9W	CONNECTOR	120/208	30	2PG	IP67
SW	IEC	360C7W	CONNECTOR	240	60	2PG	IP67
тс	IEC	360C9W	CONNECTOR	120/208	60	2PG	IP67
SX	IEC	3100C7W	CONNECTOR	480	100	2PG	IP67
TD	IEC	3100C9W	CONNECTOR	120/208	100	2PG	IP67
BI	IEC	530C9W	CONNECTOR	ECTOR 120/208 30		3PNG	IP67
BP	IEC	430C9W	CONNECTOR	250	30	3PG	IP67
BW	IEC	430C7W	CONNECTOR	480	30	3PG	IP67
BX	IEC	460C7W	CONNECTOR	480	60	3PG	IP67
EH	IEC	560C9W	CONNECTOR	120/208	60	3PNG	IP67
EI	IEC	460C9W	CONNECTOR	250	60	3PG	IP67
GI	IEC	4100C9W	CONNECTOR	250	100	3PG	IP67
GJ	IEC	560C7W	CONNECTOR	277/480	60	3PNG	IP67
GK	IEC	530C7W	CONNECTOR	277/480	30	3PNG	IP67
GR	IEC	5100C7W	CONNECTOR	277/480	100	3PNG	IP67
GS	IEC	5100C9W	CONNECTOR	120/208	100	3PNG	IP67
МК	IEC	4100C7W	CONNECTOR	480	100	3PG	IP67
NL	IEC	420C9W	CONNECTOR	250	20	3PG	IP67



- 1 = Number of poles
- P = Poles
- N = Neutral
- G = Ground



US DEVICE CODE TABLE

			NEMA F	Receptacles	5		
Code	Туре	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
RQ	Nema	5-15R-IP	RECEPTACLE	120	15	1PNG	IP67
QS	NEMA	L5-15R-IP	RECEPTACLE	120	15	1PNG	IP67
RR	NEMA	6-15R-IP	RECEPTACLE	240	15	2PG	IP67
QT	NEMA	L6-15R-IP	RECEPTACLE	240	15	2PG	IP67
QU	NEMA	L7-15R-IP	RECEPTACLE	277	15	1PNG	IP67
RS	NEMA	5-20R-IP	RECEPTACLE	120	20	1PNG	IP67
QV	NEMA	L5-20R-IP	RECEPTACLE	120	20	1PNG	IP67
RT	NEMA	6-20R-IP	RECEPTACLE	240	20	2PG	IP67
QW	NEMA	L6-20R-IP	RECEPTACLE	240	20	2PG	IP67
QZ	NEMA	L15-20R-IP	RECEPTACLE	240	20	3PG	IP67
QX	NEMA	L7-20R-IP	RECEPTACLE	277	20	1PNG	IP67
RA	NEMA	L16-20R-IP	RECEPTACLE	480	20	3PG	IP67
RD	NEMA	L23-20R-IP	RECEPTACLE	600	20	3PNG	IP67
QY	NEMA	L14-20R-IP	RECEPTACLE	120/208	20	2PNG	IP67
RB	NEMA	L21-20R-IP	RECEPTACLE	120/208	20	3PNG	IP67
RC	NEMA	L22-20R-IP	RECEPTACLE	277/480	20	3PNG	IP67
RE	NEMA	L5-30R-IP	RECEPTACLE	120	30	1PNG	IP67
RF	NEMA	L6-30R-IP	RECEPTACLE	240	30	2PG	IP67
RI	NEMA	L15-30R-IP	RECEPTACLE	240	30	3PG	IP67
RG	NEMA	L7-30R-IP	RECEPTACLE	277	30	1PNG	IP67
RJ	NEMA	L16-30R-IP	RECEPTACLE	480	30	3PG	IP67
RK	NEMA	L17-30R-IP	RECEPTACLE	600	30	3PG	IP67
RN	NEMA	L23-30R-IP	RECEPTACLE	600	30	3PNG	IP67
RH	NEMA	L14-30R-IP	RECEPTACLE	120/208	30	2PNG	IP67
RL	NEMA	L21-30R-IP	RECEPTACLE	120/208	30	3PNG	IP67
RM	NEMA	L22-30R-IP	RECEPTACLE	277/480	30	3PNG	IP67

WIRING CONFIGURATION REFERENCE TABLE

- P = Poles
- N = Neutral
- G = Ground

^{1 =} Number of poles



US DEVICE CODE TABLE

			Pin & Slee	ve Receptad	les		
Code	Туре	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
SN	IEC	420R9W	RECEPTACLE	240	20	3PG	IP67
RY	IEC	320R7W	RECEPTACLE	480	20	2PG	IP67
SC	IEC	420R7W	RECEPTACLE	480	20	3PG	IP67
SQ	IEC	520R9W	RECEPTACLE	120/208	20	3PNG	IP67
SG	IEC	520R7W	RECEPTACLE	277/480	20	3PNG	IP67
RZ	IEC	330R7W	RECEPTACLE	480	30	2PG	IP67
SD	IEC	430R7W	RECEPTACLE	480	30	3PG	IP67
SR	IEC	530R9W	RECEPTACLE	120/208	30	3PNG	IP67
SA	IEC	360R7W	RECEPTACLE	CLE 480		2PG	IP67
SH	IEC	560R7W	RECEPTACLE	277/480	60	3PNG	IP67
SE	IEC	460R7W	RECEPTACLE	480	60	3PG	IP67
SO	IEC	460R9W	RECEPTACLE	120/208	60	3PG	IP67
SS	IEC	560R9W	RECEPTACLE	120/208	60	3PNG	IP67
SB	IEC	3100R7W	RECEPTACLE	480	100	2PG	IP67
SF	IEC	4100R7W	RECEPTACLE	480	100	3PG	IP67
SP	IEC	4100R9W	RECEPTACLE	120/208	100	3PG	IP67
ST	IEC	5100R9W	RECEPTACLE	120/208	100	3PNG	IP67
SI	IEC	5100R7W	RECEPTACLE	277/480	100	3PNG	IP67

- 1 = Number of poles
- P = Poles
- N = Neutral
- G = Ground

CIRCUIT BREAKER/FUSED DISCONNECT UNITS, NO DEVICES: PRODUCT NUMBERS

		U	C	; 5	65	С	S2	;	S –	14	_			
		1. System	2. Produ Type	3. ct Comp	4. atibility Gro	5. ound Bo		6. Orier	ntation	7. Interrupt Rating				
2	030	3	480	050	5	Ν	- 1	M59	D	3	-	STD	0	*Optiona
8. Circuit Protection Quantity	9. Amperage	10. Poles	11. Voltage	*12. Drop Cord Length	*13. Number of Wires	14. Accessorie:	15 s M	i. leter	16. Meter Options	17. Meter Configurat		18. Paint Color	*19. Drop Cord Tape Marking	I

1. System (standard of measure)	14. Accessories (optional accessories for plugs)					
U US	N N/A					
2. Product Type (section component)	15. Meter					
C Circuit Breaker Unit F Fused Disconnect Unit	M51 Single Eth./WiFi, ≤480V Y, ≤277V Δ					
3. Compatibility (frame compatibility)	M53 Single Eth./No WiFi, ≤480V Y, ≤277V Δ M58 Dual Eth, ≤480V Y, ≤277V Δ					
S5 System	M59 Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ M56 Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ, Breaker Monitoring					
4. Ground (ground type installed)						
C Case (Housing) Ground D Dedicated Ground	16. Meter Options (M50 AC)					
G Isolated (Separate) Ground	SStandardN(Measured) NeutralDDisplayPProfessional (D+N)					
5. Box (what size enclosure)	*16. Meter Options (M60 DC)					
S1, S2, S3 (refer to S5 Enclosure Style Options, page 4.144)	 S Standard (High Voltage) P Standard (48 VDC) D Display (High Voltage) Q Display (48 VDC) 					
6. Orientation (what direction the paddle faces)	M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/					
S Standard R Reversed	60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC					
7. Interrupt Rating (interrupt rating of the breakers in K)	*17. Meter Configuration					
10, 14, 22, 25, 30, 35, 50, 65, CC (CC = 200,000) (for US)	1 LL power, Delta Solid Core, mV CT 3 LN power, Wye Solid Core, mV CT					
8. Circuit Protection Quantity	4 LL power, Delta Solid Core, 5A-secondary CT					
1, 2, 3, 4, 5, 6	 6 LN power, Wye Solid Core, 5A-secondary CT 7 LL power, Delta Split Core, mV CT 					
9. Amperage	9 LN power, Wye Split Core, mV CT					
015, 020, 030, 60, 100	K LL power, Delta Split Core, 5A-secondary CT M LN power, Wye Split Core, 5A-secondary CT					
10. Poles (number of poles in a circuit)	*14. Meter Configuration (M60 DC)					
1, 2, 3, 4, 5	1 Circuit 1 Only, Solid Core 3 Both Circuits, Solid Core					
11. Voltage	2 Circuit 2 Only, Solid Core					
120, 240, 277, 300, 415, 480, 600	17. Paint Color					
*12. Drop Cord Length (length of drop cord)	STD Standard Dark Gray					
010 1 foot XXY XX=feet, Y=inches	Note: Consult Factory for other options					
(only can be chosen in 6" increments) For any device configuration chosen over 70 amps, the max. drop cord length is 10 feet (100)	18. Drop Cord Tape Marking					
*13. Number of Wires (M50 AC)	3 Black 6 Red 8 Green 4 White 7 Blue					
2, 3, 4, 5						

EXAMPLE

UCS5CS2S-14-203032400503N-STD0 = US System, circuit Breaker Only Unit, S5 System, Case Ground, S2 Box, Standard Orientation, 14kA interrupt rating, 2 circuits, 30 amps, 3 poles, 240v, 5 ft drop cord, 3 wires, no accessories, no meter, standard dark gray color

METER PLUGS: PRODUCT NUMBERS

	U	Μ	S	5	С	S	3	S	-	065	5	
	1. System	2. Product Type	3. Compat	4. ibility Gro	ound	5. Box		6. Orientation	n	7. Current Transforr	mer	
		-	M59	S		1	-	STD	*Op	tional		
			8. Meter Release	9. Meter Options). eter nfiguratio	P	1. Paint Color				
. System (standard of J US					9. S D	Stan	dard	ons (<i>M</i> 50 AC)		(Measured) Neutral Professional (D+N)	
2. Product Type (sect						9. Meter Options (M60 DC)						
3. Compatibility (fram 55 S5 System		ity)			М	D Display (High Voltage) Q Display (48 VDC) M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/-60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC						
Ground (ground typ Case (Housing) Box (what size enclose)	Ground				*1 1 3							
 5. Box (what size enclosure) S1, S2, S3 (refer to S5 Enclosure Style Options, page 4.144) 6. Orientation (what direction the paddle faces) S Standard R Reversed 						 4 LL power, Delta Solid Core, 5A-secondary CT 6 LN power, Wye Solid Core, 5A-secondary CT 7 LL power, Delta Split Core, mV CT 9 LN power, Wye Split Core, mV CT K LL power, Delta Split Core, 5A-secondary CT 						
Current Transform	er (current ra	225 225			M *1			r, Wye Split nfiguration			condary CT	
250 250 amps 800 800 amps IK2 1200 amps #M60 (DC) meters are or	nly available w	400 400 1K0 1000 with 800 amp	amps	ducers	1 2 3	Circu	it 2 (Only, Solid (Only, Solid (uits, Solid (Core			
8. Meter Release (M5 M51 Single Eth./WiF M53 Single Eth./No \ M58 Dual Eth., ≤480 M59 Dual Eth/Dual \	11. Paint ColorSTD Standard Dark Gray Note: Consult Factory for other options											
8. Meter Release (M6 M61 Single Eth./WiF M63 Single Eth./No \ M67 Dual Eth., single M69 Dual Eth/Dual M	i, single pha ViFi, single phase, VD(phase, VD C										

EXAMPLE

<u>UMS5CS2S-065-M59S1-STD</u> = US System, Meter Plug, S5 System, Case Ground, S2 Box, Standard Orientation, 65 Current Rating, M59 Meter, Standard, LL Power, Delta Solid Core, mV CT, Painted Factory Silver



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