TRACK BUSWAY
PRODUCT SELECTION GUIDE

Starline®
A brand of legrand®

250-400-600-800-1000-1200T5
US SYSTEMS

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 is designed primarily for overhead distribution of electrical power; supporting designated work areas and equipment. Once installed the busway provides 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 is designed, manufactured and conforms to the following standards:

CCC

UL 857, Ed. 13

CSA C22.2 No. 27

NMX-J-148-1998-ANCE

IEC 61439-1, 61439-6

Low Voltage Directive - 2014/35/EC

RoHS Directive - 2011/65/EU

*All standards and certifications available upon request

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, 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 **downloads.starlinepower.com/starline/busway/**.

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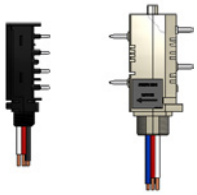
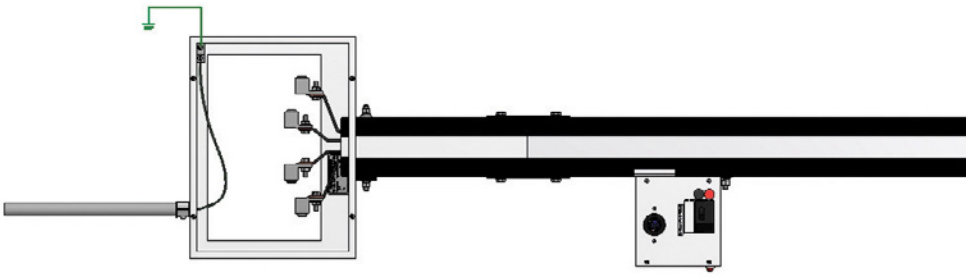
T5 ACCESSORIES

T5 PLUG-IN UNITS

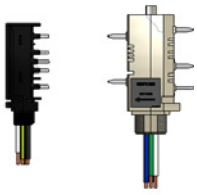
GROUND OPTIONS

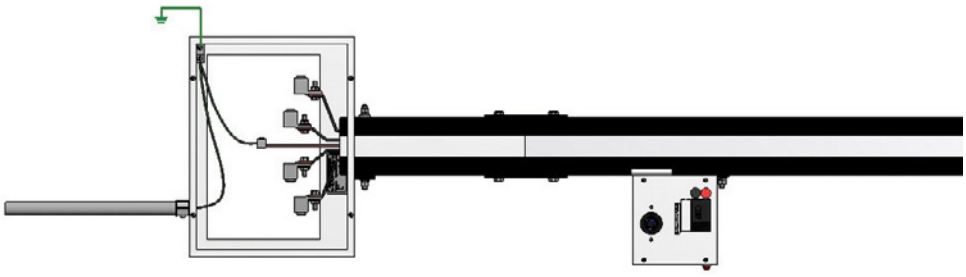
Case Ground/Chassis Earth
Uses aluminum housing and no extra copper bar.



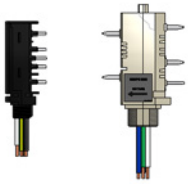


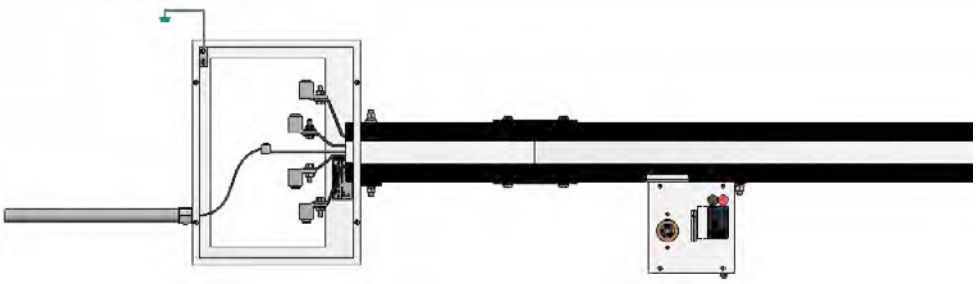
Dedicated Ground/Earth
Extra bar in busway for ground. Everything tied together inside plugs. Bar and housing at same potential.





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 **downloads.starlinepower.com/starline/**

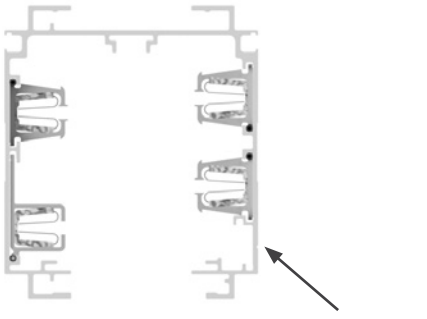
POLARITY TIPS

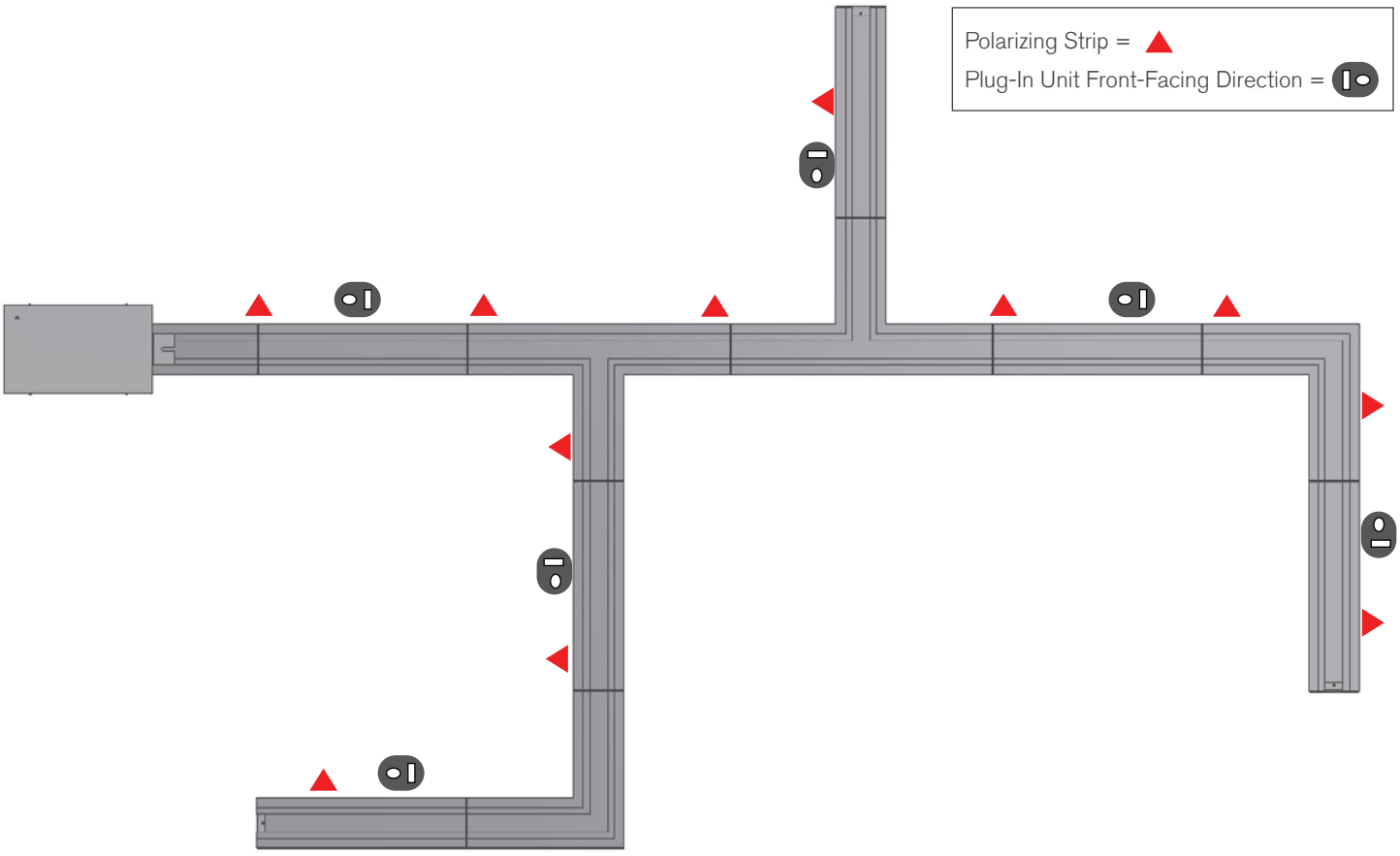
Starline utilizes a unique polarizing method to prevent mismatched components from being inadvertently connected to each other. The system is designed to prevent cross phasing during installation.

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.

A standard plug-in unit will always face the polarizing strip





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 4.81** 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 **downloads.starlinepower.com/starline/busway/**. 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.

COMPONENT RELATIONSHIP TIPS

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

Examples

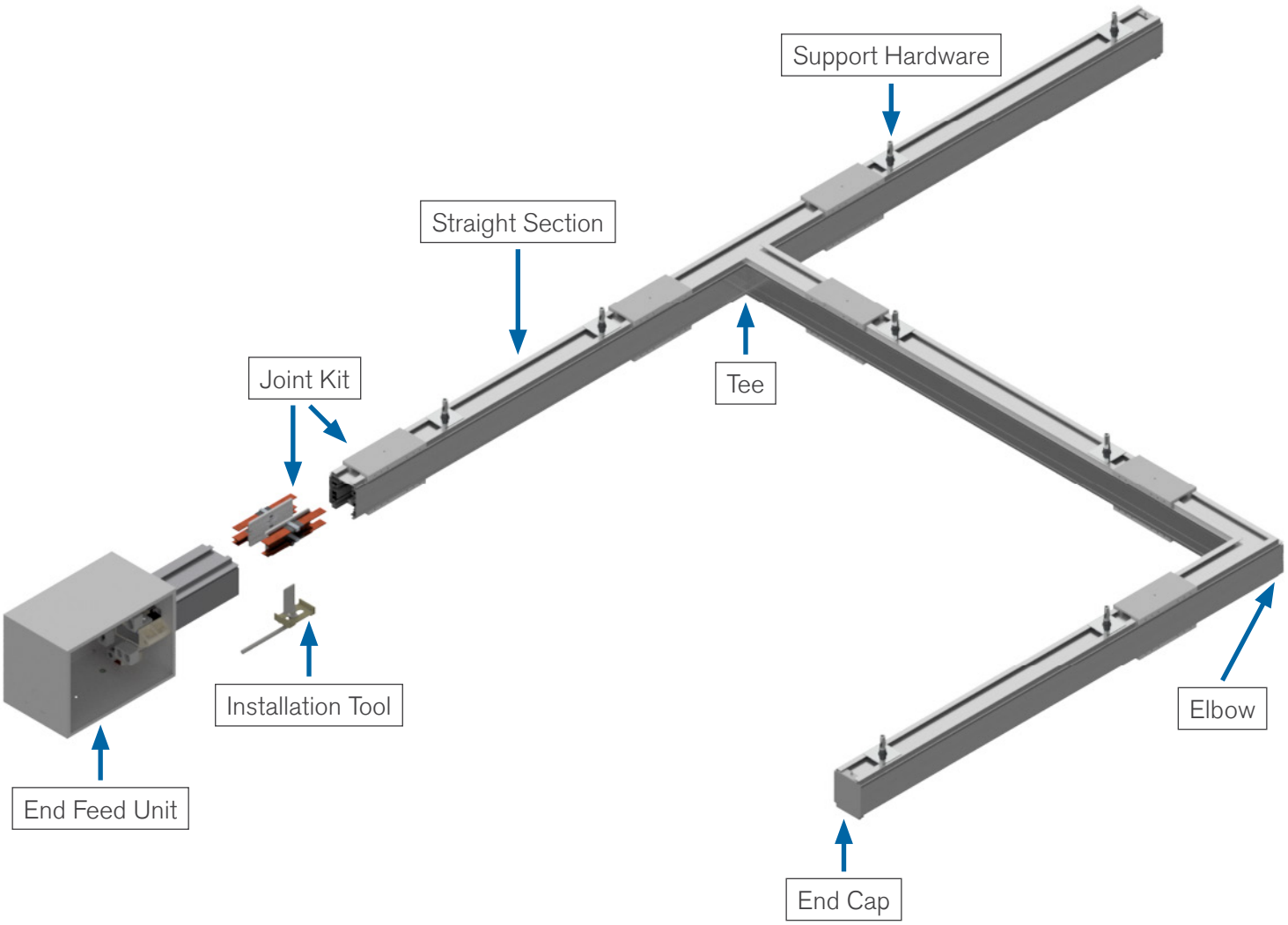
- The T5 series of plug-in units are compatible with all T5 Busway systems
- Each piece of housing (straights and elbows) requires a joint kit (containing two housing couplers and one bus connector). Determine the total number of housing sections (regardless of length) as this becomes the number of joint 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 4.5** Polarity Tips for more detail.

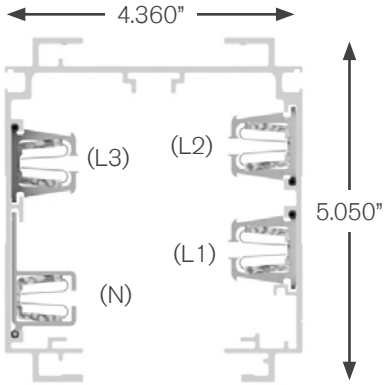
SYSTEM LAYOUT DRAWING



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, 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

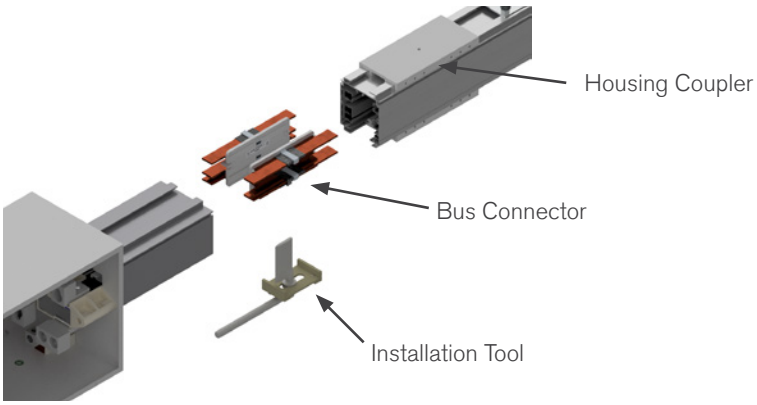
Ratings
100% Ground Path
250 Amps
250T5C4/250T5CG: 600 Volt
250T5CN/250T5CF: 600 Volt

Length
10 ft, 20 ft; or custom lengths between 2 - 20 ft

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		Metric	
L1 or Phase A	black	L1 or Phase A	brown
L2 or Phase B	red	L2 or Phase B	black
	blue		gray
L3 or Phase C	white	L3 or Phase C	blue
Neutral Ground	green/ black	Neutral Ground	green/ yellow



STRAIGHT SECTIONS: PRODUCT NUMBERS

U	S	250	T5	C	4	S	-	0200	C	-	STD	0
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Straight	9. Busway		10. Paint Color	11. Tape Marking

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

S	Straight Section

3. Product Frame *(maximum amperage)*

250	250 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

5. Material *(busbar material)*

C	Copper

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 for mating purposes)*

S	Standard

8. Straight Length *(length of section)*

XXYY	XX=feet, YY=inches

9. Busway Access *(how plugs access the busway)*

C	Continuous

10. Paint Color *(allows painting of the busway housing)*

STD	Factory Mill Finish	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

11. 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
6	Tape Factory Red		

EXAMPLES

US250T5C4S-0500C-STD0 *= 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*

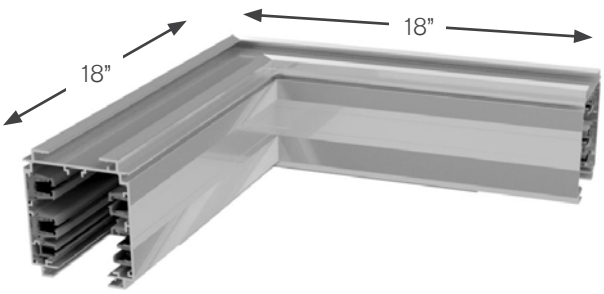
US250T5CNS-0206C-BLU0 *= US System, Straight Section, 250 amps, T5 System, Copper Conductor, 3 Phase plus 200% Neutral, Standard Polarization, 2 foot 6 inch Straight Length, Continuous Busway Access, Painted Factory Blue, No Tape Marking*

ELBOW SECTIONS

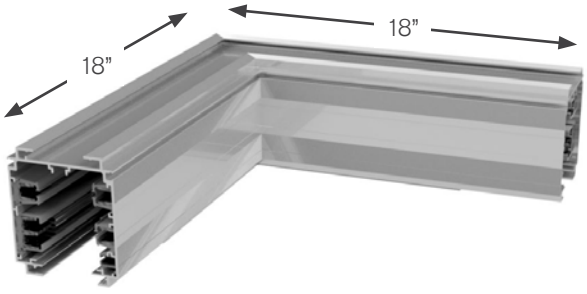
Product Description
An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify right or left elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

Connection Accessories
(Ordered Separately)
A Joint Kit (**page 4.84**) is used to make mechanical and electrical connections to adjacent busway sections.

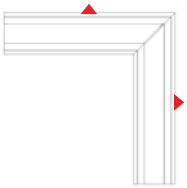
Weight
14.5 lbs



External Elbow

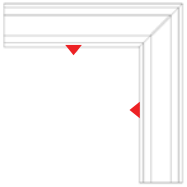


Internal Elbow



External Elbow

▲ = Polarizing Strip



Internal Elbow

ELBOW SECTIONS: PRODUCT NUMBERS

U	E	250	T5	C	4	S	-	IN	-	STD	0
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction		9. Paint Color	10. Tape Marking

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

E	Elbow Section

3. Product Frame *(maximum amperage)*

250	250 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

5. Material *(busbar material)*

C	Copper

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 for mating purposes)*

S	Standard

8. Turning Direction *(direction of section polarizing stripe)*

IN	Internal	**EX**	External
HN	Seismic Internal	**GX**	Seismic External

9. Paint Color *(allows painting of the busway housing)*

STD	Factory Mill Finish	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

10. 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
6	Tape Factory Red		

EXAMPLES

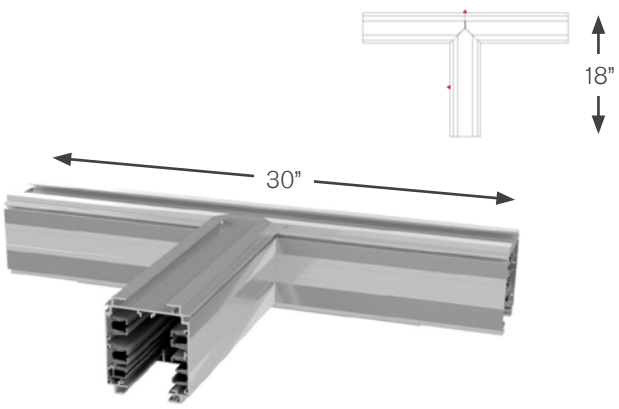
UE250T5C4S-IN-BLU4 *= US System, Elbow Section, 250 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Painted Factory Black, Factory White Tape*

UE250T5CGS-EX-STD0 *= 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*

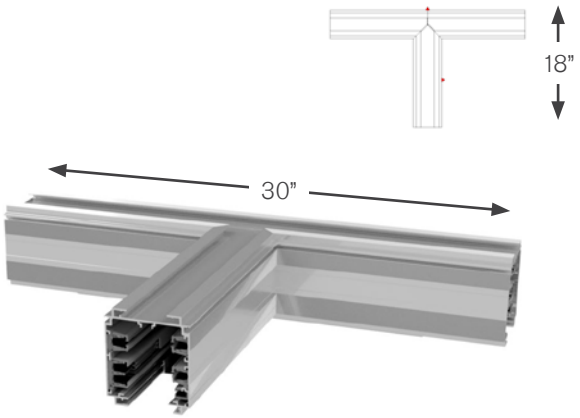
TEE SECTIONS

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.

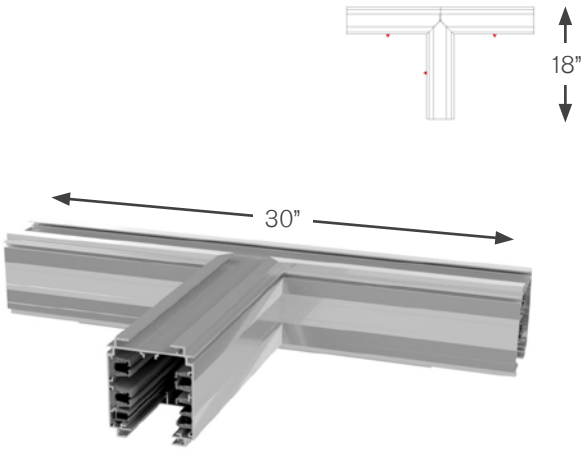
Weight
19.5 lbs



External-Left (EL)

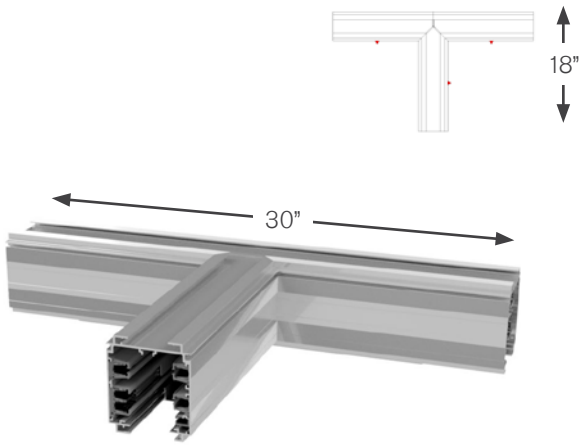


External-Right (ER)



Internal-Left (IL)

▲ = Polarizing Strip



Internal-Right (IR)

TEE SECTIONS: PRODUCT NUMBERS

U	T	250	T5	C	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	0
	9. Paint Color	10. Tape Marking

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

T	Tee Section

3. Product Frame *(maximum amperage)*

250	250 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

5. Material *(busbar material)*

C	Copper

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 for mating purposes)*

S	Standard

8. Turning Direction *(direction of section polarizing stripe)*

IL	Internal-Left	**EL**	External-Left
IR	Internal-Right	**ER**	External-Right
HL	Seismic Internal-Left	**GL**	Seismic External-Left
HR	Seismic Internal-Right	**GR**	Seismic External-Right

9. Paint Color *(allows painting of the busway housing)*

STD	Factory Mill Finish	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

10. 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
6	Tape Factory Red		

EXAMPLES

UT250T5C4S-IR-RED0 *= 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*

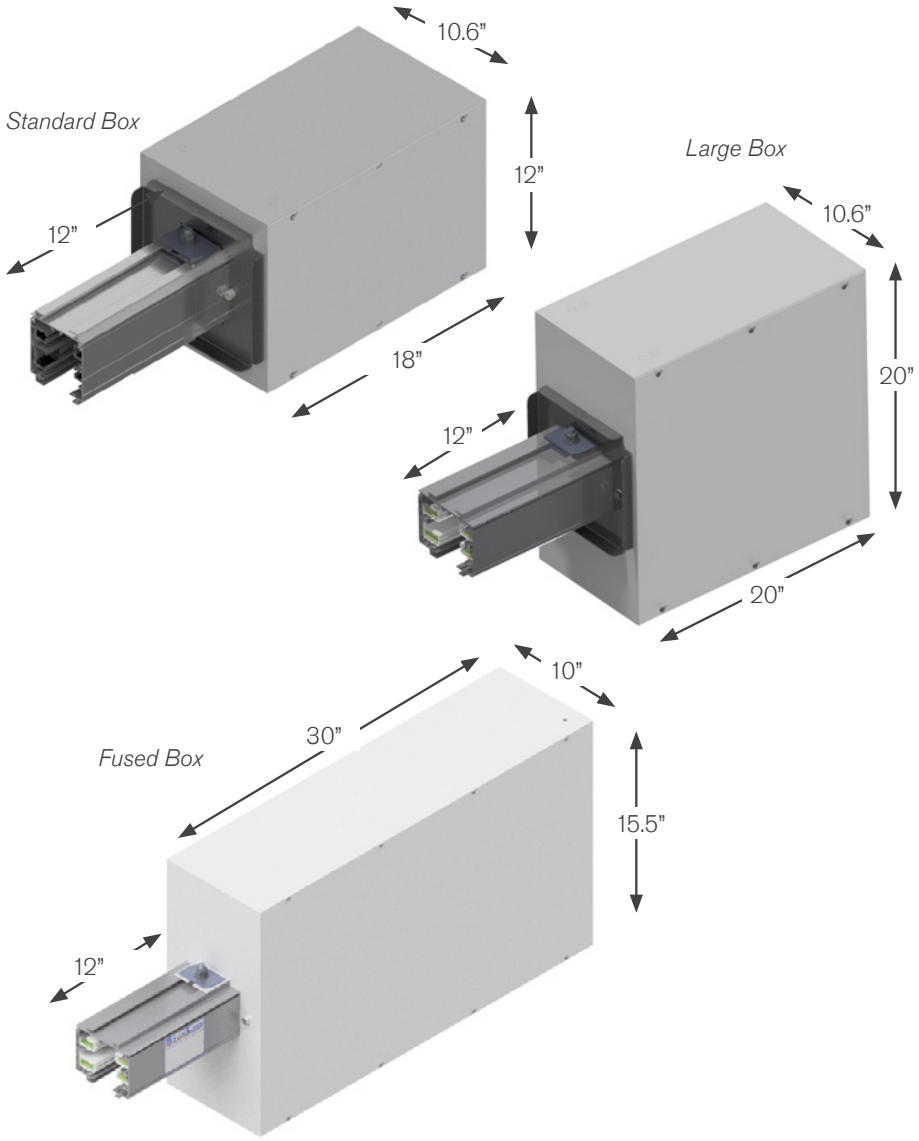
UT250T5CFS-EL-STD7 *= US System, Tee Section, 250 amps, T5 System, Copper Conductor, 3 Phase plus 200% Neutral plus Isolated/Dedicated Ground, Standard Polarization, External-Left Turning Direction, Factory Mill Finish, Factory Blue Tape Marking*

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.

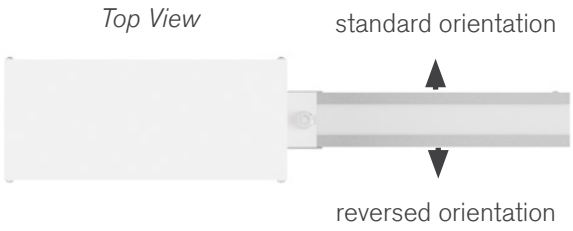
Weight (for standard size end feed)
33 lbs
*Standard busway stub size is 1 ft



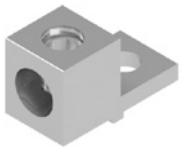
	Boxes		
Lugs	Standard	Large	Fused
Standard	S	L	F
Double			
Bolt		R	

Box size and Lug options:
Refer to option 8. Lug/Box Options on **page 4.18** *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/**


Standard "S"/"L"

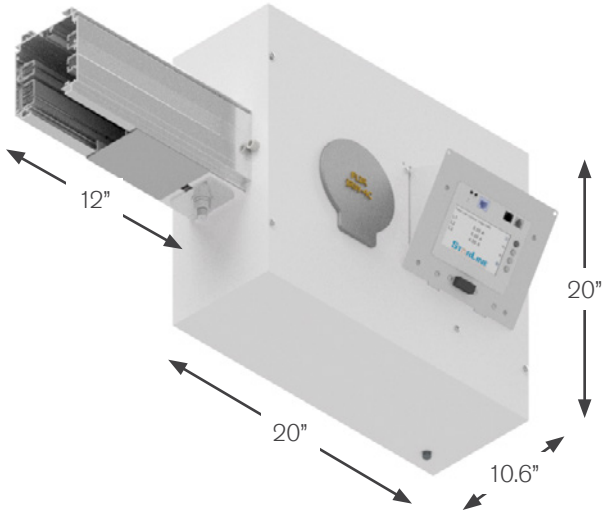

Bolt "R"

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 M40 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 with Circular IR Window and M41D CPM with 4.3 inch Display and Wi-Fi on a 30° Angled Display

Box/Lugs Option	1 Meter or Accessory	1 Meter & 1 Accessory (opposite lids)	1 Meter & 1 Accessory (same lid)
(S) Standard Box, Standard Lugs	X	X	
(L) Large Box, Standard Lugs	X	X	X
(R) Large Box, Bolt Lugs	X	X	X

AC End Feed Meter Options

M41 WiFi, ≤415V Y, ≤240V Δ

M43 No WiFi, ≤415V Y, ≤240V Δ

M45 WiFi, 600V Y, 347V Δ

M47 No WiFi, 600V Y, 347V Δ

Y = wye, Δ = delta

DC End Feed Meter Options

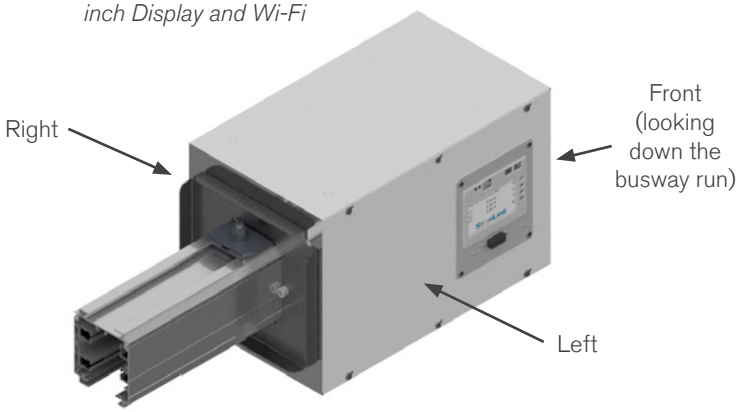
M61 Single Eth./WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

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

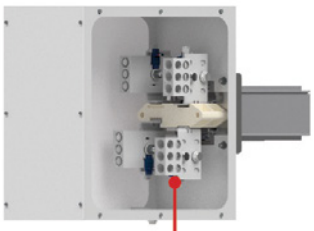
Standard Box with M41D CPM with 4.3 inch Display and Wi-Fi



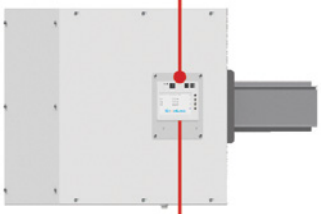
The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on* **page 4.18 *End Feed Units: Product Numbers)*

END FEED UNITS: ACCESSORIES

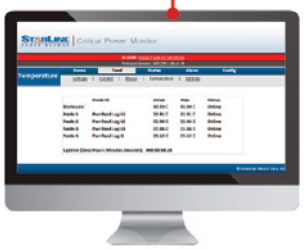
Temperature Monitor
Temperature sensor technology is now available with the Starline Critical Monitor (CPM) for End Feeds. This innovative technology is a first of its kind; making the monitoring and viewing of temperature data instantaneous.



Wired nodes are installed in the busway end feed, which measure the temperature of each mechanical or compression lug.



Each node communicates the temperature back to the Starline CPM. Both power and temperature information will now display on the meter's LCD screen.



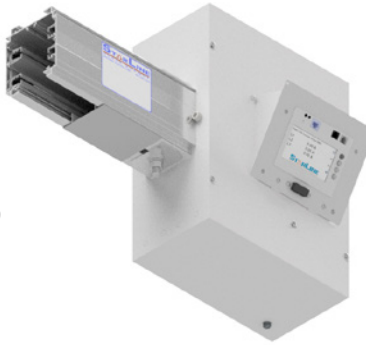
Temperature data also automatically transfer to the CPM's integral webpage—placing timely data at the end users fingertips.

(Refer to option 17. M40 Options on **page 4.19** *End Feed Units: Product Numbers)*

Angled Meter Lid
The angled meter End Feed lid is an accessory that delivers the flexibility to change the viewing angle for Display Meters in an End Feed.

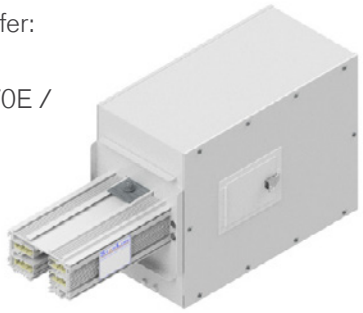
This enclosure allows for the meter to be mounted flush to the End Feed lid or presented in an extended position at 30° from vertical. This presents a more comfortable and easier viewing angle when looking up at an End Feed unit to read the LCD screen.

(Refer to option 10. Accessories Package on **page 4.18** *End Feed Units: Product Numbers)*

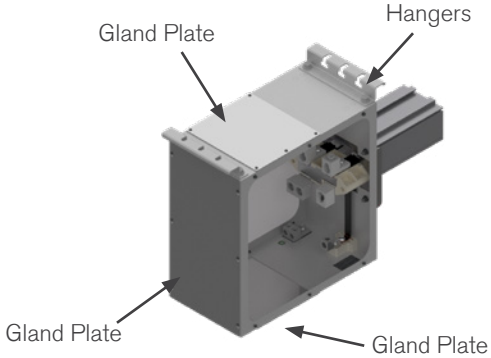


IR Windows
IR windows added to End Feeds offer:

- Enhanced electrical safety
- Increased compliance to NFPA 70E / CSA Z462
- Reduced PPE
- Closed-door infrared inspections
- Stable and consistent transmission over product life
- Largest field of view of any IR window
- Supports visual and infrared imaging for any IR camera



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.



END FEED UNITS: PRODUCT NUMBERS

U	F	250	T5	C	4	S	-	S	N	S	N
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Lug/Box Options	9. Meter Location	10. Accessories Package	11. Accessories Location

-	100	C	-	STD	0	-	M41	S	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. M40 Options	*18. System Config. and CT Type	

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

F	End Feed

3. Product Frame *(maximum amperage)*

250	250 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

5. Material *(busbar material)*

C	Copper

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 for mating purposes)*

S	Standard	**R**	Reversed

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

S	Standard lugs, Standard box	**R**	Bolt lugs, Large box
L	Standard lugs, Large box	**F**	Standard lugs, Fused box

9. Meter Location *(from the terminal, the side with removable lid)*

R	Right	**L**	Left
N	None (N/A)		

10. Accessories Package *(optional accessories for feed units)*

S	Standard	**R**	IR Window - Rectangular
C	IR Window - Circular	**A**	Angled Meter Lid
T	IR (rect.) + Angled Lid	**L**	IR (circ.) + Angled Lid
F	End Feed Hanger & Gland Plates	**B**	(C+F)
E	(T+F)	**J**	(R+F)
K	(A+F)	**M**	(L+F)

11. 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)*

0100	1 foot	*(For other lengths, consult the factory)*

13. Busway Access

C	Continuous

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
WHT	Paint Factory White	****RAL (please see page 4.80)**	

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
6	Tape Factory Red		

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

U	F	250	T5	C	4	S	-	S	N	S	N
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	10. Accessories Package	11. Accessories Location

-	100	C	-	STD	0	-	M41	S	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

***16. Meter Release** *(M40 AC)*

M41	WiFi, ≤415V Y, ≤240V Δ
M43	No WiFi, ≤415V Y, ≤240V Δ
M45	WiFi, 600V Y, 347V Δ
M47	No WiFi, 600V Y, 347V Δ

***16. Meter Release** *(M60 DC)*

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

***17. Meter Options** *(M40 AC)*

S	Standard (M60s also)	**F**	Featured (D+A)
D	Display (M60s also)	**E**	Enhanced (N+A)
N	(Measured) Neutral	**P**	Professional (D+N)
A	Audible Alarm	**U**	Ultimate (D+N+A)
B	Wired Temperature Monitor	**W**	(B+D+N)
V	(B+N)	**1**	(B+D+A)
C	(B+D)	**2**	(B+N+A)
M	(B+A)	**3**	(B+D+N+A)

***17. Meter Options** *(M60 DC)*

S	Standard (High Voltage)	**P**	Standard (48 VDC)
D	Display (High Voltage)	**Q**	Display (48 VDC)

M60 Meters support: High Voltage: 120 to 300VDC/Split Phase 120VDC (+/-60) to 380VDC (+/-180) OR Low Voltage: 48VDC

***18. System Configuration and CT Type** *(M40 AC)*

1	LLD - Standard, Milivolt	**K**	LLD - SC, 5A
2	LLY - Standard, Milivolt	**L**	LLY - SC, 5A
3	LNY - Standard, Milivolt	**M**	LNY - SC, 5A

line-line or line-neutral and wye or delta systems

***18. System Configuration and CT Type** *(M60 DC)*

1	Circuit 1 Only, Solid Core
2	Circuit 2 Only, Solid Core
3	Both Circuits, Solid Core

EXAMPLE
UF250T5C4R-LRLL-0100C-BLK0-M47S1 *= 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, M47 Meter, Standard Meter Options, LLD - Standard, Milivolt*

ABOVE FEED UNITS

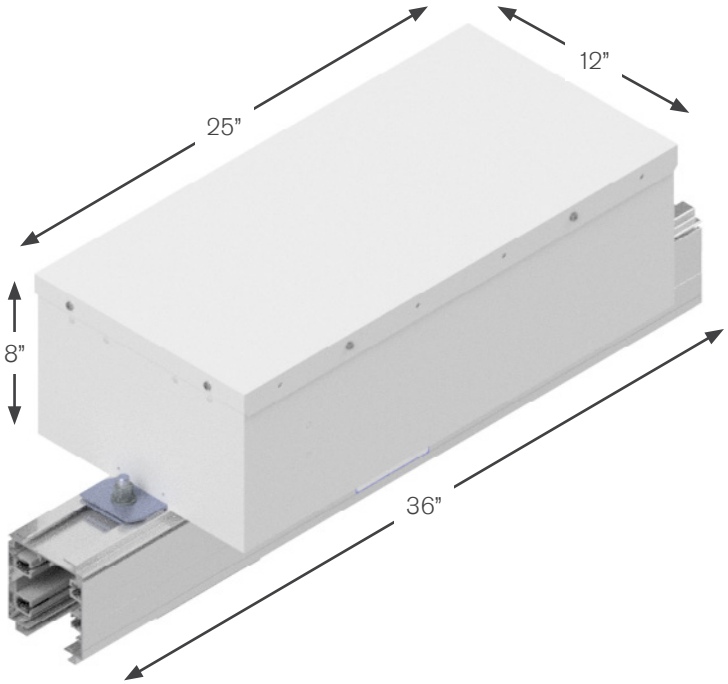
Product Description
The above feed power unit supplies power from the topside of the Busway. Factory assembled unit consists of a 25 x 12 x 8 inch steel junction box that is mounted on top of a 36 inch section of busway.

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

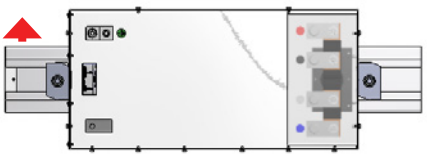
Above feed units can be placed at the end or anywhere along a busway run. Connections to adjoining busway sections are made by the standard means, requiring couplers and bus connectors which are sold separately.

Weight
45.5 lbs

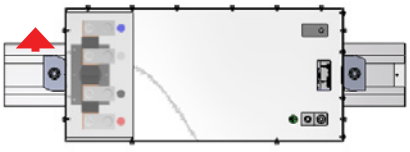
*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on **downloads.starlinepower.com/starline/**



Standard (S)



Reversed (R)



ABOVE FEED UNITS: PRODUCT NUMBERS

U	A	250	T5	C	4	S	-	D	N	S	N
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Lug/Box Options	9. Meter Location	10. Accessories Package	11. Accessories Location

-	0300	C	018	-	STD	0	-	M41	S	1	*Optional
	12. Straight Length	13. Busway Access	14. Feed Location		15. Paint Color	16. Tape Marking		*17. Meter Release	*18. M40 Options	*19. System Config. and CT Type	

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

A	Above Feed

3. Product Frame *(maximum amperage)*

250	250 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

5. Material *(busbar material)*

C	Copper

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 for mating purposes)*

S	Standard	**R**	Reversed

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

D	Double lugs, Standard box	**B**	Bolt lugs, Standard box

9. Meter Location *(from the terminal, the side with removable lid)*

R	Right	**L**	Left	**N**	None (N/A)

10. Accessories Package *(optional accessories for feed units)*

S	Standard

11. Accessories Location *(from the terminal, side with removable lid)*

N	None (N/A)	**R**	Right	**A**	Rear
L	Left	**T**	Top	**F**	Front

12. Straight Length *(length of section)*

0300	3 feet

13. Busway Access *(how plugs access the busway)*

C	Continuous

14. Feed Location *(location of the center of the top feed)*

018	18 inches	*(For other lengths, consult the factory)*

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

STD	Factory Mill Finish	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

16. 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
6	Tape Factory Red		

***17. Meter Release** *(M40 Series Meters)*

M41	WiFi, ≤415V Y, ≤240V Δ
M43	No WiFi, ≤415V Y, ≤240V Δ
M45	WiFi, 600V Y, 347V Δ
M47	No WiFi, 600V Y, 347V Δ

***18. M40 Options** *(choose from a 4.1" display, measured neutral, audible alarm and/or a temperature monitor)*

S	Standard (M60s also)	**F**	Featured (D+A)
D	Display (M60s also)	**E**	Enhanced (N+A)
N	(Measured) Neutral	**P**	Professional (D+N)
A	Audible Alarm	**U**	Ultimate (D+N+A)

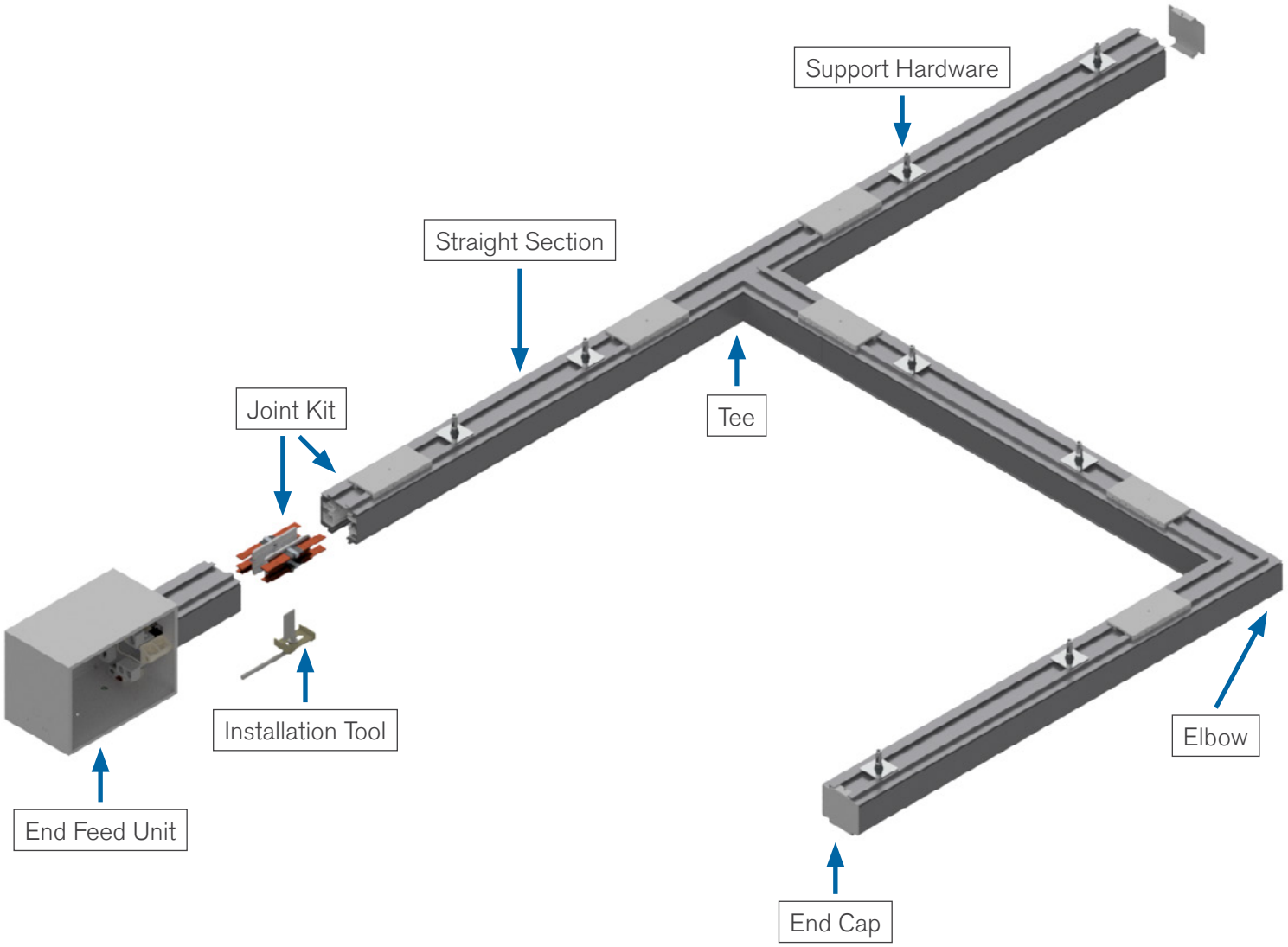
***19. System Configuration and CT Type** *(line-line or line-neutral and wye or delta systems)*

1	LLD - Standard, Milivolt	**K**	LLD - SC, 5A
2	LLY - Standard, Milivolt	**L**	LLY - SC, 5A
3	LNY - Standard, Milivolt	**M**	LNY - SC, 5A

EXAMPLE

UA250T5CFS-DLSN-0300C018-STD0-M41D2 *= US System, Above Feed, 250 amps, T5 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, M41 Meter, Display, LLY - Standard, Milivolt*

SYSTEM LAYOUT DRAWING

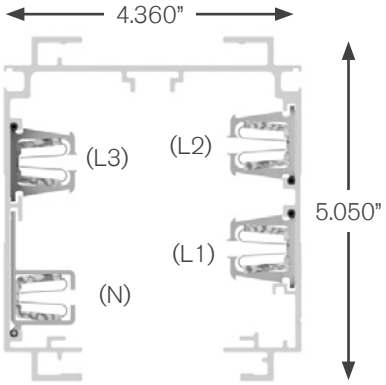


Plug-In Units
For further information on applicable T5 plug-in unit options, please visit the **Plug-In Units** section.

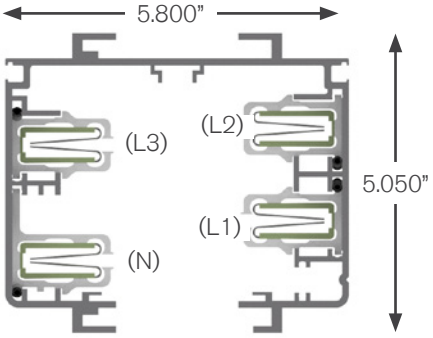
STRAIGHT SECTIONS

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, 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.

COMPACT US SYSTEM



US SYSTEM



Material
Extruded Aluminum

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

Length
10 ft, 20 ft; or custom lengths between 2 - 20 ft

US		Metric	
L1 or Phase A	black	L1 or Phase A	brown
L2 or Phase B	red / blue	L2 or Phase B	black / gray
L3 or Phase C	white	L3 or Phase C	blue
Neutral Ground	green/ black	Neutral Ground	green/ yellow

Voltage Drop
Distributed load

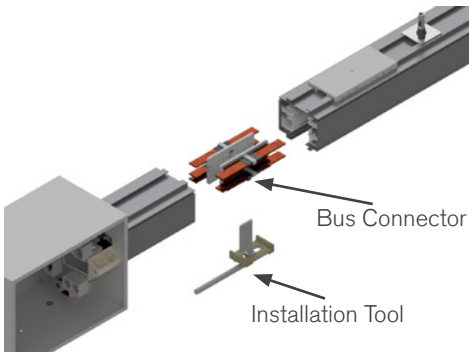
US System
Single Phase 1V per 37ft (.8PF)
Three Phase 1V per 65ft (.8PF)

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: 100 lbs
10 ft 4 pole w/ 200% N: 110 lbs
10 ft 4 pole w/ground & 200% N:120 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



STRAIGHT SECTIONS: PRODUCT NUMBERS

U	S	400	T5	C	4	S	-	0200	C
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Straight	9. Busway

-	STD	0
	10. Paint Color	11. Tape Marking

1. System *(standard of measure)*

U	US	**C**	Compact US

2. Product Type *(section component)*

S	Straight Section

3. Product Frame *(maximum amperage)*

400	400 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

5. Material *(busbar material)*

C	Copper

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 for mating purposes)*

S	Standard

8. Straight Length *(length of section)*

XXYY	XX=feet, YY=inches

9. Busway Access *(how plugs access the busway)*

C	Continuous

10. Paint Color *(allows painting of the busway housing)*

STD	Factory Mill Finish*	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

**Paint Factory Silver for Compact US systems*

11. 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
6	Tape Factory Red		

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*

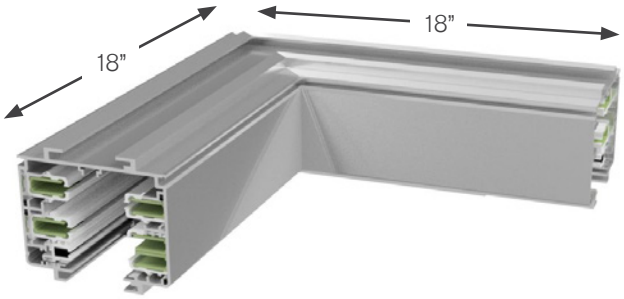
CS400K5CNS-0206C-P013 *= Compact US System, Straight Section, 400 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus 200% Neutral, Standard Polarization, 2 foot 6 inch Straight Length, Continuous Busway Access, Painted RAL 1001, Factory Black Tape Marking*

ELBOW SECTIONS

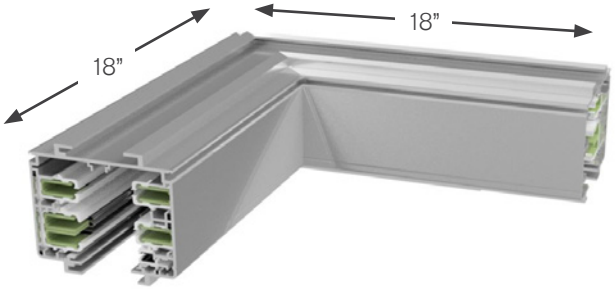
Product Description
An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

Connection Accessories
(Ordered Separately)
Joint Kits (**page 4.84**) are used to make mechanical and electrical connections to adjacent busway sections.

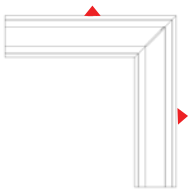
Weight
28 lbs US System
18 lbs Compact US System



External Elbow

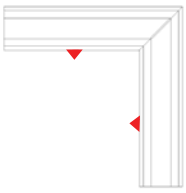


Internal Elbow



External Elbow

▲ = Polarizing Stripe



Internal Elbow

ELBOW SECTIONS: PRODUCT NUMBERS

U	E	400	T5	C	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 *(standard of measure)*

U	US	**C**	Compact US

2. Product Type *(section component)*

E	Elbow Section

3. Product Frame *(maximum amperage)*

400	400 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

5. Material *(busbar material)*

C	Copper

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 for mating purposes)*

S	Standard

8. Turning Direction *(direction of section polarizing stripe)*

IN	Internal	**EX**	External
HN	Seismic Internal	**GX**	Seismic External

9. Paint Color *(allows painting of the busway housing)*

STD	Factory Mill Finish	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

10. 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
6	Tape Factory Red		

EXAMPLES

UE400K5C4S-IN-PJ70 *= 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*

CE400T5CGS-EX-STD3 *= 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

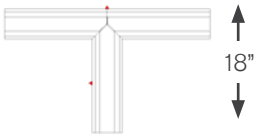
Product Description

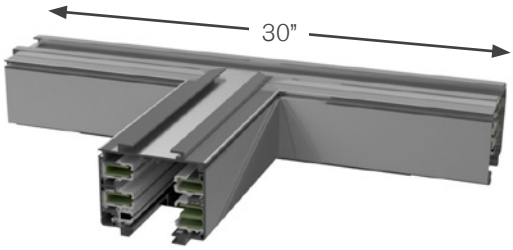
Tee sections are used for creating a 90 degree branch leg in a Busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. External tees are preferred. Tee sections are connected to adjacent Busway sections using an installation 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

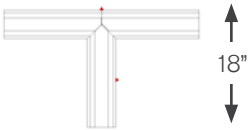
42 lbs US System

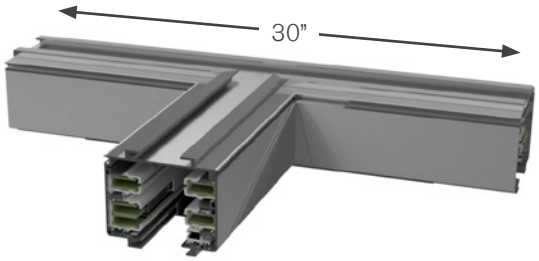
24 lbs Compact US System



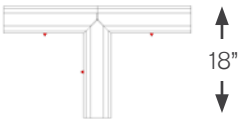


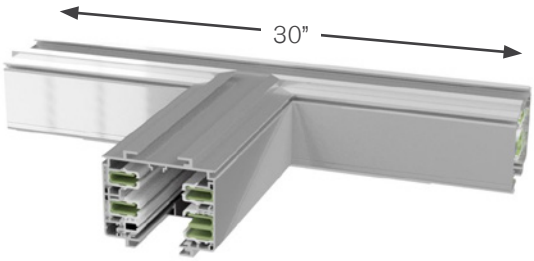
External-Left (EL)



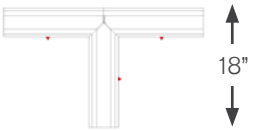


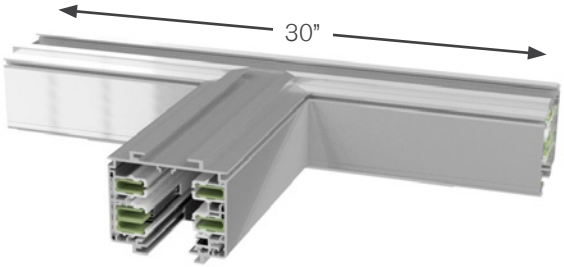
External-Right (ER)





Internal-Left (IL)





Internal-Right (IR)

▲ = Polarizing Strip

TEE SECTIONS: PRODUCT NUMBERS

U	T	400	T5	C	4	S	-	IR	-	STD	0
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction		9. Paint Color	10. Tape Marking

1. System *(standard of measure)*

U	US	**C**	Compact US

2. Product Type *(section component)*

T	Tee Section

3. Product Frame *(maximum amperage)*

400	400 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

5. Material *(busbar material)*

C	Copper

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 for mating purposes)*

S	Standard

8. Turning Direction *(direction of section polarizing stripe)*

IL	Internal-Left	**EL**	External-Left
IR	Internal-Right	**ER**	External-Right
HL	Seismic Internal-Left	**GL**	Seismic External-Left
HR	Seismic Internal-Right	**GR**	Seismic External-Right

9. Paint Color *(allows painting of the busway housing)*

STD	Factory Mill Finish	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

10. 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
6	Tape Factory Red		

EXAMPLES

UT400T5C4S-IR-RED0 *= 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*

CT400K5CFS-EL-STD0 *= 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*

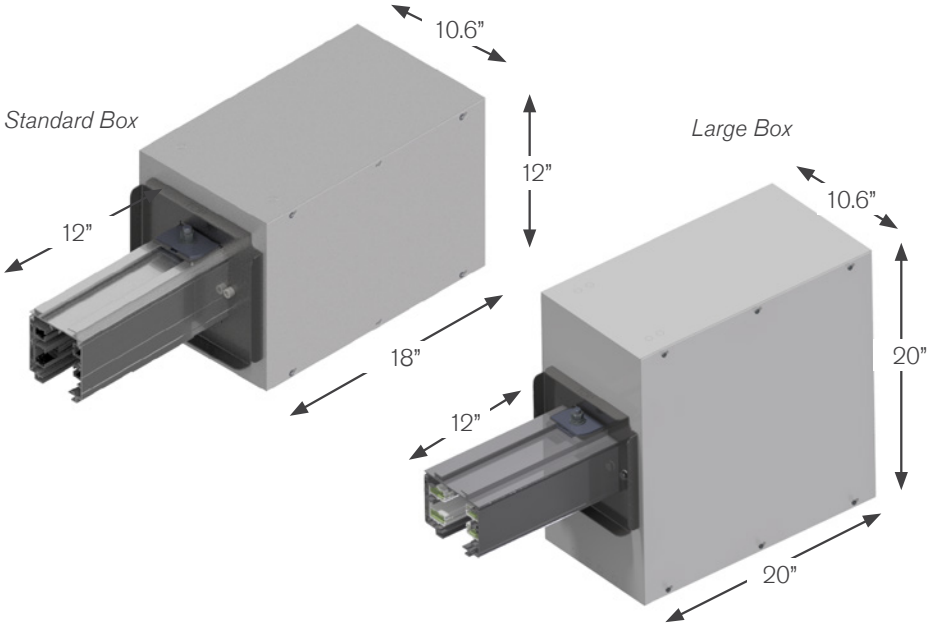
END FEED UNITS

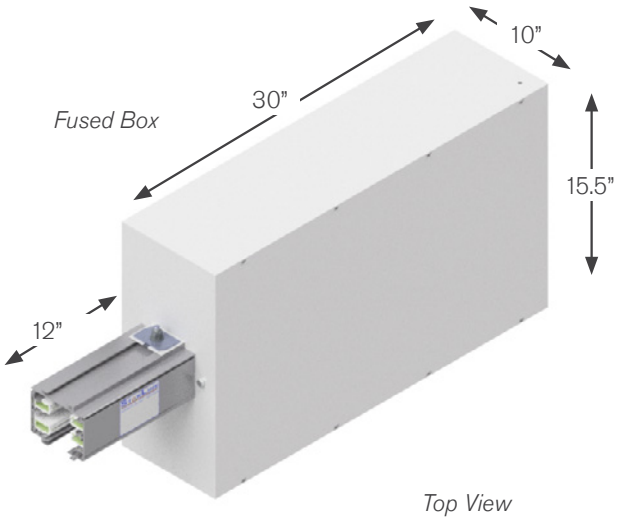
Product Description
End power feed units connect to the end of the busway. A standard size, factory assembled unit consists of a steel junction box, with removable sides, connected to a 1 foot section of busway. Certain assemblies include connection lugs and a ground lug for wires (2) 250MCM or up to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





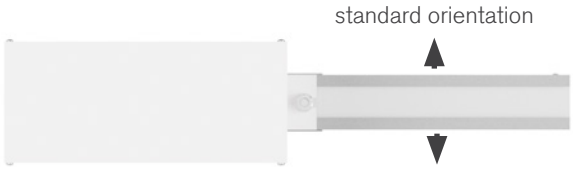
	Boxes		
Lugs	Standard	Large	Fused
Standard	S	L	F
Double			
Bolt	B	R	

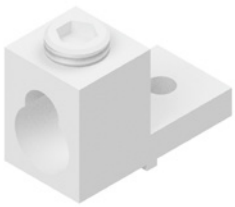
Box size and Lug options:

Refer to option 8. Lug/Box Options on **page 4.32** *End Feed Units: Product Numbers*

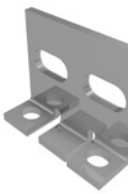
**Bolt options include bolt, washer, nut. Lug not included.*

Top View





Standard “S”



Compact Bolt “B/R”

Bolt “R”

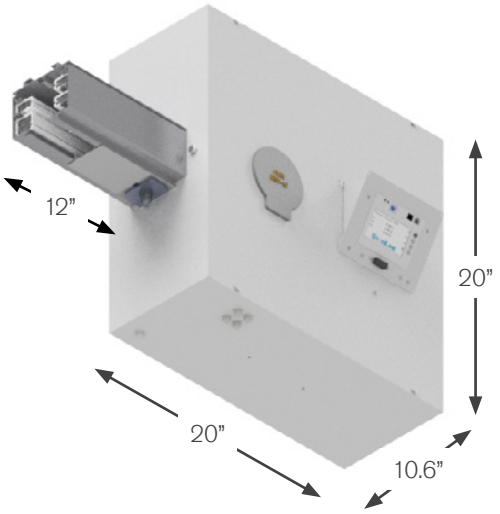
Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on **downloads.starlinepower.com/starline/**

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 M40 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 with Circular IR Window and M41D CPM with 4.3 inch Display and Wi-Fi on a 30° Angled Display

Box/Lugs Option	1 Meter or Accessory	1 Meter & 1 Accessory (opposite lids)	1 Meter & 1 Accessory (same lid)
(S) Standard Box, Standard Lugs	X	X	
(L) Large Box, Standard Lugs	X	X	X
(R) Large Box, Bolt Lugs	X	X	X
(B) Standard Box, Bolt Lugs	X	X	

AC End Feed Meter Options:

M41 WiFi, ≤415V Y, ≤240V Δ

M43 No WiFi, ≤415V Y, ≤240V Δ

M45 WiFi, 600V Y, 347V Δ

M47 No WiFi, 600V Y, 347V Δ

Y = wye, Δ = delta

DC End Feed Meter Options:

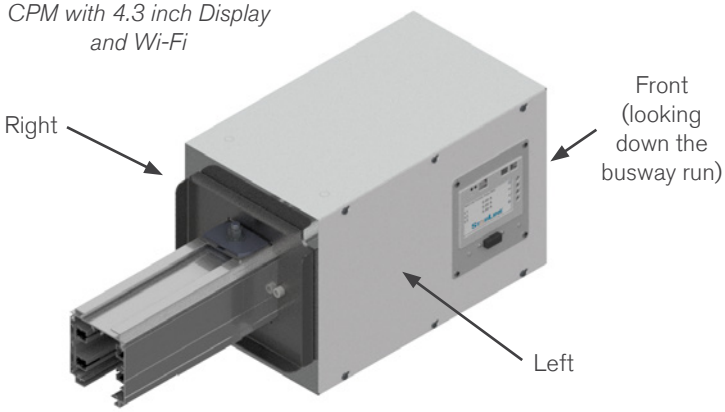
M61 Single Eth./WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

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

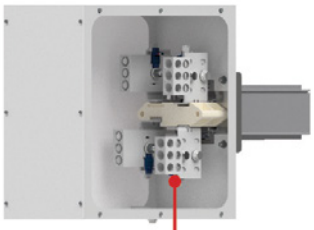
Standard Box with M41D CPM with 4.3 inch Display and Wi-Fi



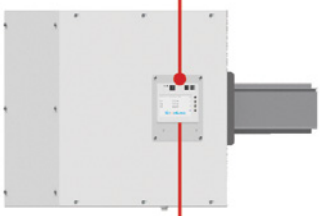
The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on* **page 4.32 *End Feed Units: Product Numbers)*

END FEED UNITS: ACCESSORIES

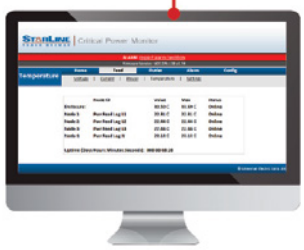
Temperature Monitor
Temperature sensor technology is now available with the Starline Critical Monitor (CPM) for End Feeds. This innovative technology is a first of its kind; making the monitoring and viewing of temperature data instantaneous.



Wired nodes are installed in the busway end feed, which measure the temperature of each mechanical or compression lug.



Each node communicates the temperature back to the Starline CPM. Both power and temperature information will now display on the meter's LCD screen.



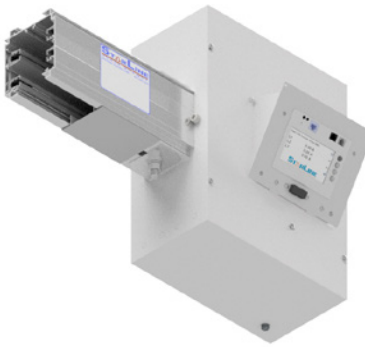
Temperature data also automatically transfer to the CPM's integral webpage—placing timely data at the end users fingertips.

(Refer to option 17. M40 Options on **page 4.33** *End Feed Units: Product Numbers)*

Angled Meter Lid
The angled meter End Feed lid is an accessory that delivers the flexibility to change the viewing angle for Display Meters in an End Feed.

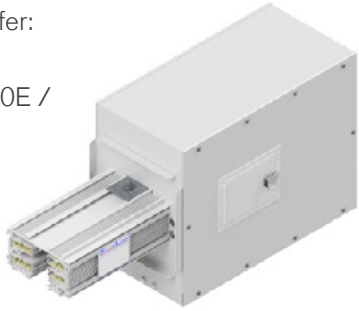
This enclosure allows for the meter to be mounted flush to the End Feed lid or presented in an extended position at 30° from vertical. This presents a more comfortable and easier viewing angle when looking up at an End Feed unit to read the LCD screen.

(Refer to option 10. Accessories Package on **page 4.32** *End Feed Units: Product Numbers)*

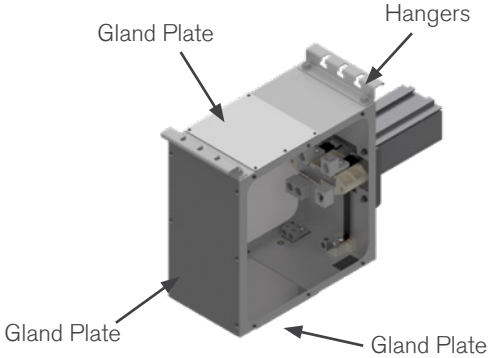


IR Windows
IR windows added to End Feeds offer:

- Enhanced electrical safety
- Increased compliance to NFPA 70E / CSA Z462
- Reduced PPE
- Closed-door infrared inspections
- Stable and consistent transmission over product life
- Largest field of view of any IR window
- Supports visual and infrared imaging for any IR camera



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.



END FEED UNITS: PRODUCT NUMBERS

U	F	400	T5	C	4	S	-	S	N	S	N
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Lug/Box Options	9. Meter Location	10. Accessories Package	11. Accessories Location

-	100	C	-	STD	0	-	M41	S	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. M40 Options	*18. System Config. and CT Type	

1. System *(standard of measure)*

U	US	**C**	Compact US

2. Product Type *(section component)*

F	End Feed

3. Product Frame *(maximum amperage)*

400	400 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

5. Material *(busbar material)*

C	Copper

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 for mating purposes)*

S	Standard	**R**	Reversed

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

S	Standard lugs, Standard box	**F**	Standard lugs, Fused box
L	Standard lugs, Large box	**R**	Bolt lugs, Large box
B	Bolt Lugs, Standard Box*		

**Compact US system only*

9. Meter Location *(from the terminal, the side with removable lid)*

R	Right	**L**	Left
N	None (N/A)		

10. Accessories Package *(optional accessories for feed units)*

S	Standard	**R**	IR Window - Rectangular
C	IR Window - Circular	**A**	Angled Meter Lid
T	IR (rect.) + Angled Lid	**L**	IR (circ.) + Angled Lid
F	End Feed Hanger & Gland Plates	**B**	(C+F)
E	(T+F)	**J**	(R+F)
K	(A+F)	**M**	(L+F)

11. 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)*

0100	1 foot	*(For other lengths, consult the factory)*

13. Busway Access

C	Continuous

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
WHT	Paint Factory White	****RAL (please see page 4.80)**	

15. Tape Marking *(colored tape on both sides of busway housing)*

0	None	**7**	Tape Factory Blue
3	Tape Factory Black	**8**	Tape Factory Green
4	Tape Factory White	**9**	Tape Factory Yellow
6	Tape Factory Red		

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

U	F	400	T5	C	4	S	-	S	N	S	N
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	10. Accessories Package	11. Accessories Location

-	100	C	-	STD	0	-	M41	S	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

***16. Meter Release** *(M40 AC)*

M41	WiFi, ≤415V Y, ≤240V Δ
M43	No WiFi, ≤415V Y, ≤240V Δ
M45	WiFi, 600V Y, 347V Δ
M47	No WiFi, 600V Y, 347V Δ

***16. Meter Release** *(M60 DC)*

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

***17. Meter Options** *(M40 AC)*

S	Standard (M60s also)	**F**	Featured (D+A)
D	Display (M60s also)	**E**	Enhanced (N+A)
N	(Measured) Neutral	**P**	Professional (D+N)
A	Audible Alarm	**U**	Ultimate (D+N+A)
B	Wired Temperature Monitor	**C**	(B+D)
V	(B+N)	**M**	(B+A)
W	(B+D+N)	**1**	(B+D+A)
2	(B+N+A)	**3**	(B+D+N+A)

***17. Meter Options** *(M60 DC)*

S	Standard (High Voltage)	**P**	Standard (48 VDC)
D	Display (High Voltage)	**Q**	Display (48 VDC)

M60 Meters support: High Voltage: 120 to 300VDC/Split Phase 120VDC (+/-60) to 380VDC (+/-180) OR Low Voltage: 48VDC

***18. System Configuration and CT Type** *(M40 AC)*

1	LLD - Standard, Milivolt	**K**	LLD - SC, 5A
2	LLY - Standard, Milivolt	**L**	LLY - SC, 5A
3	LNY - Standard, Milivolt	**M**	LNY - SC, 5A

line-line or line-neutral and wye or delta systems

***18. System Configuration and CT Type** *(M60 DC)*

1	Circuit 1 Only, Solid Core
2	Circuit 2 Only, Solid Core
3	Both Circuits, Solid Core

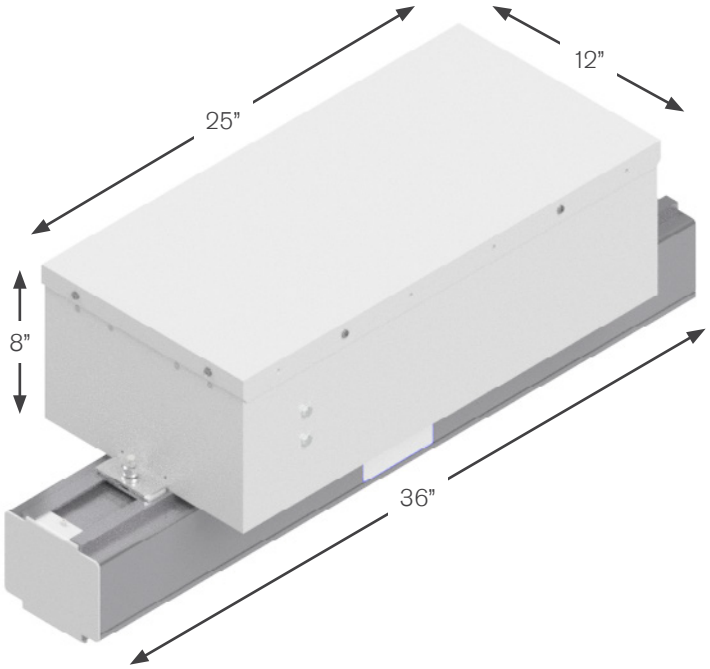
EXAMPLE
UF400T5C4R-LRLL-0100C-BLK0-M47S1 *= US System, End Feed, 400 amps, T5 System, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Large Box, Right Meter Location, Circular IR Window + Angled Meter Lid, Left Accessory Location, 1 foot Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking, M47 Meter, Standard Meter Options, LLD - Standard, Milivolt*

ABOVE FEED UNITS

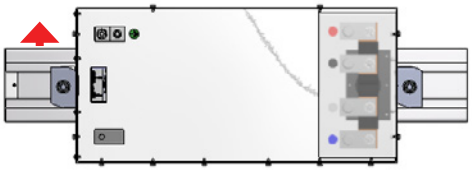
Product Description
The above feed power unit supplies power from the topside of the busway. Factory assembled unit consists of a 25 x 12 x 8 inch steel junction box mounted on top of a 36 inch section of busway.

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

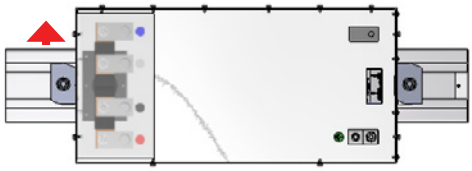
Above feed units can be placed at the end or anywhere along a busway run. Connections to adjoining busway sections are made by the standard means, requiring couplers and bus connectors which are sold separately.
*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on **downloads.starlinepower.com/starline/**



Standard (S)



Reversed (R)



ABOVE FEED UNITS: PRODUCT NUMBERS

U	A	400	T5	C	4	S	-	S	N	S	N
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Lug/Box Options	9. Meter Location	10. Accessories Package	11. Accessories Location

-	0300	C	018	-	STD	0	-	M41	S	1	*Optional
	12. Straight Length	13. Busway Access	14. Feed Location		15. Paint Color	16. Tape Marking		*17. Meter Release	*18. M40 Options	*19. System Config. and CT Type	

1. System *(standard of measure)*

U	US	**C**	Compact US

2. Product Type *(section component)*

A	Above Feed

3. Product Frame *(maximum amperage)*

250	250 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

5. Material *(busbar material)*

C	Copper

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 for mating purposes)*

S	Standard	**R**	Reversed

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

S	Standard lugs, Standard box

9. Meter Location *(from the terminal, the side with removable lid)*

R	Right	**L**	Left	**N**	None (N/A)

10. Accessories Package *(optional accessories for feed units)*

S	Standard

11. Accessories Location *(from the terminal, side with removable lid)*

N	None (N/A)	**R**	Right	**A**	Rear
L	Left	**T**	Top	**F**	Front

12. Straight Length *(length of section)*

0300	3 feet (for US)

13. Busway Access *(how plugs access the busway)*

C	Continuous

14. Feed Location *(location of the center of the top feed)*

018	18 inches	*(For other lengths, consult the factory)*

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

STD	Factory Mill Finish	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

16. Tape Marking *(colored tape on both sides of busway housing)*

0	None	**7**	Tape Factory Blue
3	Tape Factory Black	**8**	Tape Factory Green
4	Tape Factory White	**9**	Tape Factory Yellow
6	Tape Factory Red		

***17. Meter Release** *(M40 Series Meters)*

M41	WiFi, ≤415V Y, ≤240V Δ
M43	No WiFi, ≤415V Y, ≤240V Δ
M45	WiFi, 600V Y, 347V Δ
M47	No WiFi, 600V Y, 347V Δ

***18. M40 Options** *(choose from a 4.1" display, measured neutral, audible alarm and/or a temperature monitor)*

S	Standard (M60s also)	**F**	Featured (D+A)
D	Display (M60s also)	**E**	Enhanced (N+A)
N	(Measured) Neutral	**P**	Professional (D+N)
A	Audible Alarm	**U**	Ultimate (D+N+A)

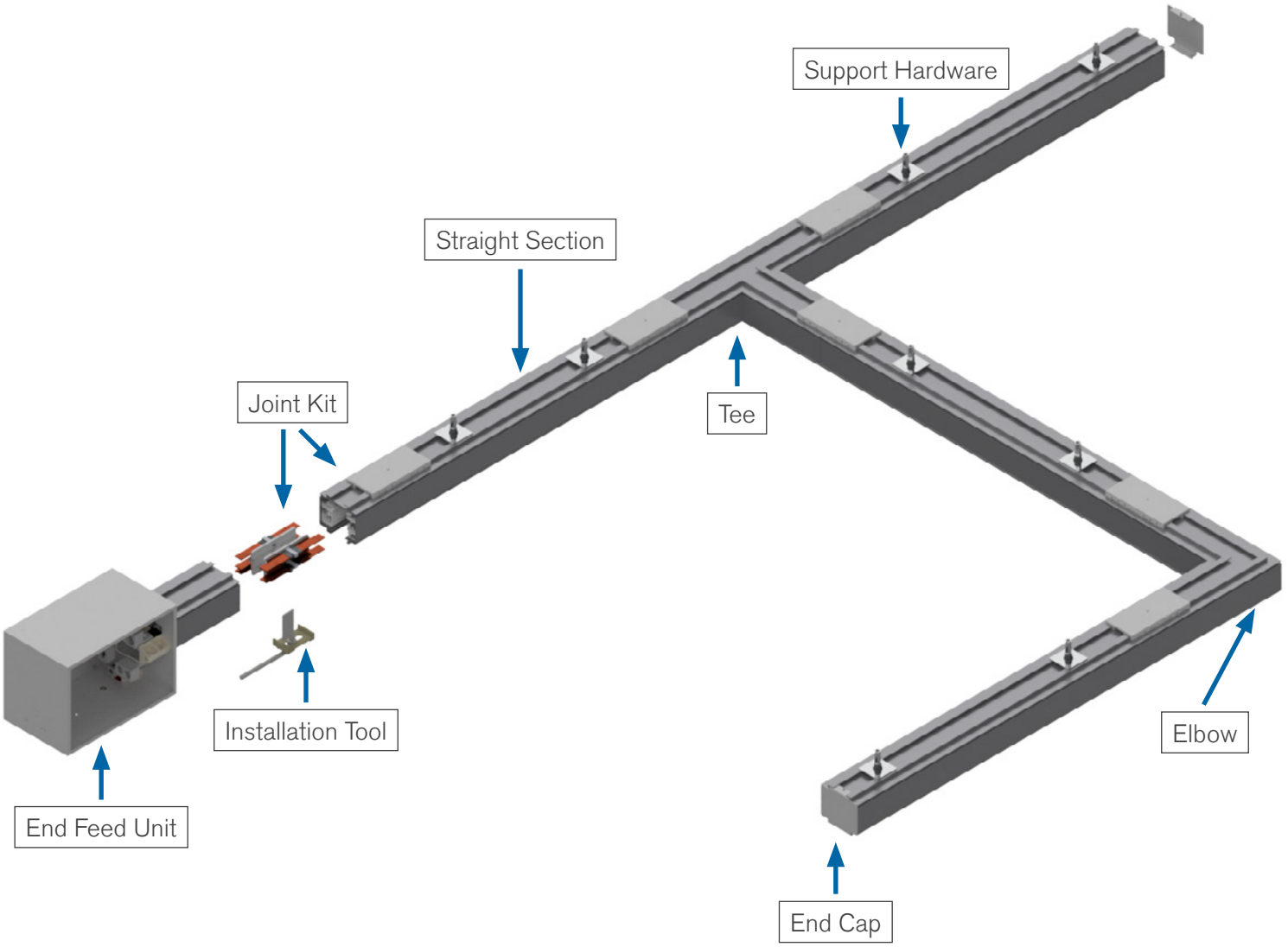
***19. System Configuration and CT Type** *(line-line or line-neutral and wye or delta systems)*

1	LLD - Standard, Milivolt	**K**	LLD - SC, 5A
2	LLY - Standard, Milivolt	**L**	LLY - SC, 5A
3	LNY - Standard, Milivolt	**M**	LNY - SC, 5A

EXAMPLE

UA400K5CFS-SRSN-0300C018-STD0-M41DM *= 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, M41 Meter, Display, LNY - SC, 5A*

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.

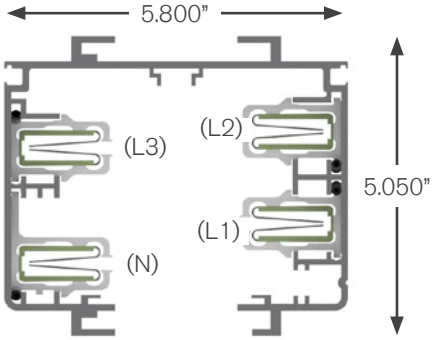
Material
Extruded Aluminum

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

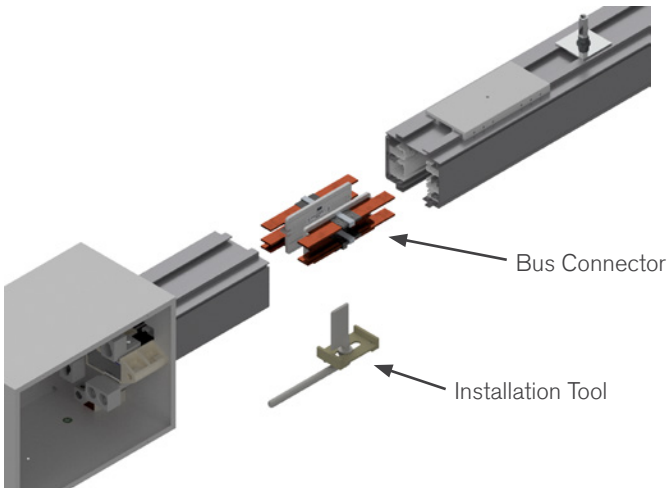
Length
10 ft, 20 ft; or custom lengths between 2 - 20 ft

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			Metric		
L1 or Phase A		black	L1 or Phase A		brown
L2 or Phase B		red	L2 or Phase B		black
		blue			gray
L3 or Phase C		white	L3 or Phase C		blue
Neutral Ground		green/ black	Neutral Ground		green/ yellow



STRAIGHT SECTIONS: PRODUCT NUMBERS

U	S	600	T5	C	4	S	-	0200	C
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Straight	9. Busway

-	STD	0
	10. Paint Color	11. Tape Marking

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

S	Straight Section

3. Product Frame *(maximum amperage)*

600	600 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

5. Material *(busbar material)*

C	Copper

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

9. Busway Access *(how plugs access the busway)*

C	Continuous

10. Paint Color *(allows painting of the busway housing)*

STD	Paint Factory Silver	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

11. Tape Marking *(colored tape on both sides of busway housing)*

0	None	**7**	Tape Factory Blue
3	Tape Factory Black	**8**	Tape Factory Green
4	Tape Factory White	**9**	Tape Factory Yellow
6	Tape Factory Red		

EXAMPLES

US600T5C4S-0500C-STD0 *= 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*

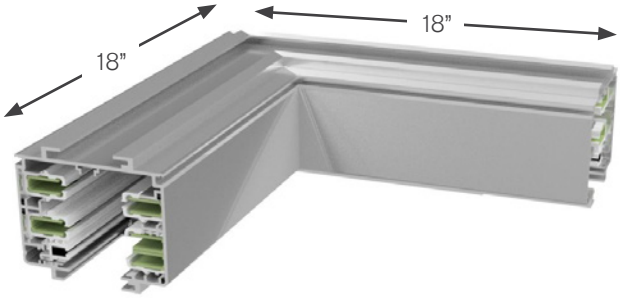
US600K5CGS-0206C-P013 *= US System, Straight Section, 600 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Connector, Standard Polarization, 2 foot 6 inch Straight Length, Continuous Busway Access, Painted RAL 1001, Factory Black Tape Marking*

ELBOW SECTIONS

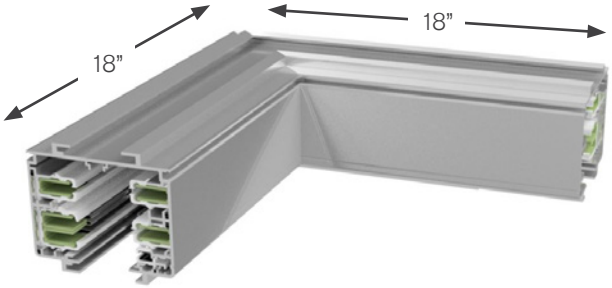
Product Description
An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

Connection Accessories
(Ordered Separately)
A Joint Kit (**page 4.84**) is used to make mechanical and electrical connections to adjacent busway sections.

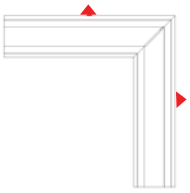
Weight
32 lbs



External Elbow

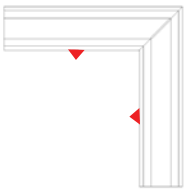


Internal Elbow



External Elbow

▲ = Polarizing Strip



Internal Elbow

ELBOW SECTIONS: PRODUCT NUMBERS

U	E	600	T5	C	4	S	-	IN	-	STD	0
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction		9. Paint Color	10. Tape Marking

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

E	Elbow Section

3. Product Frame *(maximum amperage)*

600	600 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

5. Material *(busbar material)*

C	Copper

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. Turning Direction *(direction of section polarizing stripe)*

IN	Internal	**EX**	External

9. Paint Color *(allows painting of the busway housing)*

STD	Paint Factory Silver	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

10. Tape Marking *(colored tape on both sides of busway housing)*

0	None	**7**	Tape Factory Blue
3	Tape Factory Black	**8**	Tape Factory Green
4	Tape Factory White	**9**	Tape Factory Yellow
6	Tape Factory Red		

EXAMPLES

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*

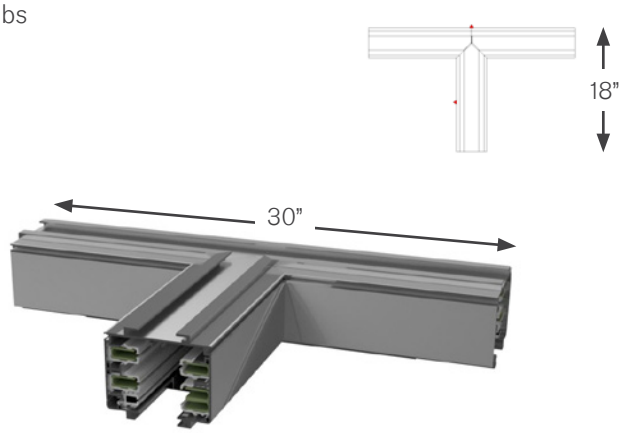
UE600T5CGS-EX-BLK0 *= US System, Elbow Section, 600 amps, T5 System, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External Turning Direction, Painted Factory Black, No Tape Marking*

TEE SECTIONS

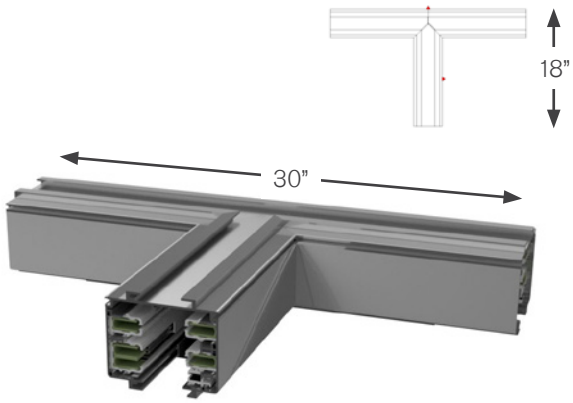
Product Description
Tee sections are used for creating a 90 degree branch leg in a busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. External tees are preferred. Tee sections are connected to adjacent busway 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.

▲ = Polarizing Strip

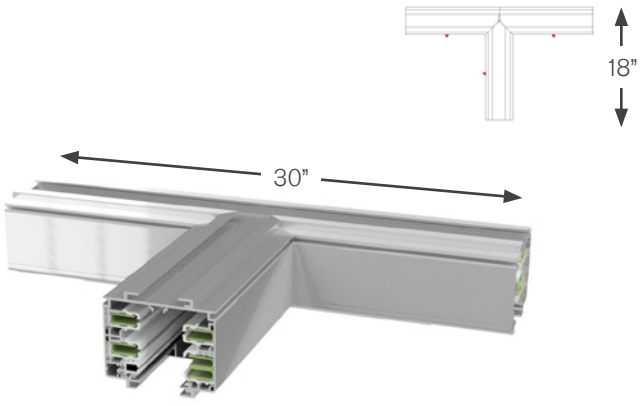
Weight
47.5 lbs



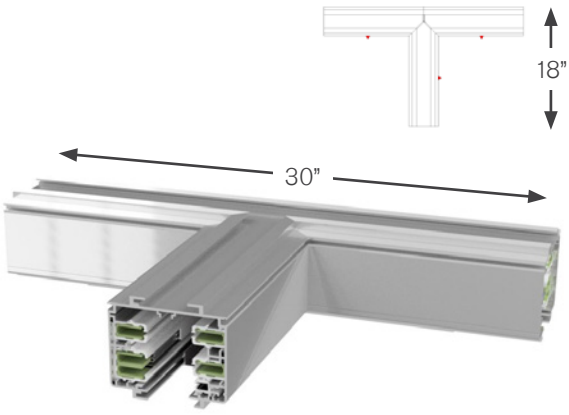
External-Left (EL)



External-Right (ER)



Internal-Left (IL)



Internal-Right (IR)

TEE SECTIONS: PRODUCT NUMBERS

U	T	600	T5	C	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	0
	9. Paint Color	10. Tape Marking

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

T	Tee Section

3. Product Frame *(maximum amperage)*

600	600 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

5. Material *(busbar material)*

C	Copper

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. Turning Direction *(direction of section polarizing stripe)*

IL	Internal-Left	**EL**	External-Left
IR	Internal-Right	**ER**	External-Right

9. Paint Color *(allows painting of the busway housing)*

STD	Paint Factory Silver	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

10. Tape Marking *(colored tape on both sides of busway housing)*

0	None	**7**	Tape Factory Blue
3	Tape Factory Black	**8**	Tape Factory Green
4	Tape Factory White	**9**	Tape Factory Yellow
6	Tape Factory Red		

EXAMPLES

UT600T5C4S-IR-RED0 *= 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*

UT600K5CGS-EL-STD0 *= 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*

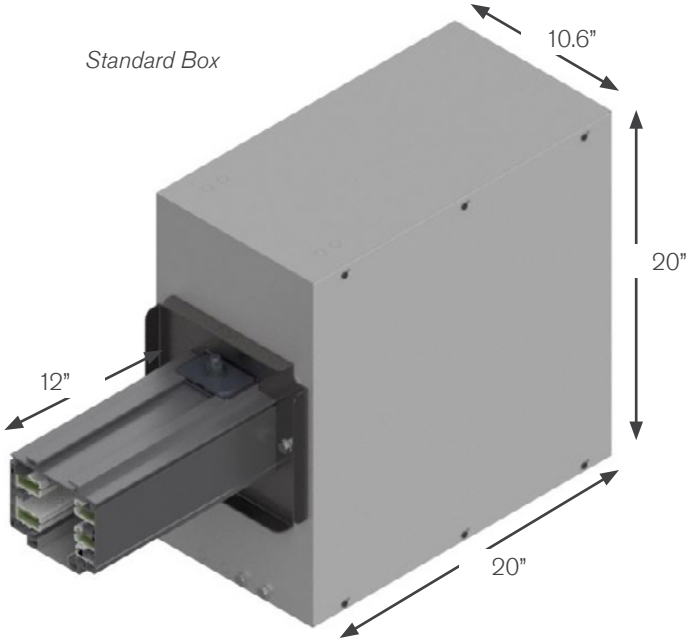
END FEED UNITS

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.

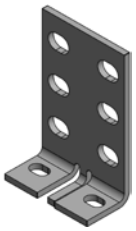
Weight (for standard size end feed)
52 lbs



	Standard Boxes		
Lugs	Standard	Large	Fused
Standard	S		
Double			
Bolt*	B		

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


Standard “S”


Bolt “B”

*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/***

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 M40 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.

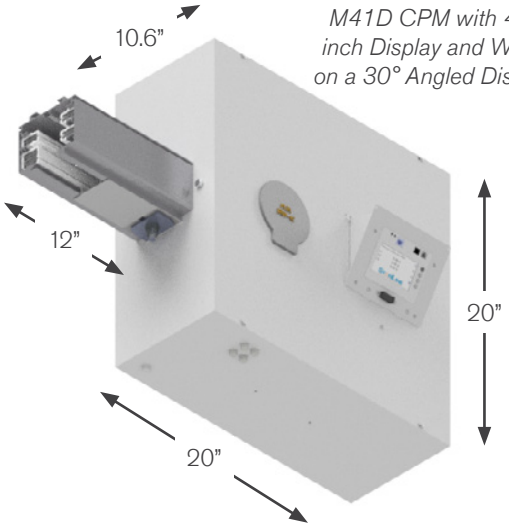
AC End Feed Meter Options

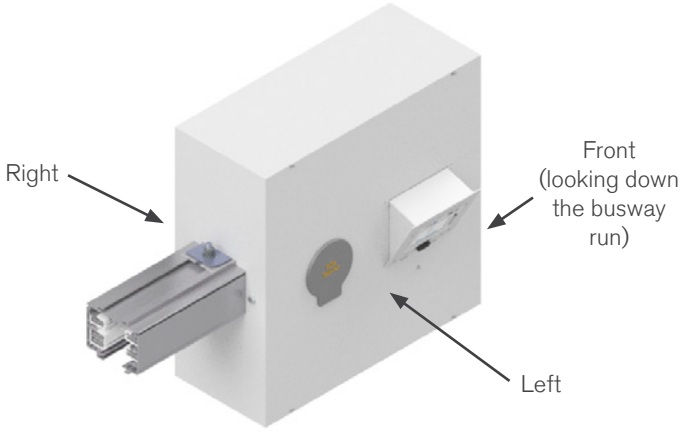
M41	WiFi, ≤415V Y, ≤240V Δ
M43	No WiFi, ≤415V Y, ≤240V Δ
M45	WiFi, 600V Y, 347V Δ
M47	No WiFi, 600V Y, 347V Δ
	Y = wye, Δ = delta

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

Standard Box with Circular IR Window and M41D CPM with 4.3 inch Display and Wi-Fi on a 30° Angled Display

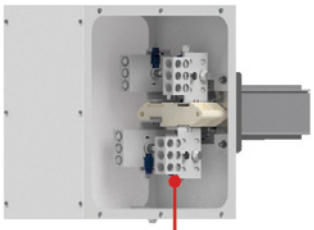




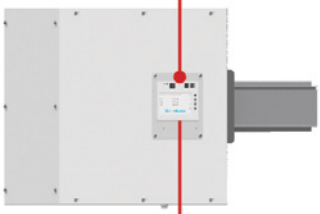
The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on* **page 4.46 *End Feed Units: Product Numbers)*

END FEED UNITS: ACCESSORIES

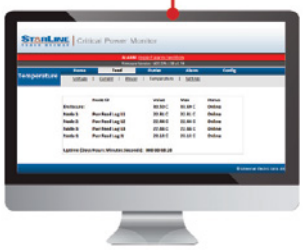
Temperature Monitor
Temperature sensor technology is now available with the Starline Critical Monitor (CPM) for End Feeds. This innovative technology is a first of its kind; making the monitoring and viewing of temperature data instantaneous.



Wired nodes are installed in the busway end feed, which measure the temperature of each mechanical or compression lug.



Each node communicates the temperature back to the Starline CPM. Both power and temperature information will now display on the meter's LCD screen.



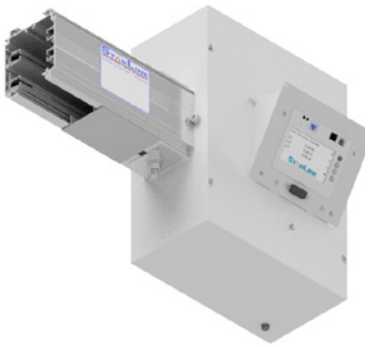
Temperature data also automatically transfer to the CPM's integral webpage—placing timely data at the end users fingertips.

(Refer to option 17. M40 Options on **page 4.47** *End Feed Units: Product Numbers)*

Angled Meter Lid
The angled meter End Feed lid is an accessory that delivers the flexibility to change the viewing angle for Display Meters in an End Feed.

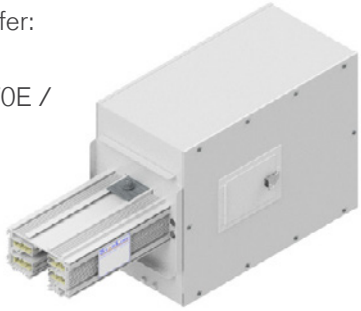
This enclosure allows for the meter to be mounted flush to the End Feed lid or presented in an extended position at 30° from vertical. This presents a more comfortable and easier viewing angle when looking up at an End Feed unit to read the LCD screen.

(Refer to option 10. Accessories Package on **page 4.46** *End Feed Units: Product Numbers)*

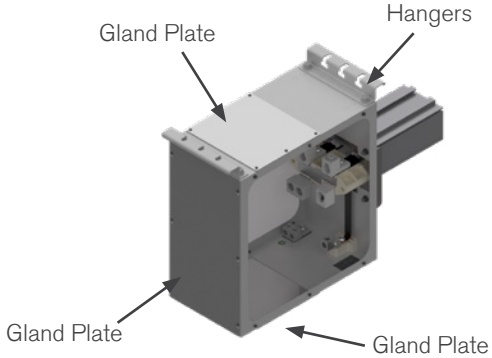


IR Windows
IR windows added to End Feeds offer:

- Enhanced electrical safety
- Increased compliance to NFPA 70E / CSA Z462
- Reduced PPE
- Closed-door infrared inspections
- Stable and consistent transmission over product life
- Largest field of view of any IR window
- Supports visual and infrared imaging for any IR camera



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.



END FEED UNITS: PRODUCT NUMBERS

U	F	600	T5	C	4	S	-	S	N	S	N
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Lug/Box Options	9. Meter Location	10. Accessories Package	11. Accessories Location

-	100	C	-	STD	0	-	M41	S	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. M40 Options	*18. System Config. and CT Type	

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

F	End Feed

3. Product Frame *(maximum amperage)*

600	600 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

5. Material *(busbar material)*

C	Copper

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

9. Meter Location *(from the terminal, side with removable lid)*

S	Standard	**R**	Reversed

10. Accessories Package *(optional accessories for feed units)*

S	Standard	**R**	IR Window - Rectangular
C	IR Window - Circular	**A**	Angled Meter Lid
T	IR (rect.) + Angled Lid	**L**	IR (circ.) + Angled Lid
F	End Feed Hanger & Gland Plates	**B**	(C+F)
E	(T+F)	**J**	(R+F)
K	(A+F)	**M**	(L+F)

11. 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)*

100	1 foot	*(For other lengths, consult the factory)*

13. Busway Access

C	Continuous

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
WHT	Paint Factory White	****RAL (please see page 4.80)**	

15. Tape Marking *(colored tape on both sides of busway housing)*

0	None	**7**	Tape Factory Blue
3	Tape Factory Black	**8**	Tape Factory Green
4	Tape Factory White	**9**	Tape Factory Yellow
6	Tape Factory Red		

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

U	F	600	T5	C	4	S	-	S	N	S	N
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	10. Accessories Package	11. Accessories Location

-	100	C	-	STD	0	-	M41	S	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

***16. Meter Release** *(M40 AC)*

M41	WiFi, ≤415V Y, ≤240V Δ
M43	No WiFi, ≤415V Y, ≤240V Δ
M45	WiFi, 600V Y, 347V Δ
M47	No WiFi, 600V Y, 347V Δ

***16. Meter Release** *(M60 DC)*

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

***17. Meter Options** *(M40 AC)*

S	Standard (M60s also)	**F**	Featured (D+A)
D	Display (M60s also)	**E**	Enhanced (N+A)
N	(Measured) Neutral	**P**	Professional (D+N)
A	Audible Alarm	**U**	Ultimate (D+N+A)
B	Temperature Monitor	**W**	(B+D+N)
V	(B+N)	**1**	(B+D+A)
C	(B+D)	**2**	(B+N+A)
M	(B+A)	**3**	(B+D+N+A)

***17. Meter Options** *(M60 DC)*

S	Standard (High Voltage)	**P**	Standard (48 VDC)
D	Display (High Voltage)	**Q**	Display (48 VDC)

M60 Meters support: High Voltage: 120 to 300VDC/Split Phase 120VDC (+/-60) to 380VDC (+/-180) OR Low Voltage: 48VDC

***18. System Configuration and CT Type** *(M40 AC)*

1	LLD - Standard, Milivolt	**K**	LLD - SC, 5A
2	LLY - Standard, Milivolt	**L**	LLY - SC, 5A
3	LNY - Standard, Milivolt	**M**	LNY - SC, 5A

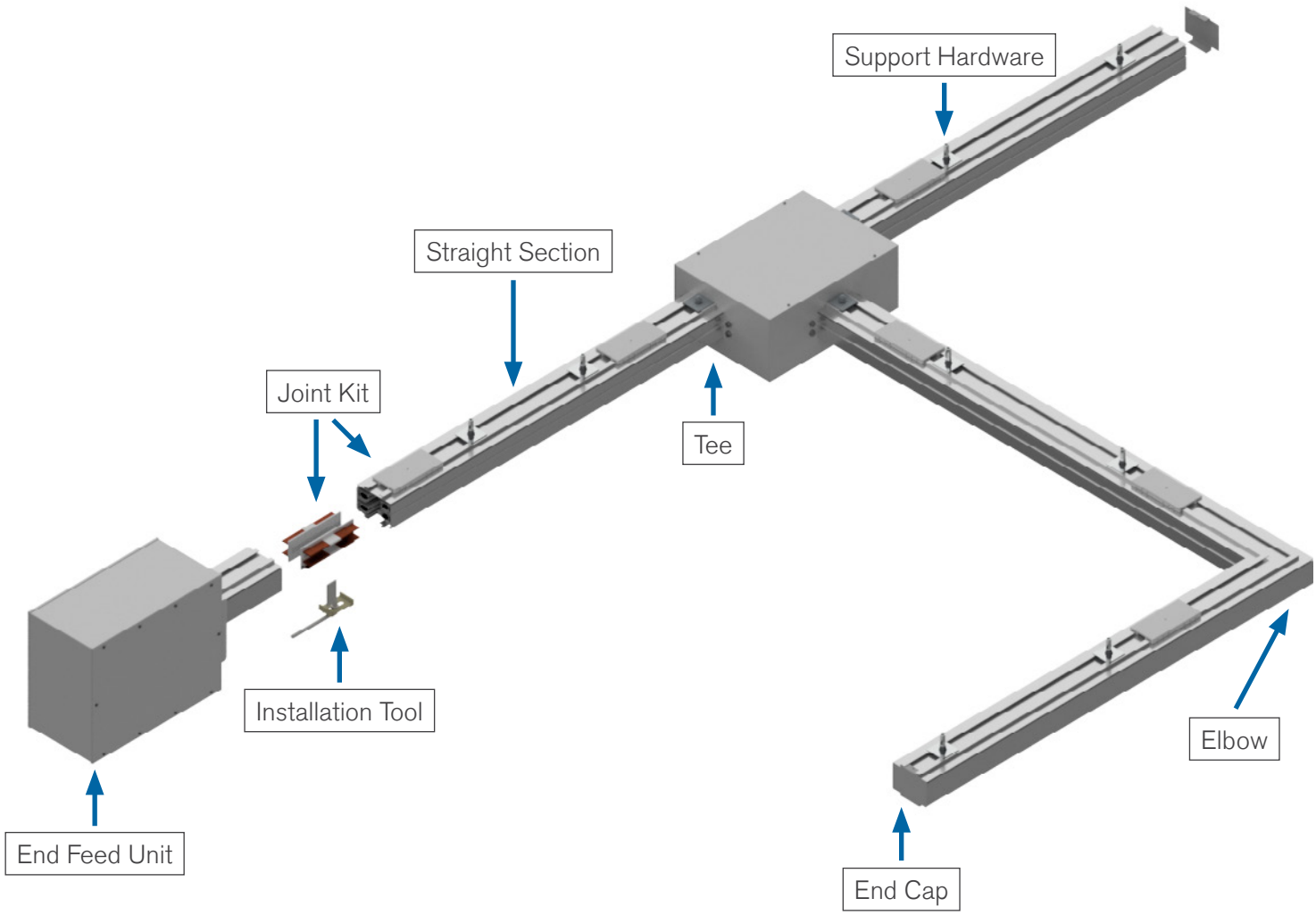
line-line or line-neutral and wye or delta systems

***18. System Configuration and CT Type** *(M60 DC)*

1	Circuit 1 Only, Solid Core
2	Circuit 2 Only, Solid Core
3	Both Circuits, Solid Core

EXAMPLE
UF600T5C4R-SLSN-0102P-BLK0-M47S1 *= 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, M47 Meter, Standard Meter Options, LLD - Standard, Milivolt*

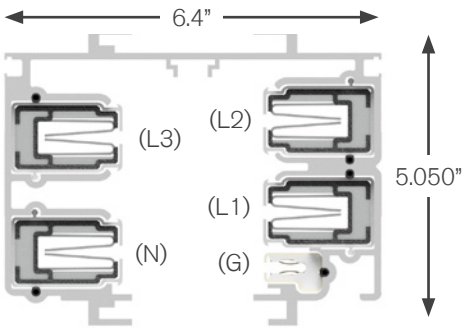
SYSTEM LAYOUT DRAWING



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 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 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

Ratings
100% Ground Path
800 Amps, 600 Volt

Length
5 ft, Max 10 ft or custom lengths between 2 - 10 ft

Voltage Drop
Distributed load
Single Phase 1V per 15 ft (.8PF)
Three Phase 1V per 25 ft (.8PF)

Weight
10 ft 4 pole w/ ground: 152 lbs- Hybrid
10 ft 4 pole w/ ground: 215 lbs- Copper

US		Metric	
L1 or Phase A	black	L1 or Phase A	brown
L2 or Phase B	red	L2 or Phase B	black
	blue		gray
L3 or Phase C	white	L3 or Phase C	blue
Neutral Ground	green/ black	Neutral Ground	green/ yellow

STRAIGHT SECTIONS: PRODUCT NUMBERS

U	S	800	T5	C	4	S	-	0200	C	-	STD	0
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Straight	9. Busway		10. Paint Color	11. Tape Marking

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

S	Straight Section

3. Product Frame *(maximum amperage)*

800	800 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

5. Material *(busbar material)*

C	Copper	**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

9. Busway Access *(how plugs access the busway)*

C	Continuous

10. Paint Color *(allows painting of the busway housing)*

STD	Factory Mill Finish	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

11. Tape Marking *(colored tape on both sides of busway housing)*

0	None	**7**	Tape Factory Blue
3	Tape Factory Black	**8**	Tape Factory Green
4	Tape Factory White	**9**	Tape Factory Yellow
6	Tape Factory Red		

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*

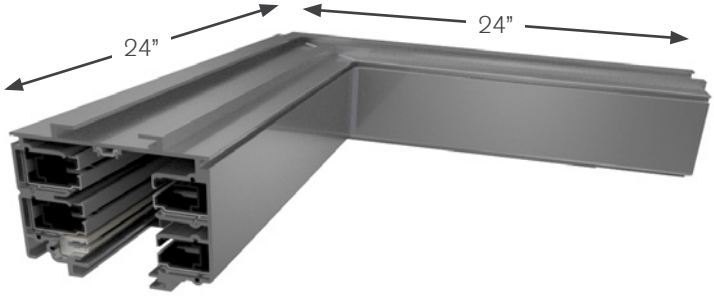
US800K5CGS-0206C-P013 *= US System, Straight Section, 800 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Netural plus Internal Ground Connector, Standard Polarization, 2 foot 6 inch Straight Length, Painted RAL 1001, Factory Black Tape Marking*

ELBOW SECTIONS

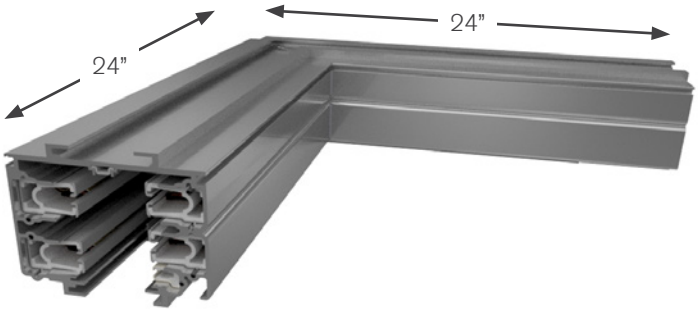
Product Description
An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

Connection Accessories
(Ordered Separately)
A Joint Kit (**page 4.84**) is used to make mechanical and electrical connections to adjacent busway sections.

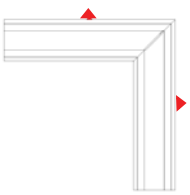
Weight
51 lbs - Hybrid



External Elbow

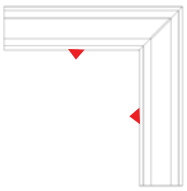


Internal Elbow



External Elbow

▲ = Polarizing Strip



Internal Elbow

ELBOW SECTIONS: PRODUCT NUMBERS

U	E	800	T5	C	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 *(standard of measure)*

U	US

2. Product Type *(section component)*

E	Elbow Section

3. Product Frame *(maximum amperage)*

800	800 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

5. Material *(busbar material)*

C	Copper	**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. Turning Direction *(direction of section polarizing stripe)*

IN	Internal	**EX**	External

9. Paint Color *(allows painting of the busway housing)*

STD	Factory Mill Finish	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

10. Tape Marking *(colored tape on both sides of busway housing)*

0	None	**7**	Tape Factory Blue
3	Tape Factory Black	**8**	Tape Factory Green
4	Tape Factory White	**9**	Tape Factory Yellow
6	Tape Factory Red		

EXAMPLES

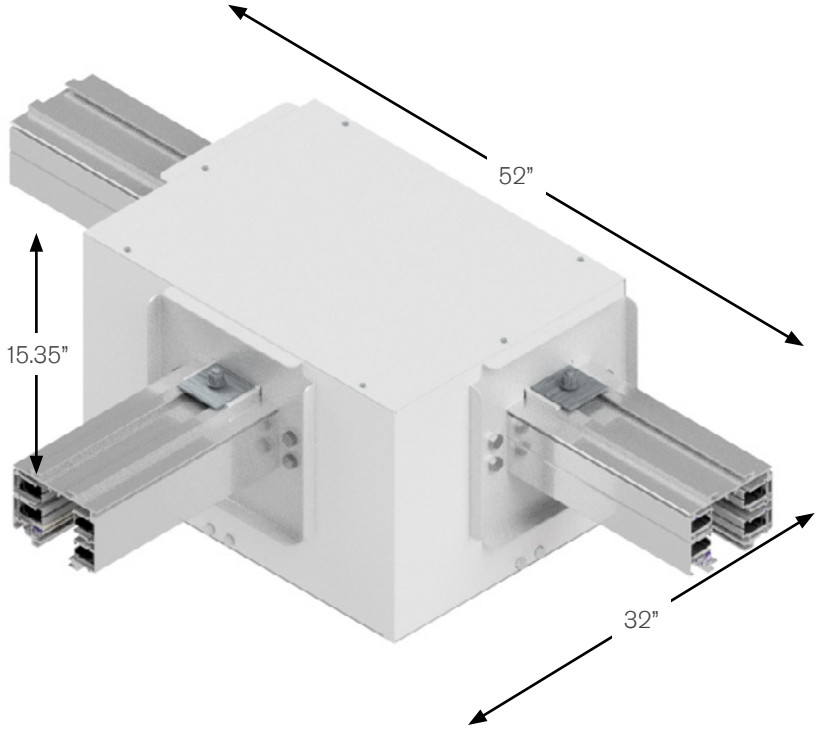
UE800K5C4S-IN-STD7 *= US System, Elbow Section, 800 amps, T5 System-K5 Limiting Strip, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Factory Mill Finish, Factory Blue Tape Marking*

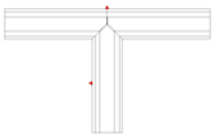
UE800T5CGS-EX-BLK0 *= US System, Elbow Section, 800 amps, T5 System, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External Turning Direction, Painted Factory Black, No Tape Marking*

TEE SECTIONS

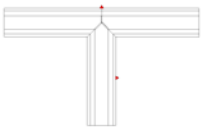
Product Description
Tee sections are used for creating a 90 degree branch leg in a busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. External tees are preferred. Tee sections are connected to adjacent busway 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



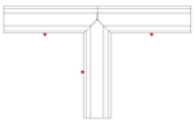


External-Left (EL)

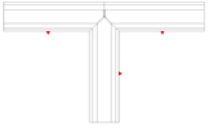


External-Right (ER)

▲ = Polarizing Strip



Internal-Left (IL)



Internal-Right (IR)

TEE SECTIONS: PRODUCT NUMBERS

U	T	800	T5	C	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	0
	9. Paint Color	10. Tape Marking

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

T	Tee Section

3. Product Frame *(maximum amperage)*

800	800 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

5. Material *(busbar material)*

C	Copper	**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. Turning Direction *(direction of section polarizing stripe)*

IL	Internal-Left	**EL**	External-Left
IR	Internal-Right	**ER**	External-Right

9. Paint Color *(allows painting of the busway housing)*

STD	Factory Mill Finish	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

10. Tape Marking *(colored tape on both sides of busway housing)*

0	None	**7**	Tape Factory Blue
3	Tape Factory Black	**8**	Tape Factory Green
4	Tape Factory White	**9**	Tape Factory Yellow
6	Tape Factory Red		

EXAMPLES

UT800T5H4S-IR-RED0 *= 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*

UT800K5HGS-EL-STD0 *= 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
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.

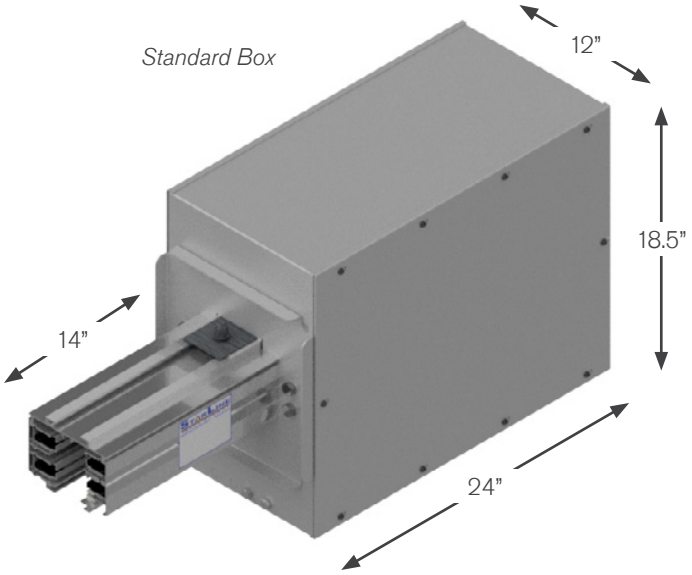
Weight
84.5 lbs

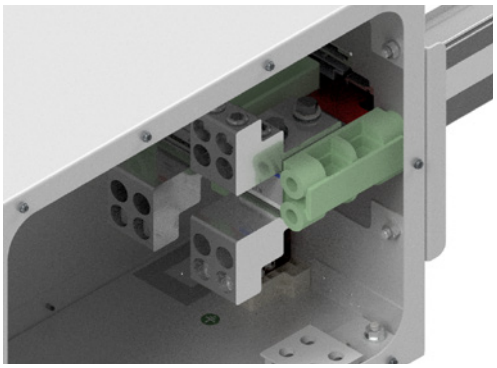
	Boxes		
Lugs	Standard	Large	Fused
Standard	S		
Double	D		
Bolt*	B		
Quad*	Q		

Box size and Lug options:
Refer to option 8. Lug/Box Options on **page 4.58** *End Feed Units: Product Numbers*

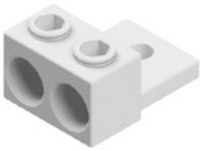
**Bolt options include bolt, washer, nut. Lug not included.*

Standard Box





Double Lugs



Standard "S"

Double "D"

Quad "Q"

Bolt "B"

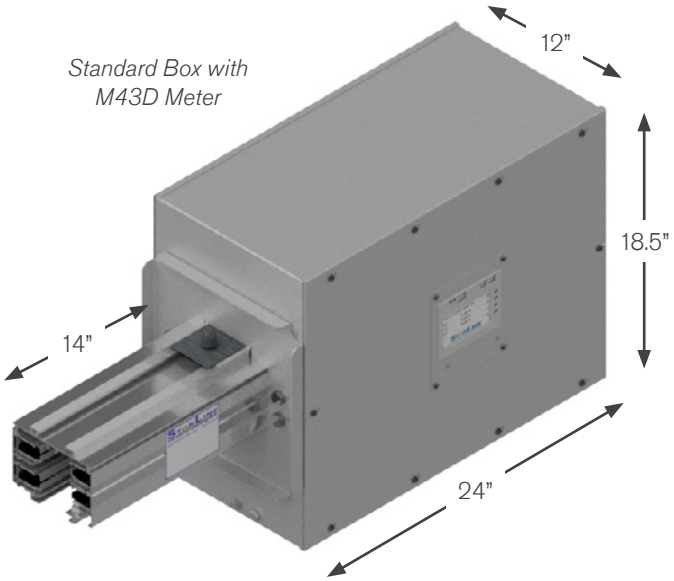
*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on **downloads.starlinepower.com/starline/***

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 M40 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.

Standard Box with M43D Meter



Box/Lugs Option	1 Meter or Accessory	1 Meter & 1 Accessory (opposite lids)	1 Meter & 1 Accessory (same lid)
(S) Standard Box, Standard Lugs	X	X	X
(D) Standard Box, Double Lugs	X	X	X
(Q) Large Box, Quad Lugs	X	X	X
(B) Standard Box, 2 Bolt Lugs	X	X	X

AC End Feed Meter Options

M41 WiFi, ≤415V Y, ≤240V Δ

M43 No WiFi, ≤415V Y, ≤240V Δ

M45 WiFi, 600V Y, 347V Δ

M47 No WiFi, 600V Y, 347V Δ

Y = wye, Δ = delta

DC End Feed Meter Options

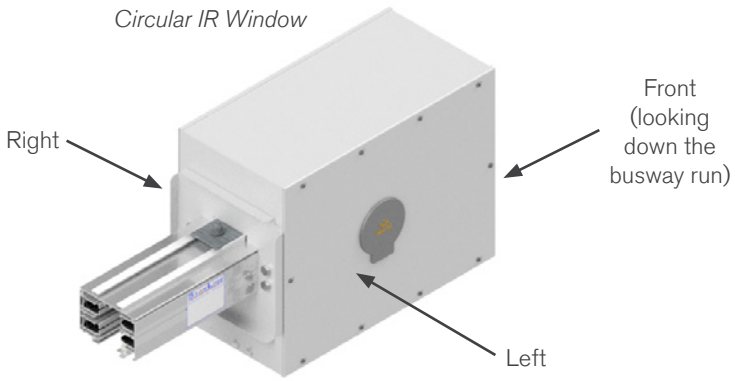
M61 Single Eth./WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

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

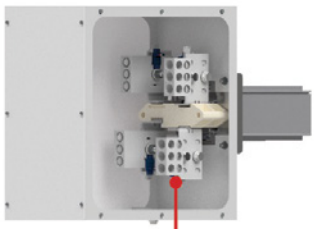
Standard Box with Circular IR Window



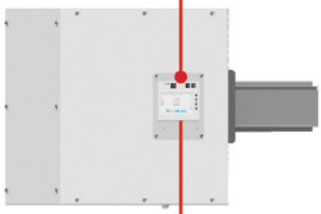
The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on* **page 4.58 *End Feed Units: Product Numbers)*

END FEED UNITS: ACCESSORIES

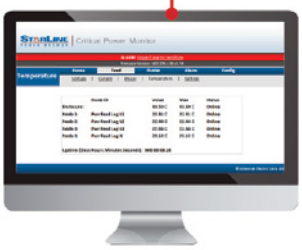
Temperature Monitor
Temperature sensor technology is now available with the Starline Critical Monitor (CPM) for End Feeds. This innovative technology is a first of its kind; making the monitoring and viewing of temperature data instantaneous.



Wired nodes are installed in the busway end feed, which measure the temperature of each mechanical or compression lug.



Each node communicates the temperature back to the Starline CPM. Both power and temperature information will now display on the meter's LCD screen.



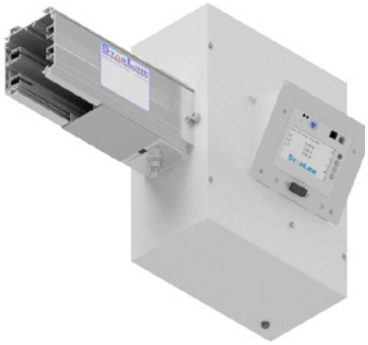
Temperature data also automatically transfer to the CPM's integral webpage—placing timely data at the end users fingertips.

(Refer to option 17. M40 Options on **page 4.59** *End Feed Units: Product Numbers)*

Angled Meter Lid
The angled meter End Feed lid is an accessory that delivers the flexibility to change the viewing angle for Display Meters in an End Feed.

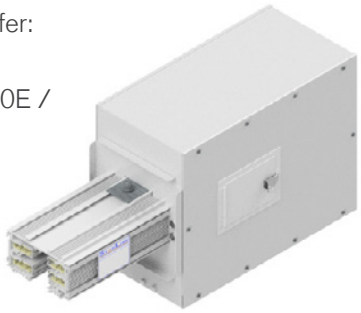
This enclosure allows for the meter to be mounted flush to the End Feed lid or presented in an extended position at 30° from vertical. This presents a more comfortable and easier viewing angle when looking up at an End Feed unit to read the LCD screen.

(Refer to option 10. Accessories Package on **page 4.58** *End Feed Units: Product Numbers)*

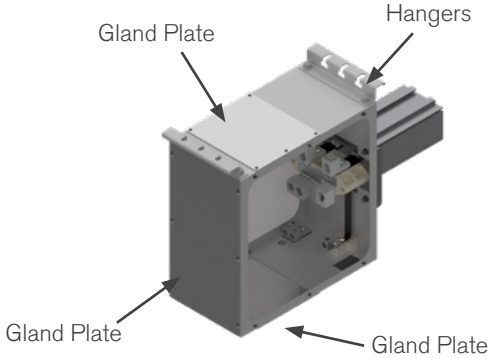


IR Windows
IR windows added to End Feeds offer:

- Enhanced electrical safety
- Increased compliance to NFPA 70E / CSA Z462
- Reduced PPE
- Closed-door infrared inspections
- Stable and consistent transmission over product life
- Largest field of view of any IR window
- Supports visual and infrared imaging for any IR camera



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.



END FEED UNITS: PRODUCT NUMBERS

U	F	800	T5	C	4	S	-	S	N	S	N
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Lug/Box Options	9. Meter Location	10. Accessories Package	11. Accessories Location

-	102	C	-	STD	0	-	M41	S	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. M40 Options	*18. System Config. and CT Type	

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

F	End Feed

3. Product Frame *(maximum amperage)*

800	800 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

5. Material *(busbar material)*

C	Copper	**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	**R**	Reversed

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

S	Standard lugs, Standard box	**D**	Double lugs, Standard box
B	Bolt Lugs, Standard Box	**Q**	Quad lugs, Large box

9. Meter Location *(from the terminal, the side with removable lid)*

R	Right	**L**	Left
N	None (N/A)		

10. Accessories Package *(optional accessories for feed units)*

S	Standard	**R**	IR Window - Rectangular
C	IR Window - Circular	**A**	Angled Meter Lid
T	IR (rect.) + Angled Lid	**L**	IR (circ.) + Angled Lid

11. 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)*

102	14 inches	*(For other lengths, consult the factory)*

13. Busway Access

C	Continuous

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
WHT	Paint Factory White	****RAL (please see page 4.80)**	

15. Tape Marking *(colored tape on both sides of busway housing)*

0	None	**7**	Tape Factory Blue
3	Tape Factory Black	**8**	Tape Factory Green
4	Tape Factory White	**9**	Tape Factory Yellow
6	Tape Factory Red		

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

U	F	800	T5	C	4	S	-	S	N	S	N
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	10. Accessories Package	11. Accessories Location

-	102	C	-	STD	0	-	M41	S	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

***16. Meter Release** *(M40 AC)*

M41	WiFi, ≤415V Y, ≤240V Δ
M43	No WiFi, ≤415V Y, ≤240V Δ
M45	WiFi, 600V Y, 347V Δ
M47	No WiFi, 600V Y, 347V Δ

***16. Meter Release** *(M60 DC)*

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

***17. Meter Options** *(M40 AC)*

S	Standard (M60s also)	**F**	Featured (D+A)
D	Display (M60s also)	**E**	Enhanced (N+A)
N	(Measured) Neutral	**P**	Professional (D+N)
A	Audible Alarm	**U**	Ultimate (D+N+A)
B	Wired Temperature Monitor	**W**	(B+D+N)
V	(B+N)	**1**	(B+D+A)
C	(B+D)	**2**	(B+N+A)
M	(B+A)	**3**	(B+D+N+A)

***17. Meter Options** *(M60 DC)*

S	Standard (High Voltage)	**P**	Standard (48 VDC)
D	Display (High Voltage)	**Q**	Display (48 VDC)

M60 Meters support: High Voltage: 120 to 300VDC/Split Phase 120VDC (+/-60) to 380VDC (+/-180) OR Low Voltage: 48VDC

***18. System Configuration and CT Type** *(M40 AC)*

1	LLD - Standard, Milivolt	**K**	LLD - SC, 5A
2	LLY - Standard, Milivolt	**L**	LLY - SC, 5A
3	LNY - Standard, Milivolt	**M**	LNY - SC, 5A

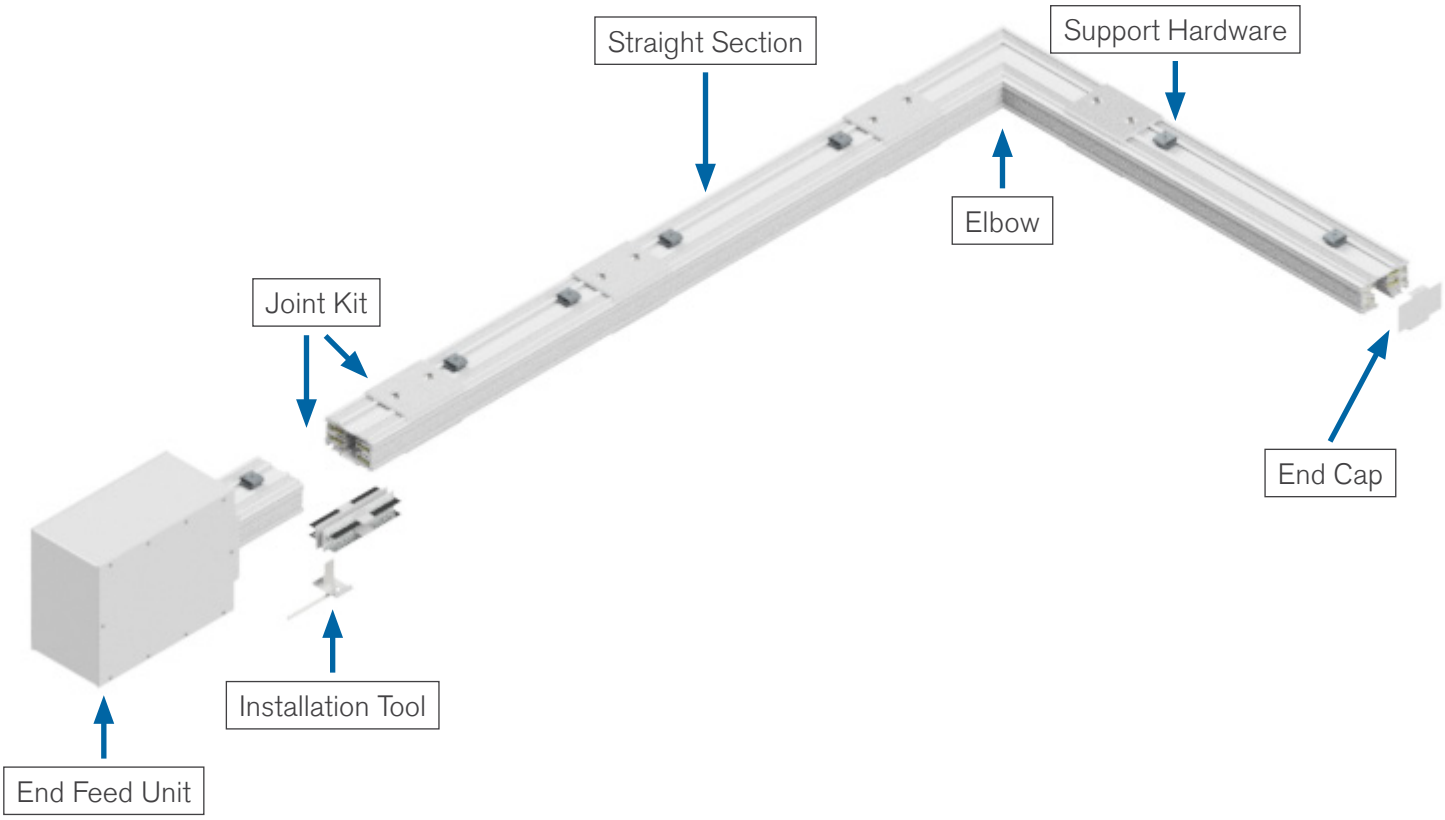
line-line or line-neutral and wye or delta systems

***18. System Configuration and CT Type** *(M60 DC)*

1	Circuit 1 Only, Solid Core
2	Circuit 2 Only, Solid Core
3	Both Circuits, Solid Core

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, M47 Meter, Standard Meter Options, LLD - Standard, Milivolt*

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 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.

US		Metric	
L1 or Phase A	black	L1 or Phase A	brown
L2 or Phase B	red	L2 or Phase B	black
	blue		gray
L3 or Phase C	white	L3 or Phase C	blue
Neutral Ground	green/ black	Neutral Ground	green/ yellow

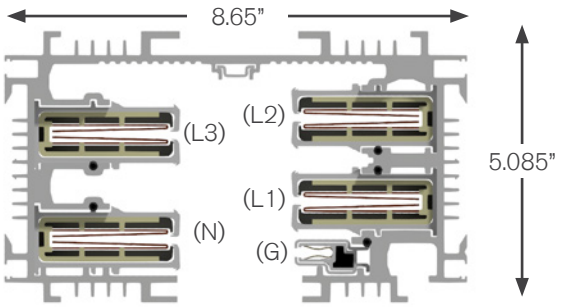
Material
Extruded Aluminum

Ratings
100% Ground Path
1000 Amps
600 Volt

Length
Standard lengths 5 and 10 ft (max) or custom in between 2-10ft

Voltage Drop
Distributed load
Single Phase 1V per 15 ft (.8PF)
Three Phase 1V per 25 ft (.8PF)

Weight
10 ft 4 pole w/ ground: 210 lbs (Hybrid)



STRAIGHT SECTIONS: PRODUCT NUMBERS

U	S	1K0	T5	H	4	S	-	0200	C
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Straight	9. Busway

-	STD	0
	10. Paint Color	11. Tape Marking

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

S	Straight Section

3. Product Frame *(maximum amperage)*

1K0	1000 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

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

9. Busway Access *(how plugs access the busway)*

C	Continuous

10. Paint Color *(allows painting of the busway housing)*

STD	Factory Mill Finish	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

11. Tape Marking *(colored tape on both sides of busway housing)*

0	None

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*

US1K0K5HGS-1000R-C010 *= 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*

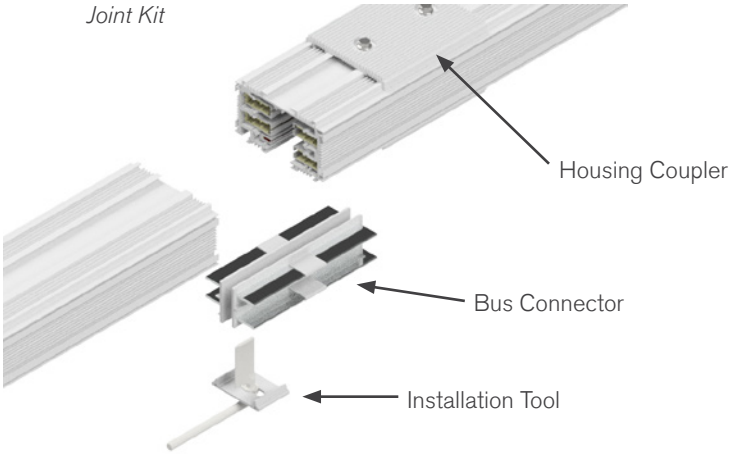
ELBOW SECTIONS

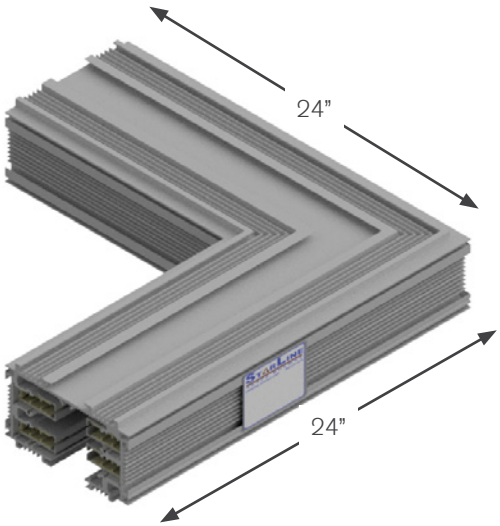
Product Description
An Elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

Connection Accessories
(Ordered Separately)
A Joint Kit is used to make mechanical and electrical connections to adjacent busway sections.

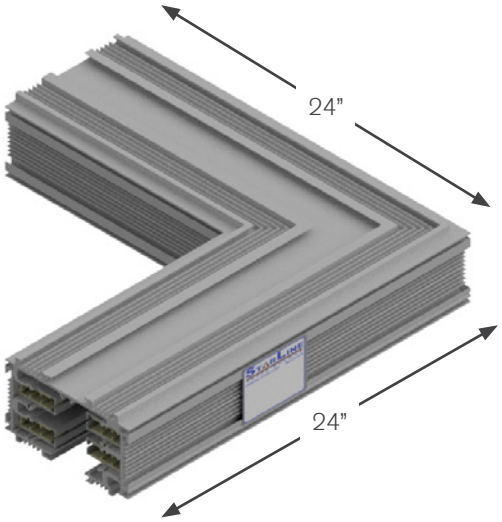
Weight
77 lbs

Joint Kit

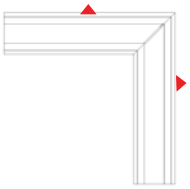




External Elbow

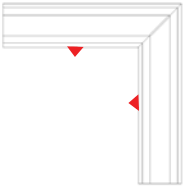


Internal Elbow



External Elbow

▲ = Polarizing Strip



Internal Elbow

ELBOW SECTIONS: PRODUCT NUMBERS

U	E	1K0	T5	H	4	S	-	IN	-	STD	0
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction		9. Paint Color	10. Tape Marking

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

E	Elbow Section

3. Product Frame *(maximum amperage)*

1K0	1000 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 Systems (Limiting Strip)

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. Turning Direction *(direction of section polarizing stripe)*

IN	Internal	**EX**	External

9. Paint Color *(allows painting of the busway housing)*

STD	Factory Mill Finish	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

10. Tape Marking *(colored tape on both sides of busway housing)*

0	None

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*

UE1K0T5HGS-EX-STD0 *= 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).

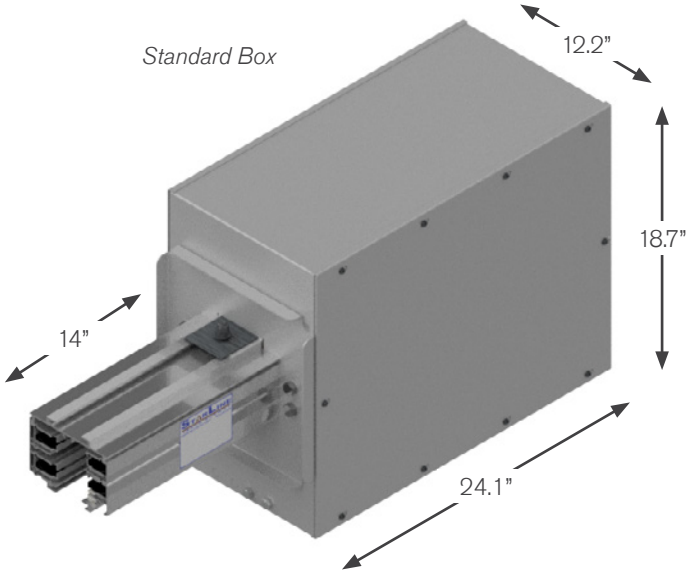
Special need power feed units for confined spaces, as found in mission critical data centers, can also be designed and fabricated but may require minimum quantities.

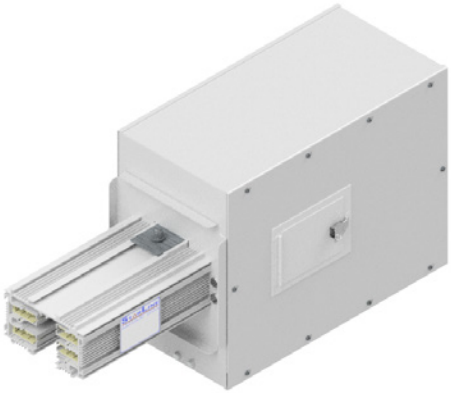
Weight
100.5 lbs
(76 lbs without busway stub)

	Boxes		
Lugs	Standard	Large	Fused
Standard	S		
Double			
Bolt*	B		

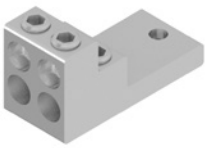
Box size and Lug options:
Refer to option 8. Lug/Box Options on **page 4.68** *End Feed Units: Product Numbers*

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





Standard Box with Rectangular IR Window



Standard "S"

Standard "B"

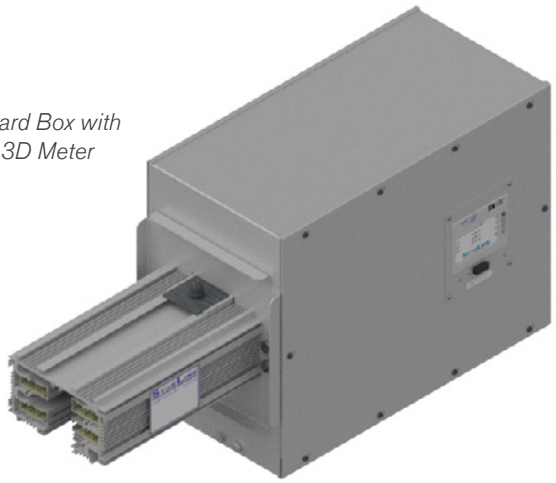
*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on **downloads.starlinepower.com/starline/***

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 M40 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.

Standard Box with M43D Meter



Box/Lugs Option	1 Meter or Accessory	1 Meter & 1 Accessory (opposite lids)	1 Meter & 1 Accessory (same lid)
(S) Standard Box, Standard Lugs	X	X	X
(B) Standard Box, Bolt Lugs	X	X	X

AC End Feed Meter Options

M41 WiFi, ≤415V Y, ≤240V Δ

M43 No WiFi, ≤415V Y, ≤240V Δ

M45 WiFi, 600V Y, 347V Δ

M47 No WiFi, 600V Y, 347V Δ

Y = wye, Δ = delta

DC End Feed Meter Options

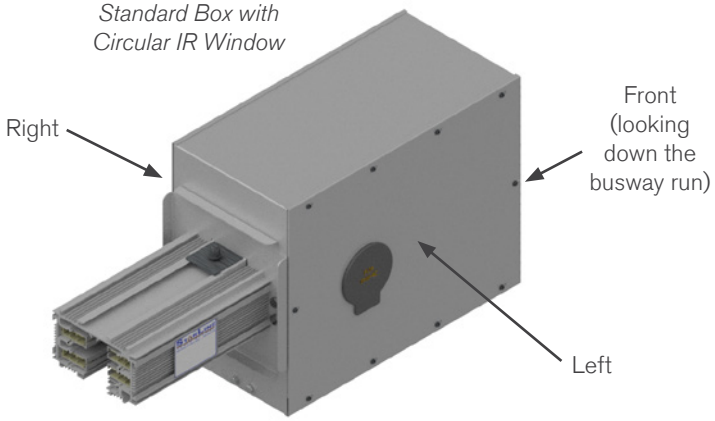
M61 Single Eth./WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

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

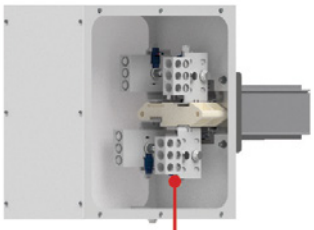
Standard Box with Circular IR Window



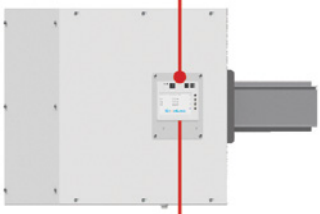
The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on* **page 4.68 *End Feed Units: Product Numbers)*

END FEED UNITS: ACCESSORIES

Temperature Monitor
Temperature sensor technology is now available with the Starline Critical Monitor (CPM) for End Feeds. This innovative technology is a first of its kind; making the monitoring and viewing of temperature data instantaneous.



Wired nodes are installed in the busway end feed, which measure the temperature of each mechanical or compression lug.



Each node communicates the temperature back to the Starline CPM. Both power and temperature information will now display on the meter's LCD screen.

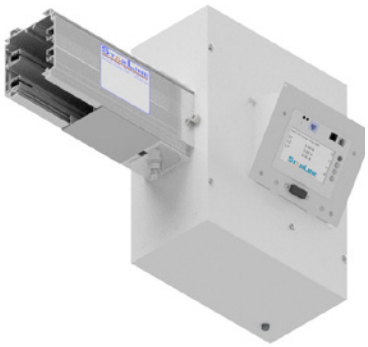
Temperature data also automatically transfer to the CPM's integral webpage—placing timely data at the end users fingertips.

(Refer to option 17. M40 Options on **page 4.69** *End Feed Units: Product Numbers)*

Angled Meter Lid
The angled meter End Feed lid is an accessory that delivers the flexibility to change the viewing angle for Display Meters in an End Feed.

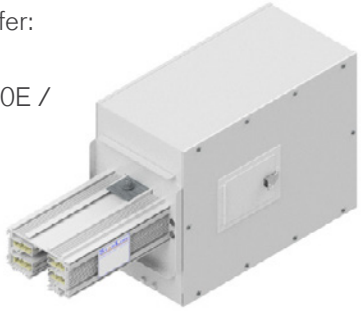
This enclosure allows for the meter to be mounted flush to the End Feed lid or presented in an extended position at 30° from vertical. This presents a more comfortable and easier viewing angle when looking up at an End Feed unit to read the LCD screen.

(Refer to option 10. Accessories Package on **page 4.68** *End Feed Units: Product Numbers)*

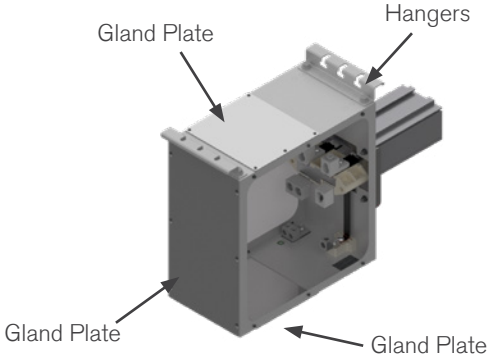


IR Windows
IR windows added to End Feeds offer:

- Enhanced electrical safety
- Increased compliance to NFPA 70E / CSA Z462
- Reduced PPE
- Closed-door infrared inspections
- Stable and consistent transmission over product life
- Largest field of view of any IR window
- Supports visual and infrared imaging for any IR camera



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.



END FEED UNITS: PRODUCT NUMBERS

U	F	1K0	T5	H	4	S	-	S	N	S	N
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Lug/Box Options	9. Meter Location	10. Accessories Package	11. Accessories Location

-	0102	C	-	STD	0	-	M41	S	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. M40 Options	*18. System Config. and CT Type	

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

F	End Feed

3. Product Frame *(maximum amperage)*

1K0	1000 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

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	**R**	Reversed

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

S	Standard lugs, Standard box	**B**	Bolt lugs, Standard box

9. Meter Location *(from the terminal, the side with removable lid)*

R	Right	**L**	Left
N	None (N/A)		

10. Accessories Package *(optional accessories for feed units)*

S	Standard	**R**	IR Window - Rectangular
C	IR Window - Circular	**A**	Angled Meter Lid
T	IR (rect.) + Angled Lid	**L**	IR (circ.) + Angled Lid

11. 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)*

0102	14 inches	*(For other lengths, consult the factory)*

13. Busway Access

C	Continuous

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
WHT	Paint Factory White	****RAL (please see page 4.80)**	

15. Tape Marking *(colored tape on both sides of busway housing)*

0	None

EXAMPLE
UF1K0T5H4R-SRLL-0102C-BLK0 *= 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

U	F	1K0	T5	H	4	S	-	S	N	S	N
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	10. Accessories Package	11. Accessories Location

-	0102	C	-	STD	0	-	M41	S	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

***16. Meter Release** *(M40 AC)*

M41	WiFi, ≤415V Y, ≤240V Δ
M43	No WiFi, ≤415V Y, ≤240V Δ
M45	WiFi, 600V Y, 347V Δ
M47	No WiFi, 600V Y, 347V Δ

***16. Meter Release** *(M60 DC)*

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

***17. Meter Options** *(M40 AC)*

S	Standard (M60s also)	**F**	Featured (D+A)
D	Display (M60s also)	**E**	Enhanced (N+A)
N	(Measured) Neutral	**P**	Professional (D+N)
A	Audible Alarm	**U**	Ultimate (D+N+A)
B	Wired Temperature Monitor	**W**	(B+D+N)
V	(B+N)	**1**	(B+D+A)
C	(B+D)	**2**	(B+N+A)
M	(B+A)	**3**	(B+D+N+A)

***17. Meter Options** *(M60 DC)*

S	Standard (High Voltage)	**P**	Standard (48 VDC)
D	Display (High Voltage)	**Q**	Display (48 VDC)

M60 Meters support: High Voltage: 120 to 300VDC/Split Phase 120VDC (+/-60) to 380VDC (+/-180) OR Low Voltage: 48VDC

***18. System Configuration and CT Type** *(M40 AC)*

1	LLD - Standard, Milivolt	**K**	LLD - SC, 5A
2	LLY - Standard, Milivolt	**L**	LLY - SC, 5A
3	LNY - Standard, Milivolt	**M**	LNY - SC, 5A

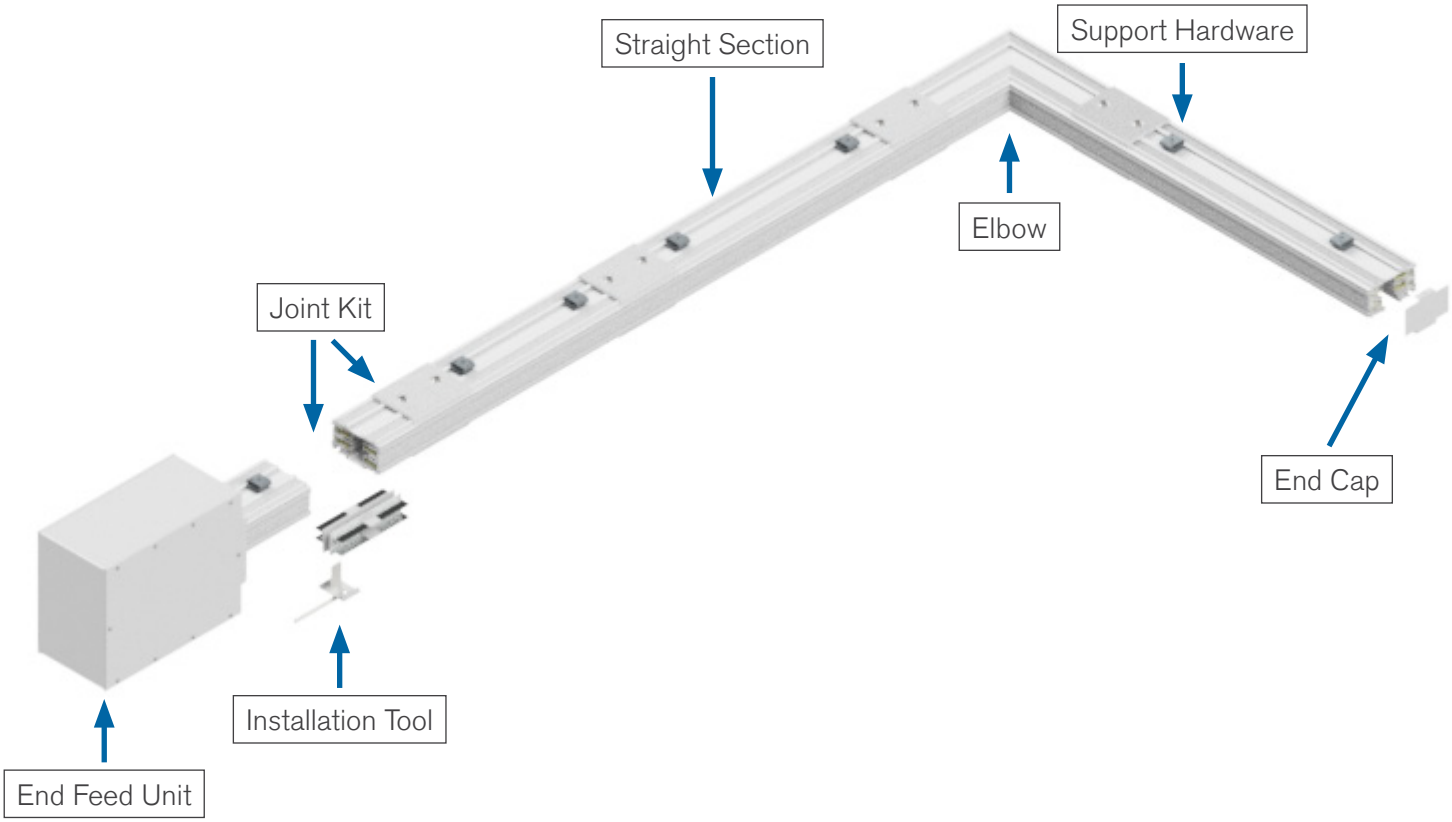
line-line or line-neutral and wye or delta systems

***18. System Configuration and CT Type** *(M60 DC)*

1	Circuit 1 Only, Solid Core
2	Circuit 2 Only, Solid Core
3	Both Circuits, Solid Core

EXAMPLE
UF1K0T5H4R-SRLL-0102C-BLK0-M47S4 *= 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, M47 Meter, Standard Meter Options, LLD - Standard, 5 amp*

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 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
Powder Coated Extruded Aluminum

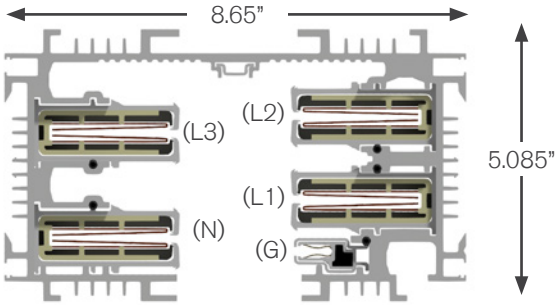
Ratings
100% Ground Path
1200 Amps
600 Volt

Length
Standard lengths 5 and 10 ft (max) or custom in between 2-10ft

Voltage Drop
Distributed load
Single Phase 1V per 15ft (.8PF)
Three Phase 1V per 25ft (.8PF)

Weight
10 ft 4 pole w/ ground: 210 lbs (Hybrid)

US		Metric	
L1 or Phase A	black	L1 or Phase A	brown
L2 or Phase B	red	L2 or Phase B	black
	blue		gray
L3 or Phase C	white	L3 or Phase C	blue
Neutral Ground	green/ black	Neutral Ground	green/ yellow



STRAIGHT SECTIONS: PRODUCT NUMBERS

U	S	1K2	T5	H	4	S	-	0200	C	-	STD	0
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Straight	9. Busway		10. Paint Color	11. Tape Marking

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

S	Straight Section

3. Product Frame *(maximum amperage)*

1K2	1200 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

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

9. Busway Access *(how plugs access the busway)*

C	Continuous

10. Paint Color *(allows painting of the busway housing)*

STD	Paint Factory Silver	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

11. Tape Marking *(colored tape on both sides of busway housing)*

0	None

EXAMPLES

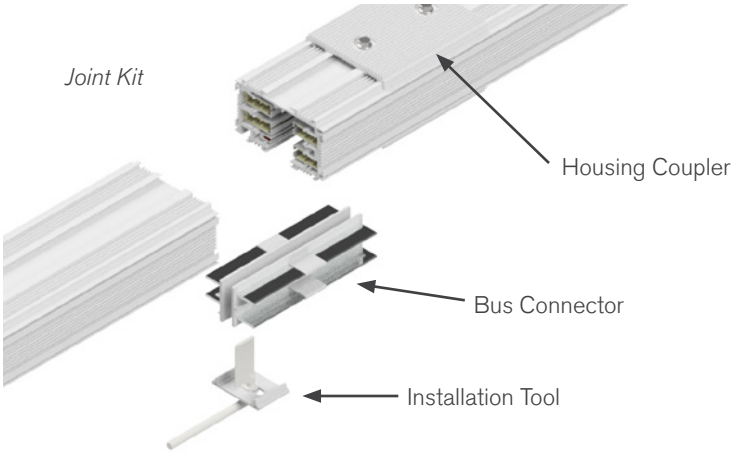
US1K2T5H4S-0500C-STD0 *= US System, Straight Section, 1200 amps, T5 System, Hybrid, 3 Phase plus Neutral, Standard Polarization, 5 foot Straight Length, Painted Factory Silver, No Tape Marking*

US1K2K5HGS-0206C-P010 *= 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*

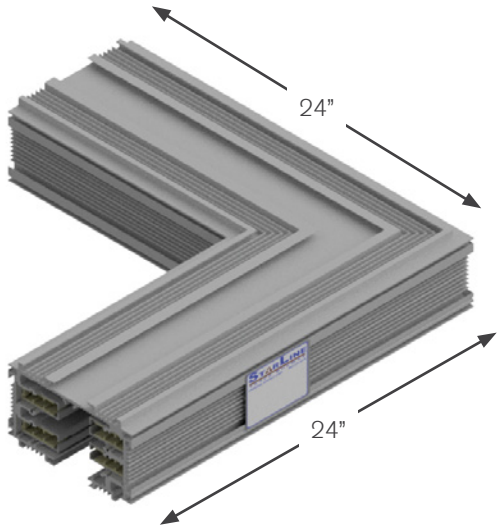
ELBOW SECTIONS

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.

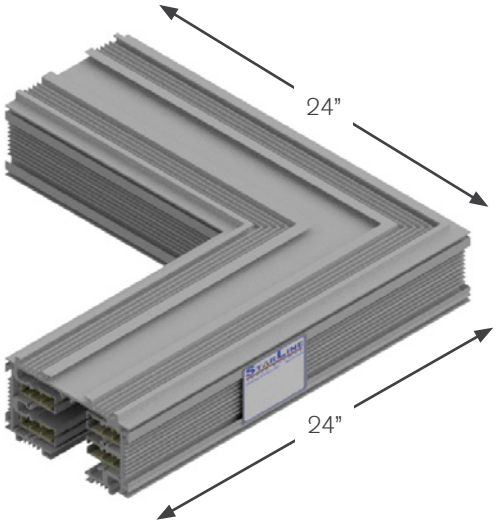
Connection Accessories
(Ordered Separately)
A Joint Kit is used to make mechanical and electrical connections to adjacent busway sections.



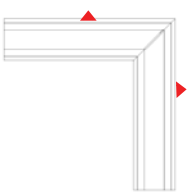
Weight
77 lbs



External Elbow

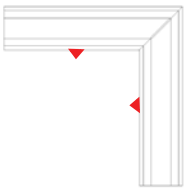


Internal Elbow



External Elbow

▲ = Polarizing Strip



Internal Elbow

ELBOW SECTIONS: PRODUCT NUMBERS

U	E	1K2	T5	H	4	S	-	IN	-	STD	0
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Turning Direction		9. Paint Color	10. Tape Marking

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

E	Elbow Section

3. Product Frame *(maximum amperage)*

1K2	1200 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

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. Turning Direction *(direction of section polarizing stripe)*

IN	Internal	**EX**	External

9. Paint Color *(allows painting of the busway housing)*

STD	Paint Factory Silver	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

10. Tape Marking *(colored tape on both sides of busway housing)*

0	None

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*

UE1K2T5HGS-EX-STD0 *= 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).

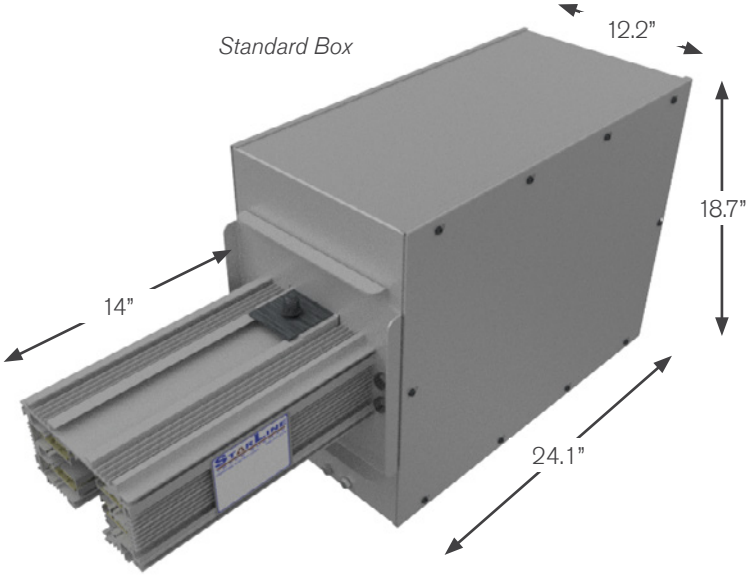
Special need power feed units for confined spaces, as found in mission critical data centers, can also be designed and fabricated but may require minimum quantities.

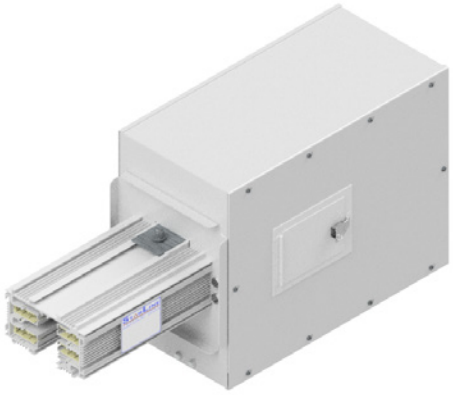
Weight
100.5 lbs
(76 lbs without busway stub)

	Boxes		
Lugs	Standard	Large	Fused
Standard	S		
Double			
Bolt	B		

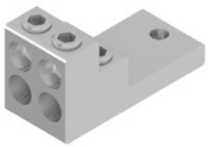
Box size and Lug options
Refer to option 8. Lug/Box Options on **page 4.78** *End Feed Units: Product Numbers*
**Bolt options include bolt, washer, nut.*
Lug not included.

Standard Box





Standard Box with Rectangular IR Window



Standard "S"

Standard "B"

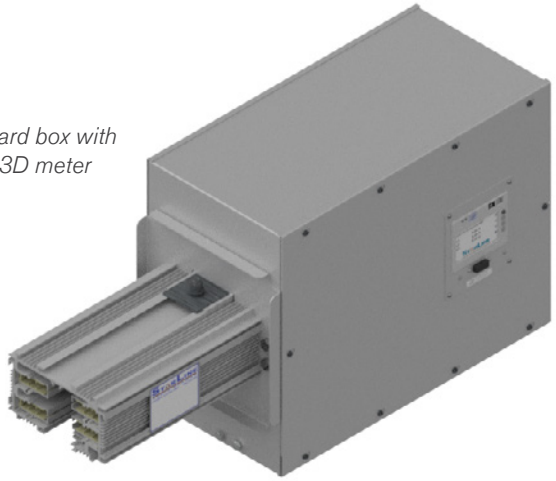
*Isolated or dedicated ground is determined at the feed during installation. For further details about Dedicated Ground vs. Isolated Ground, please reference our tech brief on **downloads.starlinepower.com/starline/***

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 M40 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.

Standard box with M43D meter



Box/Lugs Option	1 Meter or Accessory	1 Meter & 1 Accessory (opposite lids)	1 Meter & 1 Accessory (same lid)
(S) Standard Box, Standard Lugs	X	X	X
(B) Standard Box, Bolt Lugs	X	X	X

AC End Feed Meter Options

M41 WiFi, ≤415V Y, ≤240V Δ

M43 No WiFi, ≤415V Y, ≤240V Δ

M45 WiFi, 600V Y, 347V Δ

M47 No WiFi, 600V Y, 347V Δ

Y = wye, Δ = delta

DC End Feed Meter Options

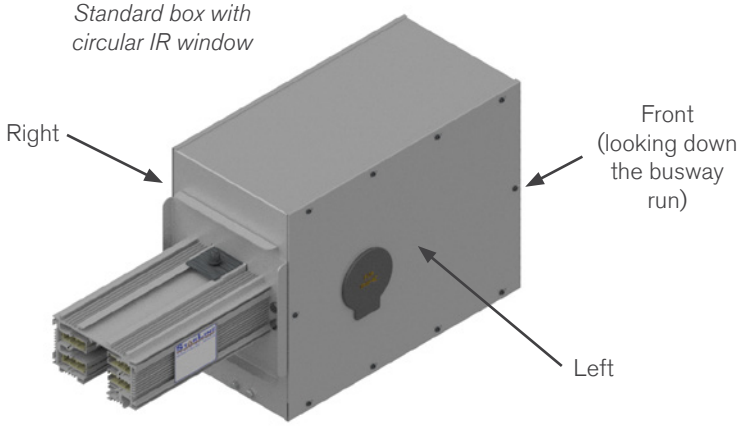
M61 Single Eth./WiFi, single phase, 120VDC - 300VDC or split phase 120VDC (+/-60VDC) to 380V(+/-190VDC) OR 48VDC

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

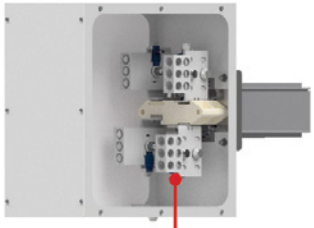
Standard box with circular IR window



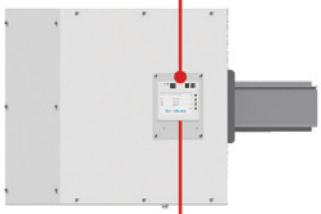
The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on* **page 4.78 *End Feed Units: Product Numbers)*

END FEED UNITS: ACCESSORIES

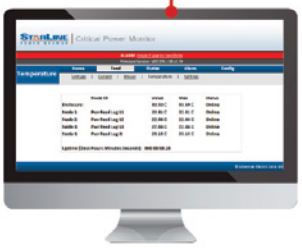
Temperature Monitor
Temperature sensor technology is now available with the Starline Critical Monitor (CPM) for End Feeds. This innovative technology is a first of its kind; making the monitoring and viewing of temperature data instantaneous.



Wired nodes are installed in the busway end feed, which measure the temperature of each mechanical or compression lug.



Each node communicates the temperature back to the Starline CPM. Both power and temperature information will now display on the meter's LCD screen.



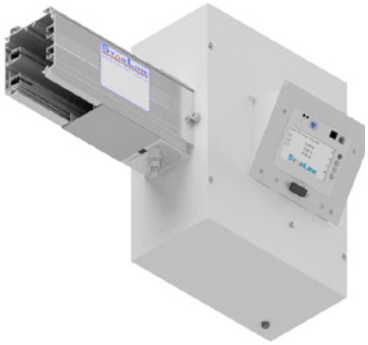
Temperature data also automatically transfer to the CPM's integral webpage—placing timely data at the end users fingertips.

(Refer to option 17. M40 Options on **page 4.79** *End Feed Units: Product Numbers)*

Angled Meter Lid
The angled meter End Feed lid is an accessory that delivers the flexibility to change the viewing angle for Display Meters in an End Feed.

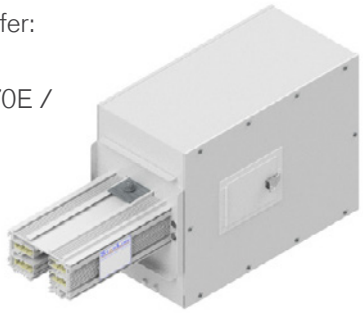
This enclosure allows for the meter to be mounted flush to the End Feed lid or presented in an extended position at 30° from vertical. This presents a more comfortable and easier viewing angle when looking up at an End Feed unit to read the LCD screen.

(Refer to option 10. Accessories Package on **page 4.78** *End Feed Units: Product Numbers)*

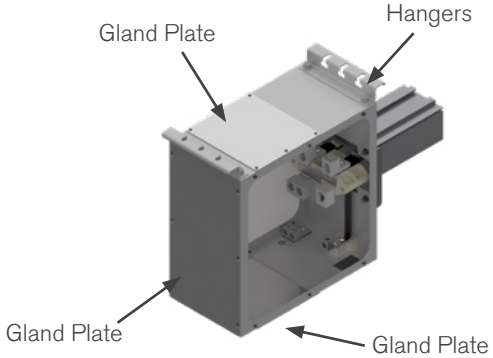


IR Windows
IR windows added to End Feeds offer:

- Enhanced electrical safety
- Increased compliance to NFPA 70E / CSA Z462
- Reduced PPE
- Closed-door infrared inspections
- Stable and consistent transmission over product life
- Largest field of view of any IR window
- Supports visual and infrared imaging for any IR camera



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.



END FEED UNITS: PRODUCT NUMBERS

U	F	1K2	T5	H	4	S	-	S	N	S	N
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Lug/Box Options	9. Meter Location	10. Accessories Package	11. Accessories Location

-	0102	C	-	STD	0	-	M41	S	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. M40 Options	*18. System Config. and CT Type	

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

F	End Feed

3. Product Frame *(maximum amperage)*

1K2	1200 amps

4. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)

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	**R**	Reversed

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

S	Standard lugs, Standard box	**B**	Bolt lugs, Standard box

9. Meter Location *(from the terminal, the side with removable lid)*

R	Right	**L**	Left
N	None (N/A)		

10. Accessories Package *(optional accessories for feed units)*

S	Standard	**R**	IR Window - Rectangular
C	IR Window - Circular	**A**	Angled Meter Lid
T	IR (rect.) + Angled Lid	**L**	IR (circ.) + Angled Lid

11. 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)*

0102	14 inches	*(For other lengths, consult the factory)*

13. Busway Access

C	Continuous Access

14. Paint Color *(allows painting of the busway housing)*

STD	Paint Factory Silver	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

15. Tape Marking *(colored tape on both sides of busway housing)*

0	None

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

U	F	1K2	T5	H	4	S	-	S	N	S	N
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	10. Accessories Package	11. Accessories Location

-	0102	C	-	STD	0	-	M41	S	1	*Optional
	12. Straight Length	13. Busway Access		14. Paint Color	15. Tape Marking		*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

***16. Meter Release** *(M40 AC)*

M41	WiFi, ≤415V Y, ≤240V Δ
M43	No WiFi, ≤415V Y, ≤240V Δ
M45	WiFi, 600V Y, 347V Δ
M47	No WiFi, 600V Y, 347V Δ

***16. Meter Release** *(M60 DC)*

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

***17. Meter Options** *(M40 AC)*

S	Standard (M60s also)	**F**	Featured (D+A)
D	Display (M60s also)	**E**	Enhanced (N+A)
N	(Measured) Neutral	**P**	Professional (D+N)
A	Audible Alarm	**U**	Ultimate (D+N+A)
B	Wired Temperature Monitor	**W**	(B+D+N)
V	(B+N)	**1**	(B+D+A)
C	(B+D)	**2**	(B+N+A)
M	(B+A)	**3**	(B+D+N+A)

***17. Meter Options** *(M60 DC)*

S	Standard (High Voltage)	**P**	Standard (48 VDC)
D	Display (High Voltage)	**Q**	Display (48 VDC)

M60 Meters support: High Voltage: 120 to 300VDC/Split Phase 120VDC (+/-60) to 380VDC (+/-180) OR Low Voltage: 48VDC

***18. System Configuration and CT Type** *(M40 AC)*

1	LLD - Standard, Milivolt	**K**	LLD - SC, 5A
2	LLY - Standard, Milivolt	**L**	LLY - SC, 5A
3	LNY - Standard, Milivolt	**M**	LNY - SC, 5A

line-line or line-neutral and wye or delta systems

***18. System Configuration and CT Type** *(M60 DC)*

1	Circuit 1 Only, Solid Core
2	Circuit 2 Only, Solid Core
3	Both Circuits, Solid Core

EXAMPLE
UF1K2T5H4R-SRLL-0102C-BLK0-M47S4 *= 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, M47 Meter, Standard Meter Options, LLD - Standard, 5 amp*

RAL COLORS

1st Character

P	Paint

2nd Character

0	100
1	101
2	102
3	103
4	200
5	201
A	300
B	301
C	302
D	303
E	400
F	401
G	500
H	501
J	502
K	600
L	601
M	602
N	603
P	700
Q	701
R	702
S	703
T	704
U	800
V	801
W	802
X	900
Y	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 Character

0	0

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 full-access slot of busway. Maximum hanger support spacing is every 10 feet.

Part Number
(250, 400, 600 & 800 amp systems only):
UBRHT5-1
UBRHT5-2
Available in plain zinc or black (-BLK)
Weight
.3 lb

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.

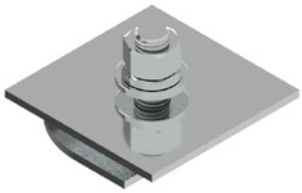
Part Number
(250, 400 & 600 amp systems only):
U.S: UBRHT5-3

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.

Part Number
(250, 400, 600 & 800 amp systems only):
UBHT5-1

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



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.

Part Number
(Required for 1000 and 1200A, available for all T5 systems.)

UBSHT5-4

Available in plain zinc or black (-BLK)

Weight
.09 kg

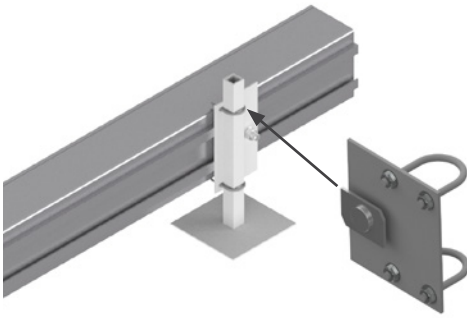
Wall Mount Bracket
For mounting to walls, using standard hangers. Hanger support is required everything 3 meters maximum.

Part Number
WMBT5-9

ACCESSORIES: SUPPORT HARDWARE

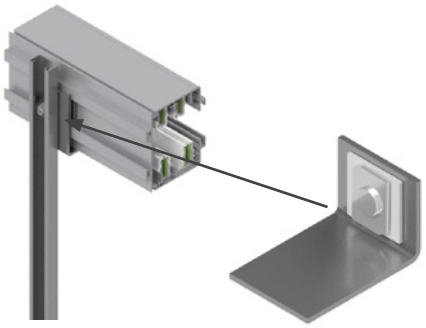
Raised Mounting Bracket
For mounting the busway horizontally (with access slot facing to the side) for under floor applications.

Part Number
(250, 400, 600 & 800 amp systems only):
URFBT5-2
Available in plain zinc or black (-BLK)
Weight
.2 lb



Side Mount Brackets
Mounted to vertical supports.

Part Number
(250, 400, 600 & 800 amp systems only):
UBSST5-1
Available in plain zinc or black (-BLK)
Weight
.2 lb



Recessed Suspended Ceilings
For hanging busway into a recessed ceiling.

**Hanger bolt must be ordered separately*

Part Numbers
(for 250 and compact 400A systems):
SRM250T5-1

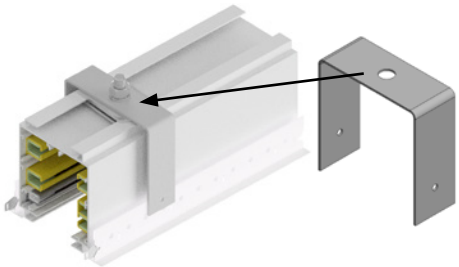
(for 400 amp systems):
SRM400T5-1

(for 600 amp systems):
SRM600T5-1

(for 800 amp systems):
SRM800T5-1

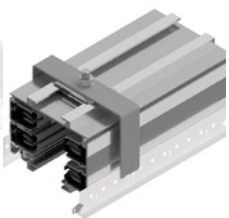
(for 1000 amp systems):
SRM1K0T5-1

(for 1200 amp systems):
SRM1K2T5-1
Available in plain zinc or black (-BLK)

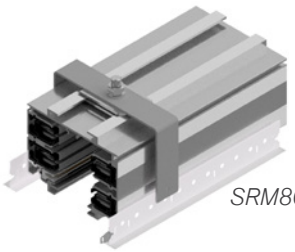


SRM250T5-1

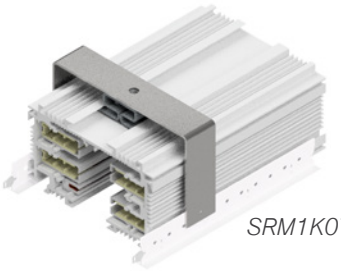
SRM400T5-1



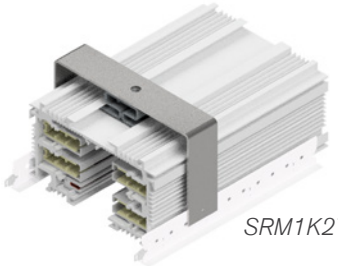
SRM600T5-1



SRM800T5-1



SRM1K0T5-1



SRM1K2T5-1

ACCESSORIES: SUPPORT HARDWARE

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.

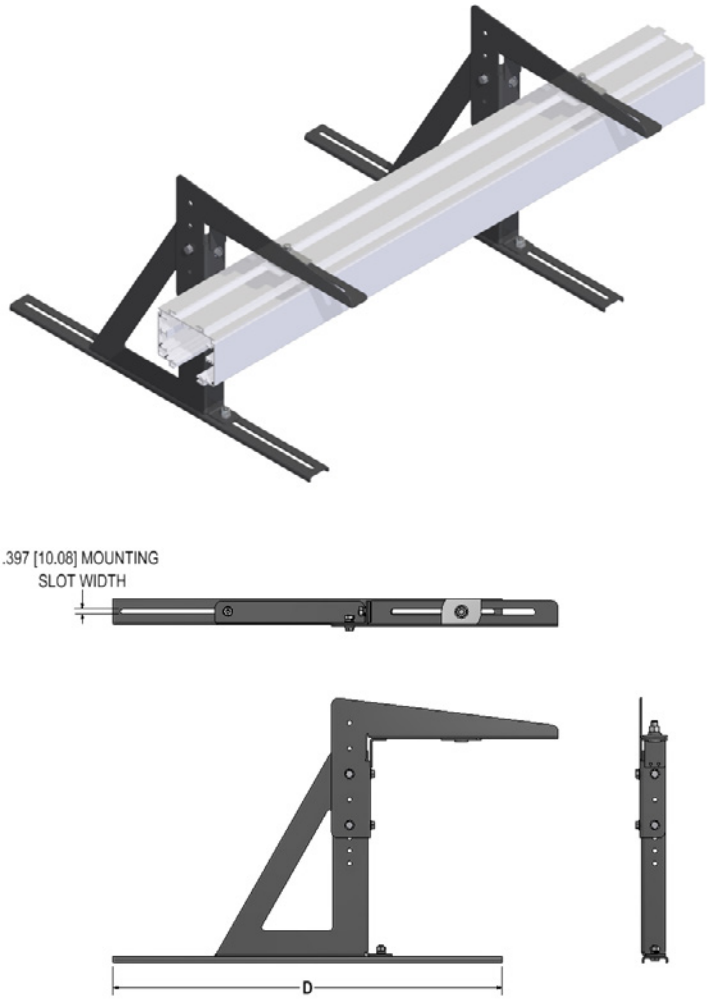
These accessories quickly and easily provide a flexible busway mounting solution on top of server cabinets, eliminating the need for threaded rod and strut support from the ceiling.

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 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
3-	Black
4-	White
6-	Red
7-	Blue

**consult factory for custom colors*

Part Number

U.S: UUSCMB-(X)-(D)-(C)

X = System (T5)

D = Depth (30", 36", 42", 48" or custom length)

C = Color (1, 3, 4, 6, 7)

EXAMPLES
UUSCMB-T5-36-4 *= US System, Universal Server Cabinet Mounting Bracket, T5 System, 36 inch Depth, White*

UUSCMB-T5-42-7 *= US System, Universal Server Cabinet Mounting Bracket, T5 System, 42 inch Depth, Blue*

ACCESSORIES: CONNECTION HARDWARE

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*

Part Numbers
(for 250 amp systems):
SJK250T5-1
SJK250T5G-1
SJK250T5N-1
SJK250T5F-1

(for 400 amp systems)

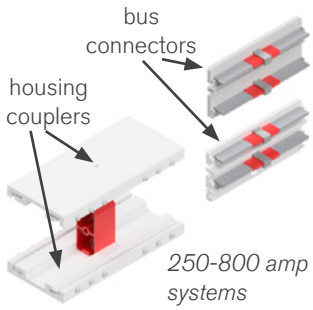
SJK400T5-1	*CJK400T5-1*
SJK400T5G-1	*CJK400T5G-1*
SJK400T5N-1	*CJK400T5N-1*
SJK400T5F-1	*CJK400T5F-1*

(for 600 amp systems)
SJK600T5-2
SJK600T5G-2

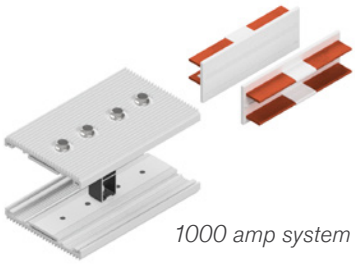
(for 800 amp systems)
SJK800T5-2
SJK800T5G-2

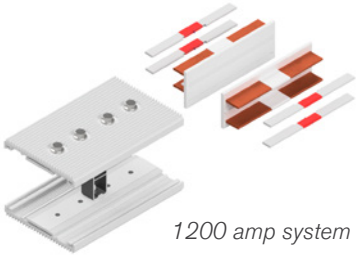
(for 1000 amp systems)
SJK1K0T5-2
SJK1K0T5G-2

(for 1200 amp systems)
SJK1K2T5-2
SJK1K2T5G-2



250-800 amp systems


1000 amp system


1200 amp system

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.

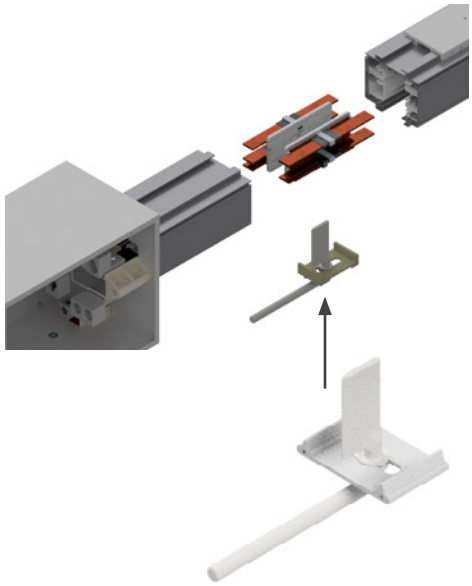
Part Number
(for all T5 systems 250-1200 amps)

ST5IT

No available colors

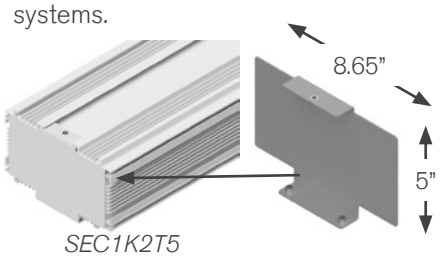
Weight

3.1 lb

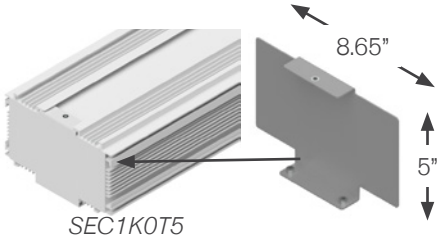


ACCESSORIES: CONNECTION HARDWARE

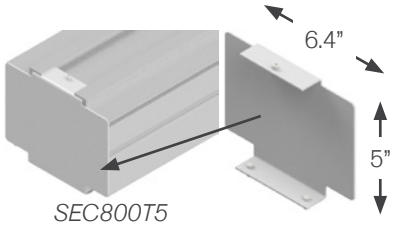
End Cap
For covering the end of T5 busway systems.



SEC1K2T5



SEC1K0T5



SEC800T5

Part Numbers

(for 250 amp systems and Compact 400A systems):
SEC250T5, CEC400T5

(for 400 amp systems):
SEC400T5

(for 600 amp systems):
SEC600T5

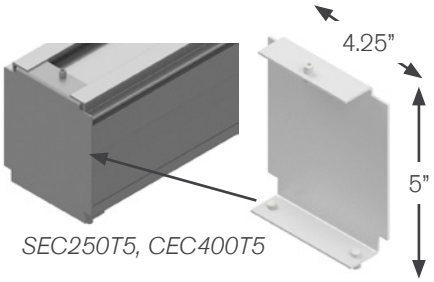
(for 800 amp systems):
SEC800T5

(for 1000 amp systems):
SEC1K0T5

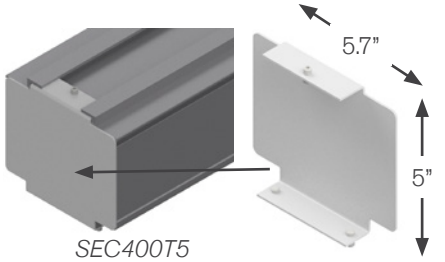
(for 1200 amp systems):
SEC1K2T5

Available in all standard and RAL

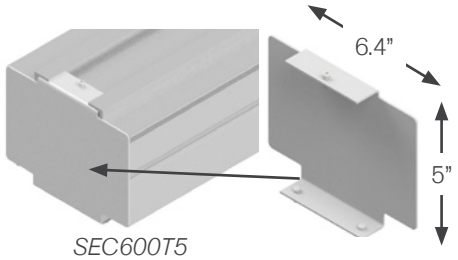
Weight: .4 lb



SEC250T5, CEC400T5



SEC400T5



SEC600T5

Optional Closure Strip
The Closure Strip snaps into the bottom access slot of T5 housing to close off access to power around the installed plug-in units. It is normally shipped in 9 foot 6 inch sections.

The Closure Strip is offered in both non-conductive plastic material and aluminum for 250, 400, 600 & 800 amp systems. It is only available in plastic for the 1000 & 1200 amp systems.

The aluminum Closure Strip affixes with an adhesive backing to the access slot of T5 housing.

Part Numbers

(for 250, 400, 600 & 800 amp systems):
SCST5-1

Aluminum closure strip:
SCST5-1-AL

(for 1000 & 1200 amp systems):
SCST5-2

-Plastic Closure Strip available in black & white

-Aluminum Closure Strip available in all standard colors

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.

Part Number

UDCCT5-10-SIL (silver)

UDCCT5-10-BLK (black)

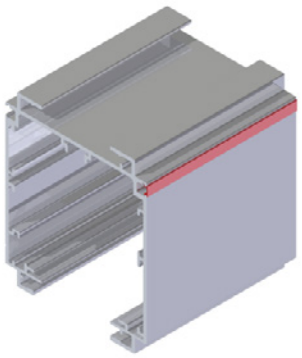
UDCCT5-10-GRN (green)

UDCCT5-10-YEL (yellow)

UDCCT5-10-W (white)

UDCCT5-10-RED (red)

UDCCT5-10-BLU (blue)



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.

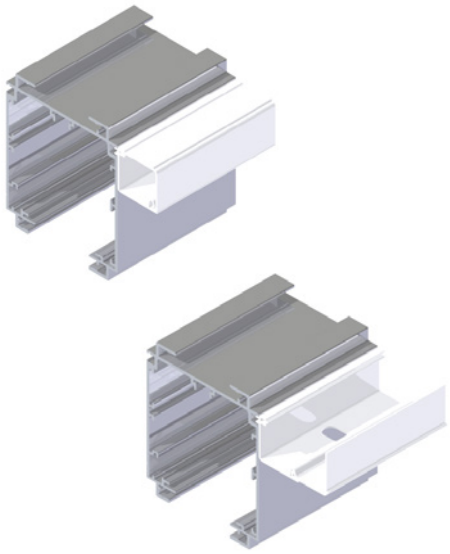
The Hinged Wire Way is available in lengths up to 10 feet.

Please contact sales to order the quantity and length needed.

Part Number

UHWWT5-10

Available in gray only



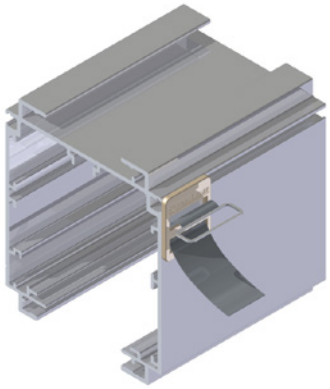
ADD-ON ACCESSORIES: DATA CHANNEL

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.

Part Number

SVCST5-12

Available in gray, with a black colored strap only



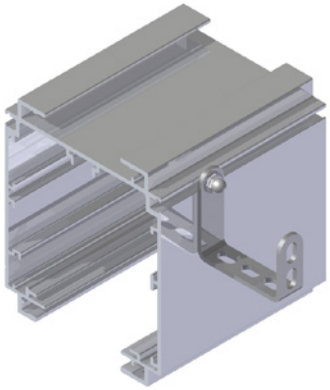
Multi Use Mounting Bracket
The Multi Use Mounting Bracket is an all-purpose bracket that easily attaches to any position on the busway. The bracket comes with 1/4 inch slotted holes throughout to allow for the attachment of a wide variety of accessories. Each bracket is capable of supporting a load of 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

SMMBT5-1

Available in plain zinc or black (-BLK)



SERVICES

Starline Services offers a comprehensive suite of services from startup and system certification through on-going support contracts and extended warranty programs. To ensure that your Busway system is installed properly you can trust Starline's team of factory certified technicians to perform services throughout the long life of your Starline Track Busway system. Our complete line of services include:

- Load Bank Testing and Equipment Rentals
- Meter Services
- Startup and System Certification
- Engineering Studies
- On-Site Installation Support
- On-Site Product Training
- Extended Warranty and Enhanced Service Plans

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**.

With over 30 years of experience in the busway market, Starline has the knowledge and expertise to ensure that your Track Busway system is functioning at a best-in-class level. We are currently offering the following services:

Load Bank Testing and Equipment Rentals
Whether you are in need of rental equipment to test your power system or a team of technicians to test the system for you, Starline Services has you covered. Select testing equipment from our inventory of load banks and associated gear, or work with a Starline engineer to customize your own test plan to suit your individual needs.

Meter Services
Factory trained and certified technicians will provide comprehensive on-site meter commissioning that includes meter inspection, programming and detailed documentation. Our technicians will program CPM meters and offer optional integration services to your BMS or DCIM for any and all meters located within your facility.

Startup and System Certification
Certified technicians inspect and validate that the installation meets factory standards, ensuring ongoing reliability and compliance with facility safety requirements. Upon successful completion of system startup, Starline's standard one (1) year manufacturer's warranty will be automatically extended in duration.

- 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

Engineering Studies (US Only)
Understanding the dangers and implementing a safety program is imperative to maintaining a safe work environment. Our professional engineers will conduct comprehensive facility electrical studies and recommend corrective actions, confirming your systems reliability and compliance with government and safety requirements.

Turnkey Installation Services (UK Only)
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.

SERVICES

On-Site Installation Support
On-site installation support begins by scheduling a site trip during your system installation. All work is performed by certified technicians- including review of installation best practices prior to the job, visual inspection of safe system installation, contractor installation oversight, and inspection and verification of functionality after rework.

On-Site Product Training
Certified technicians will provide a comprehensive training course curriculum that meets our high factory system standards, ensuring ongoing reliability of the system while also emphasizing operational safety. This course curriculum takes place in both a classroom and on-site with equipment.

Extended Warranty and Enhanced Service Plans
Ensure that your equipment investment is always covered. Select from an extended factory warranty or one of our many Enhanced Service Plans to meet your organizational requirements.

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

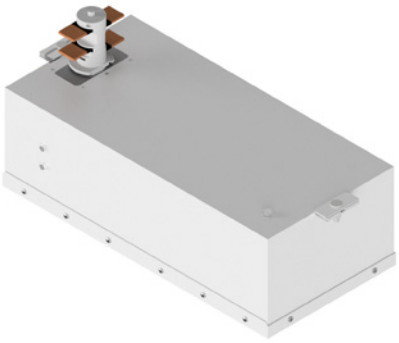
Choice of Extended Warranty or Enhanced: Silver, Gold or Platinum Service Plans	Extended 1, 2, 3, 4 years	Silver 1, 2, 3, 4 years	Gold 1, 2, 3, 4 years	Platinum 2, 3, 4 years
Repair or replacement of defective parts throughout life of service agreement	X	X	X	X
24/7 technical support hotline	X	X	X	X
Visual inspection of meters		X	X	X
Visual inspection of all joints for visible gaps		X	X	X
Update firmware and verify all Starline CPMs		X	X	X
Includes travel and expenses		X	X	X
One (1) service site visit per year		X		
Two (2) service site visits per year			X	X
Thermal imaging of all plug-in units			X	X
Thermal imaging of all Busway joints			X	X
Thermal imaging of all end feed units			X	X
Detailed and fully executed thermography report			X	X
Online portal for test reports & documentation			X	X
Spare parts inventory management program				X

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? (250, 400, 600, etc..)

2. Does the system need an internal ground?

3. Are there any limitations on the length of a run? (5 ft max, 10 ft max, 20 ft 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	M	T5	C	52	S	-	065	-	M41	S	1	-	STD	*Optional
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Current Transformer		8. Meter Release	9. Meter Options	*10. Meter Configuration		11. Paint Color	

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

M	Meter Plug

3. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)
R5	T5 System (Rotating Paddle)	**Z5**	K5 + R5

4. Ground *(ground type installed)*

C	Case (Housing) Ground

5. Box *(what size enclosure)*

01, 02, ... 99 (refer to enclosure reference **page 4.108**)

**12 and 28 boxes are currently not available*

6. Orientation *(what direction the paddle faces)*

S	Standard	**R**	Reversed

7. Current Transformer *(current rating)*

065	65 amps	**125**	125 amps
225	225 amps	**250**	250 amps
400	400 amps	**800**	800 amps
1K0	1000 amps	**1K2**	1200 amps

***M60 (DC) meters are only available with 125 and 800 amp current transducers*

8. Meter Release *(M40/M50 AC)*

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
M41	WiFi, ≤415V Y, ≤240V Δ	**M43**	No WiFi, ≤415V Y, ≤240V Δ
M45	WiFi, 600V Y, 347V Δ	**M47**	No WiFi, 600V Y, 347V Δ

8. Meter Release *(M60 DC)*

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

9. Meter Options *(M40/M50 AC)*

S	Standard	**F**	Featured (D+A)
D	Display	**E**	Enhanced (N+A)
N	(Measured) Neutral	**P**	Professional (D+N)
A	Audible Alarm	**U**	Ultimate (D+N+A)

9. Meter Options *(M60 DC)*

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

*10. Meter Configuration *(M40/M50 AC)*

1	LL power, Delta Solid Core, mV CT
2	LL power, Wye Solid Core, mV CT
3	LN power, Wye Solid Core, mV CT
4	LL power, Delta Solid Core, 5A-secondary CT
5	LL power, Wye Solid Core, 5A-secondary CT
6	LN power, Wye Solid Core, 5A-secondary CT
7	LL power, Delta Split Core, mV CT
8	LL power, Wye Split Core, mV CT
9	LN power, Wye Split Core, mV CT
K	LL power, Delta Split Core, 5A-secondary CT
L	LL power, Wye Split Core, 5A-secondary CT
M	LN power, Wye Split Core, 5A-secondary CT

*10. Meter Configuration *(M60 DC)*

1	Circuit 1 Only, Solid Core	**2**	Circuit 2 Only, Solid Core
3	Both Circuits, Solid Core		

11. Paint Color

STD	Paint Factory Silver	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

EXAMPLE

UMT5C52S-065-M43S1-STD *= US System, Meter Plug, T5 System, Case Ground, 52 Box, Standard Orientation, 65 Current Rating, M43 Meter, Standard Meter Options, LL Power, Delta Solid Core, mV CT, Painted Factory Silver*

METER BOXES: PRODUCT NUMBERS

U	B	NA	C	52	S	-	065
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Current Transformer

-	M41	S	1	-	STD	*Optional
	8. Meter Release	9. Meter Options	*10. Meter Configuration		11. Paint Color	

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

B	Meter Box

3. Compatibility *(frame compatibility)*

NA	Not Applicable

4. Ground *(ground type installed)*

C	Case (Housing) Ground

5. Box *(what size enclosure)*

01, 02, ... 99 (refer to enclosure reference **page 4.108**)

**12 and 28 boxes are currently not available*

6. Orientation *(what direction the paddle faces)*

S	Standard

7. Current Transformer *(current rating)*

065	65 amps	**125**	125 amps
225	225 amps	**250**	250 amps
400	400 amps	**800**	800 amps
1K0	1000 amps	**1K2**	1200 amps

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D	Display	**E**	Enhanced (N+A)
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A	Audible Alarm	**U**	Ultimate (D+N+A)

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D	Display (High Voltage)	**Q**	Display (48 VDC)

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*10. Meter Configuration *(M40/M50 AC)*

1	LL power, Delta Solid Core, mV CT
2	LL power, Wye Solid Core, mV CT
3	LN power, Wye Solid Core, mV CT
4	LL power, Delta Solid Core, 5A-secondary CT
5	LL power, Wye Solid Core, 5A-secondary CT
6	LN power, Wye Solid Core, 5A-secondary CT
7	LL power, Delta Split Core, mV CT
8	LL power, Wye Split Core, mV CT
9	LN power, Wye Split Core, mV CT
K	LL power, Delta Split Core, 5A-secondary CT
L	LL power, Wye Split Core, 5A-secondary CT
M	LN power, Wye Split Core, 5A-secondary CT

*10. Meter Configuration *(M60 DC)*

1	Circuit 1 Only, Solid Core	**2**	Circuit 2 Only, Solid Core
3	Both Circuits, Solid Core		

11. Paint Color

STD	Paint Factory Silver	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

EXAMPLE
UBNAC52S-065-M43S1-STD *= US System, Meter Box, Not Applicable, Case Ground, 52 Box, Standard Orientation, 65 Current Rating, M43 Meter, Standard Meter Options, LL Power, Delta Solid Core, mV CT, Painted Factory Silver*

TERMINAL BLOCK UNITS: PRODUCT NUMBERS

U	T	T5	C	52	S	-	030	-	4
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Amperage		8. Poles

-	S	N	N	-	M41	S	-	STD	*Optional
	9. Lug Options	10. Meter Location	11. Accessories		*12. Meter Release	*13. Meter Options		14. Paint Color	

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

T	Terminal Block

3. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)
R5	T5 System (Rotating Paddle)	**Z5**	K5 + R5

4. Ground *(ground type installed)*

C	Case (Housing) Ground	**D**	Dedicated Ground
G	Isolated (Separate) Ground		

5. Box *(what size enclosure)*

01, 02, ... 99 (refer to enclosure reference **page 4.108**)

6. Orientation *(what direction the paddle faces)*

S	Standard	**R**	Reversed

7. Amperage *(amperage of terminal block)*

030	30 amps	**060**	60 amps
100	100 amps	**225**	225 amps
250	250 amps	**400**	400 amps
600	600 amps		

8. Poles *(number of poles in a circuit)*

4	4 poles

9. Lug Options *(lug options)*

S	Standard	**D**	Double Lug
N	Double Neutral	**2**	2 Bolt Lug
B	Double Neutral & 2 Bolt Lug		

10. Meter Location *(location of optional meter)*

N	N/A	**L**	Left
R	Right	**B**	Bottom (Lid)

11. Accessories *(optional accessories for plugs)*

N	N/A	**R**	IR Window
F	Finger Shroud	**B**	IR Window & Finger Shroud

*12. Meter Release *(M40/M50 AC)*

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
M41	WiFi, ≤415V Y, ≤240V Δ	**M43**	No WiFi, ≤415V Y, ≤240V Δ
M45	WiFi, 600V Y, 347V Δ	**M47**	No WiFi, 600V Y, 347V Δ

*12. Meter Release *(M60 DC)*

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

*13. Meter Options *(M40/M50 AC)*

S	Standard	**F**	Featured (D+A)
D	Display	**E**	Enhanced (N+A)
N	(Measured) Neutral	**P**	Professional (D+N)
A	Audible Alarm	**U**	Ultimate (D+N+A)

*13. Meter Options *(M60 DC)*

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

14. Paint Color

STD	Paint Factory Silver	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

EXAMPLE
UTT5C27S-225-4-SBN-M47A-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, M47 Meter, Audible Alarm, Painted Factory Black*

CIRCUIT BREAKER/FUSED DISCONNECT: PRODUCT NUMBERS

U	C	T5	C	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	N	-	M51	D	-	STD	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories		*13. Meter Release	*14. Meter Options		15. Paint Color	

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

C	Circuit Breaker Unit	**F**	Fused Disconnect Unit

3. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)
R5	T5 System (Rotating Paddle)	**Z5**	K5 + R5

4. Ground *(ground type installed)*

C	Case (Housing) Ground	**D**	Dedicated Ground
G	Isolated (Separate) Ground		

5. Box *(what size enclosure)*

01, 02, ... 99 (refer to enclosure reference **page 4.108**)

6. Orientation *(what direction the paddle faces)*

S	Standard	**R**	Reversed

7. Interrupt Rating *(interrupt rating of the breakers in K)*

10, 4, 22, 25, 30, 35, 50, 65, CC (CC = 200,000) *(for US)*

8. Device Quantity *(quantity of device 1)*

1, 2, 3, 4, 5, 6, 7, 8, 9

9. Device *(standard name for device 1)*

AA, AB, ...ZZ (refer to device codes **page 4.113**)

*10. Mount Location *(with respect to busway polarizing stripe)*

F	Front	**A**	Back
T	Top	**B**	Bottom
L	Left	**R**	Right

(Not every mount location will be available for every box)

*11. Drop Cord Length *(length of drop cord)*

XXY	XX=feet, YY=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)

12. Accessories *(optional accessories for plugs)*

N	N/A	**F**	Finger Shroud
C	Circuit Breaker Interlock	**P**	Padlock Adapter for Circuit Breaker
S	Seismic Hanger	**R**	IR Window

*13. Meter Release *(M40/M50 AC)*

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
M41	WiFi, ≤415V Y, ≤240V Δ	**M43**	No WiFi, ≤415V Y, ≤240V Δ
M45	WiFi, 600V Y, 347V Δ	**M47**	No WiFi, 600V Y, 347V Δ
M56	Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ, Breaker Monitoring	**M57**	Dual Eth, Breaker Monitoring ≤480V Y, ≤277V Δ

*13. Meter Release *(M60 DC)*

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

*14. Meter Options *(M40/M50 AC)*

S	Standard	**F**	Featured (D+A)
D	Display	**E**	Enhanced (N+A)
N	(Measured) Neutral	**P**	Professional (D+N)
A	Audible Alarm	**U**	Ultimate (D+N+A)

*14. Meter Options *(M60 DC)*

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

15. Paint Color

STD	Paint Factory Silver	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

EXAMPLE
UCT5D57S-25-2CDB0100N-M53D-STD *= 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, M53 Meter, with Display, Painted Factory Silver*

CIRCUIT BREAKER/FUSED DISCONNECT: COMPATIBILITY

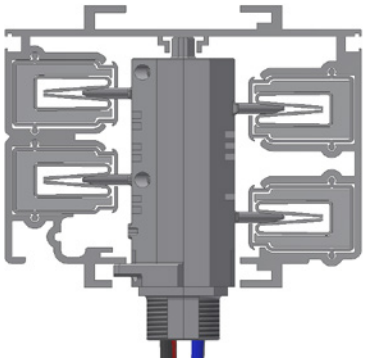
U	C	T5	C	52	S	-	14	-	1
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Interrupt Rating		8. Device Quantity

AA	F	010	N	-	M51	D	-	STD	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories		**13. Meter Release	**14. Meter Options		15. Paint Color	

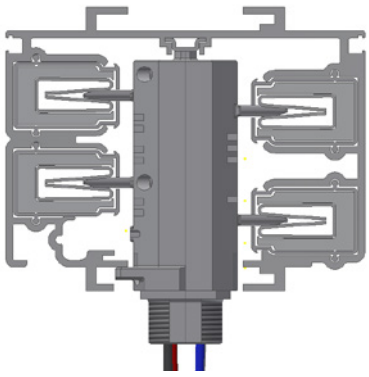
3. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)
R5	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.



T5



K5

R5- top view

R5- bottom view

**For rotating paddle systems (R5), an installation tool must be ordered.*
Part Number
SR5IT

CIRCUIT BREAKER/FUSED DISCONNECT: GROUND

U	C	T5	C	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	N	-	M51	D	-	STD	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories		*13. Meter Release	*14. Meter Options		15. Paint Color	

4. Ground *(ground type installed)*

C	Case (Housing) Ground	**D**	Dedicated Ground
G	Isolated (Separate) Ground		

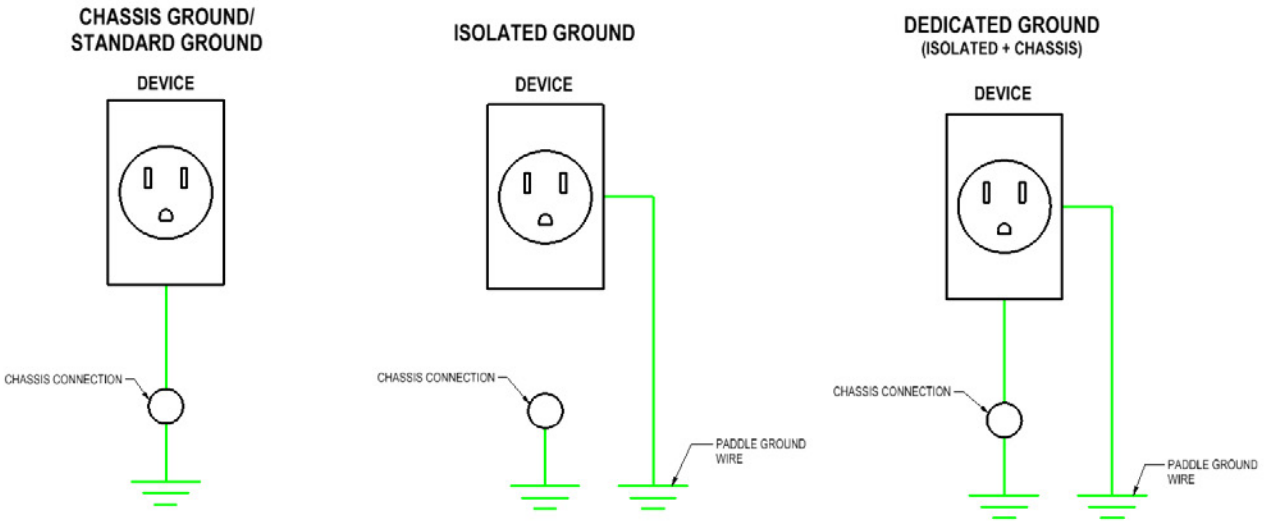
In option 4. you are asked to specify what type of ground you would like: case, dedicated or isolated.

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.

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

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/**

CIRCUIT BREAKER/FUSED DISCONNECT: BOX

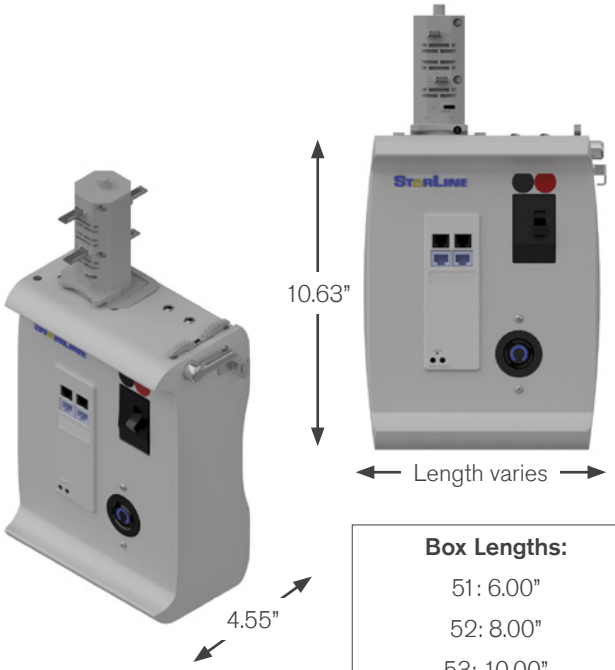
U	C	T5	C	52	S	-	14	-	1
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Interrupt Rating		8. Device Quantity

AA	F	010	N	-	M51	D	-	STD	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories		*13. Meter Release	*14. Meter Options		15. Paint Color	

5. Box *(what size enclosure)*
01, 02, … 99 (refer to enclosure reference **page 4.108**)

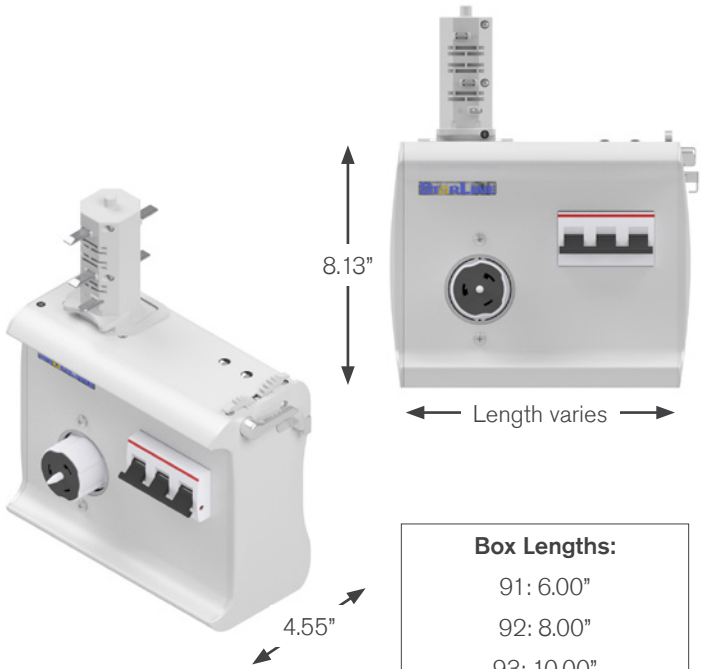
In option 5. you are asked to specify what style enclosure you would like. Size is typically a result of the options and features that you choose. A few common enclosure sizes for T5 busway systems are shown below:

50 Series



Box Lengths:
51: 6.00"
52: 8.00"
53: 10.00"
54: 12.00"
55: 13.00"
56: 15.00"
57: 18.00"

90 Series



Box Lengths:
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 4.108**

CIRCUIT BREAKER/FUSED DISCONNECT: INTERRUPT RATING

U	C	T5	C	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	N	-	M51	D	-	STD	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories		*13. Meter Release	*14. Meter Options		15. Paint Color	

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

U	C	T5	C	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	N	-	M51	D	-	STD	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories		*13. Meter Release	*14. Meter Options		15. Paint Color	

9. Device *(standard name for device 1)*
AA, AB, ...ZZ (refer to device codes **page 4.113**)

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-1AC**FN-M51D-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.

UCT5C53S-22-3AIFN-STD

MCT5C53S-14-1FOFN-M59S-STD

UCT5D92S-22-2BGB(XXX)N-STD

UFT5C93R-CC-1EYB(XXX)N-V59S-STD

*For the full list of all device codes, please refer to **page 4.113**

CIRCUIT BREAKER/FUSED DISCONNECT: MOUNT LOCATION

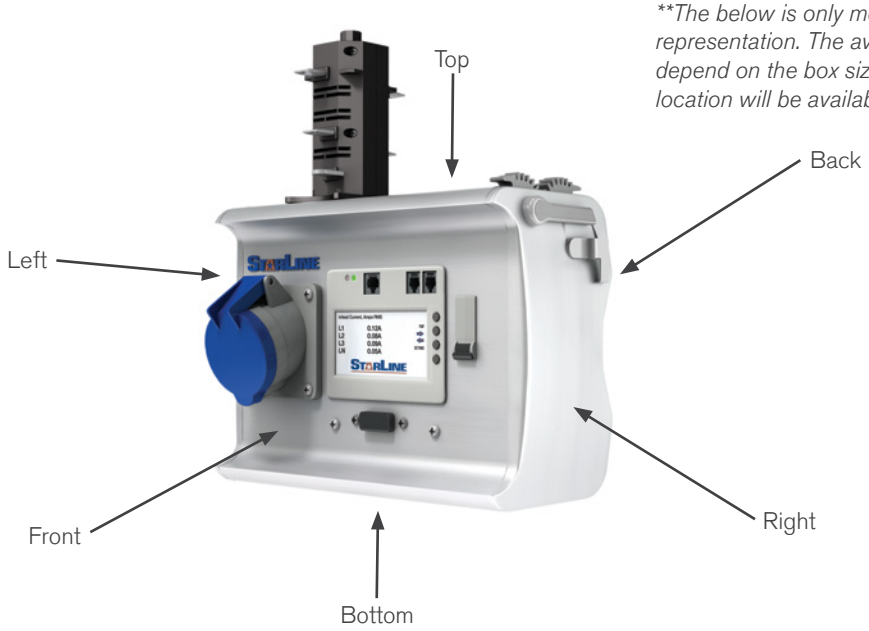
U	C	T5	C	52	S	-	14	-	1
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Interrupt Rating		8. Device Quantity

AA	F	010	N	-	M51	D	-	STD	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories		*13. Meter Release	*14. Meter Options		15. Paint Color	

*10. Mount Location *(location with respect to polarizing stripe)*			
F	Front	**A**	Back
T	Top	**B**	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.



***The below is only meant for visual representation. The available mount locations depend on the box size used. Not every mount location will be available for every box.*

CIRCUIT BREAKER/FUSED DISCONNECT: ACCESSORIES

U	C	T5	C	52	S	-	14	-	1
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Interrupt Rating		8. Device Quantity

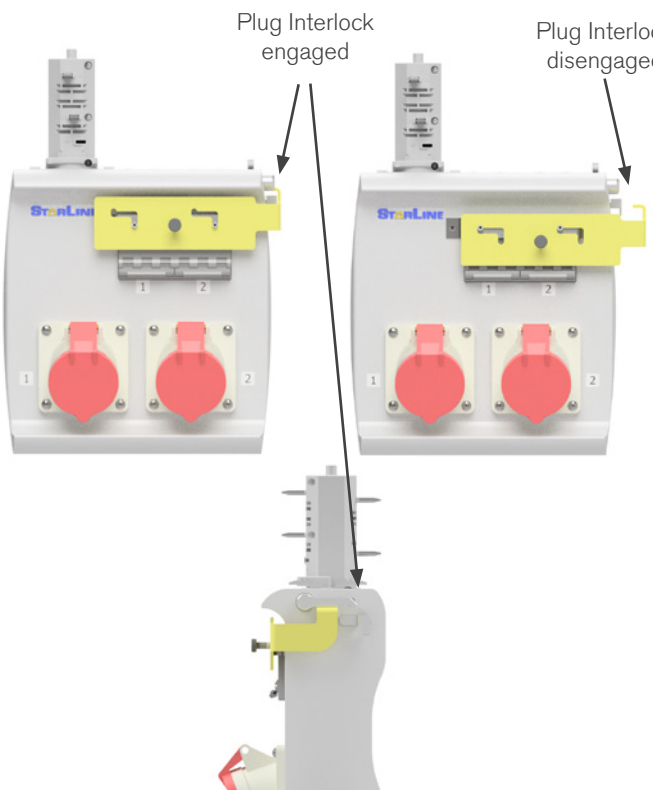
AA	F	010	N	-	M51	D	-	STD	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories		*13. Meter Release	*14. Meter Options		15. Paint Color	

12. Accessories *(optional accessories for plugs)*

N	N/A	**F**	Finger Shroud
C	Circuit Breaker Interlock	**P**	Padlock Adapter for Circuit Breaker
S	Seismic Hanger	**R**	IR Window

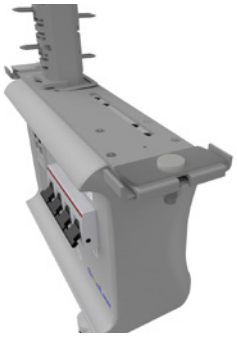
In option 12. you have the option to choose an accessory. Please see examples below. The Circuit Breaker Interlock is a device that prevents disengaging the plug from the busway. The Finger Shroud goes over top of your breakers, preventing accidental on or off motions. The Padlock Adapter for Circuit Breaker is the option for breaker lock-ont. The Seismic Hanger is required for use in seismic applications and can only be used in conjunction with 250T5, 400T5, and 600T5 systems.

Circuit Breaker Interlock



Finger Shroud

Seismic Hanger



Padlock Adapter for Circuit Breaker Lock-ont

IR Window

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

U	C	T5	C	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	N	-	M51	D	-	STD	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories		*13. Meter Release	*14. Meter Options		15. Paint Color	

***13. Meter Release** *(M40/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
V51	Single Eth./WiFi, ≤480V Y, ≤277V Δ	**V53**	Single Eth./No WiFi, ≤480V Y, ≤277V Δ
V58	Dual Eth., ≤480V Y, ≤277V Δ	**V59**	Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ
M41	WiFi, ≤415V Y, ≤240V Δ	**M43**	No WiFi, ≤415V Y, ≤240V Δ
M45	WiFi, 600V Y, 347V Δ	**M47**	No WiFi, 600V Y, 347V Δ
M56	Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ, Breaker Monitoring	**V56**	Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ, Breaker Monitoring
M57	Dual Eth, Breaker Monitoring ≤480V Y, ≤277V Δ	**V57**	Dual Eth, Breaker Monitoring ≤480V Y, ≤277V Δ

***14. Meter Options**

S	Standard	**D**	Display

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 (No Display)

Critical Power Monitor with Optional Display

Single Ethernet w/ Wi-Fi	*Single Ethernet*	*Dual Ethernet*	*Dual Modbus Dual Ethernet*
M/V51	***M/V53***	***M/V58***	***M/V59***

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

U	C	T5	C	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	N	-	M61	D	-	STD	*Optional
9. Device	*10. Mount Location	*11. Drop Cord Length	12. Accessories		*13. Meter Release	*14. Meter Options		16. Paint Color	

***13. Meter Release** *(M60 DC)*

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

***14. Meter Options** *(M60 DC)*

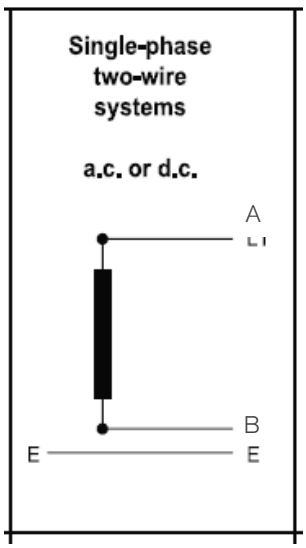
S	Standard (High Voltage)	**P**	Standard (48 VDC)
D	Display (High Voltage)	**Q**	Display (48 VDC)

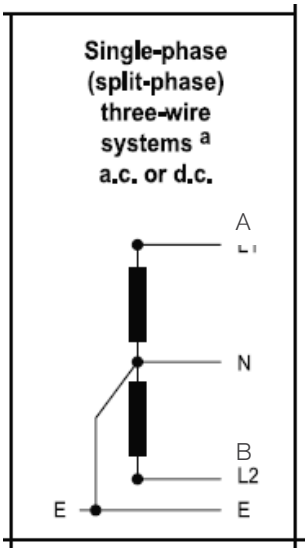
M60 Meters support: High Voltage: 120 to 300 VDC/Split Phase 120 VDC (+/-60) to 380 VDC (+/-180) OR Low Voltage: 48 VDC

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

U	C	T5	C	52	S	-	14	-
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Interrupt Rating	

2	030	3	480	050	5	N	-	M59	D	-	STD	*Optional
8. Circuit Protection Quantity	9. Amperage	10. Poles	11. Voltage	*12. Drop Cord Length	*13. Number of Wires	14. Accessories		15. Meter	16. Meter Options		17. Paint Color	

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

C	Circuit Breaker Unit	**F**	Fused Disconnect Unit

3. Compatibility *(frame compatibility)*

T5	T5 System	**K5**	T5 System (Limiting Strip)
R5	T5 System (Rotating Paddle)	**Z5**	K5 + R5

4. Ground *(ground type installed)*

C	Case (Housing) Ground	**D**	Dedicated Ground
G	Isolated (Separate) Ground		

5. Box *(what size enclosure)*

01, 02, ... 99 (refer to enclosure reference **page 4.108**)

6. Orientation *(what direction the paddle faces)*

S	Standard	**R**	Reversed

7. Interrupt Rating *(interrupt rating of the breakers in K)*

10, 14, 22, 25, 30, 35, 50, 65, CC (CC = 200,000) *(for US)*

8. Circuit Protection Quantity

1, 2, 3, 4, 5, 6

9. Amperage

015, 020, 030, 600

10. Poles *(number of poles in circuit)*

1, 2, 3, 4, 5

11. Voltage

120, 240, 277, 300, 415, 480, 600

*12. Drop Cord Length *(length of drop cord)*

0100	1 foot	**XXYY**	XX=feet, YY=inches

(only can be chosen in 6" and .5 meter increments) For any device configuration chosen over 70 amps, the max. drop cord length is 10 feet (100)

*13. Number of Wires *(in drop cord)*

2, 3, 4, 5

14. Accessories *(optional accessories for plugs)*

N	N/A	**F**	Finger Shroud
C	Circuit Breaker Interlock	**P**	Padlock Adapter for Circuit Breaker
S	Seismic Hanger	**R**	IR Window

15. Meter

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
M41	WiFi, ≤415V Y, ≤240V Δ	**M43**	No WiFi, ≤415V Y, ≤240V Δ
M45	WiFi, 600V Y, 347V Δ	**M47**	No WiFi, 600V Y, 347V Δ
M56	Dual Eth/Dual Modbus, ≤480V Y, ≤277V Δ, Breaker Monitoring	**M57**	Dual Eth, Breaker Monitoring ≤480V Y, ≤277V Δ

16. Meter Options *(M40/M50 AC)*

S	Standard	**F**	Featured (D+A)
D	Display	**E**	Enhanced (N+A)
N	(Measured) Neutral	**P**	Professional (D+N)
A	Audible Alarm	**U**	Ultimate (D+N+A)

*16. Meter Options *(M60 DC)*

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

17. Paint Color

STD	Paint Factory Silver	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

EXAMPLE
UCT5D57S-25-203034800505N-M59D-STD *= 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, M53 meter, painted factory silver*

CORDED METERS

U	CCPM	M	51	S	1	-	L515	C	-	XXXX	-	C	-	BLK
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		9. Length		10. Meter Location on the Cord		11. Paint Color

1. System *(standard of measure)*

U	US

2. Product Type *(section component)*

CCPM	Corded CPM

3. Monitoring Compatibilities

M	Paddle/Feed Monitoring

4. Meter Features

51	Single Ethernet WiFi	**53**	Single Ethernet
58	Dual Ethernet	**59**	Dual Ethernet, Modbus

5. Meter Variations

S	Standard Unit	**D**	Display

6. System Voltage

1	Line-Line	**3**	Line-Neutral

7. Wiring Device or Cord Set

Options listed on **page 4.107**

8. Device Style

C	Connector Body	**R**	Receptacle
D	Duplex	**Q**	Quad Receptacle

9. Length *(end to end)*

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 increments of 1 foot)

10. Meter Location on the Cord

C	Center	**T**	Top
B	Bottom		

11. Paint Color

STD	Paint Factory Silver	**RED**	Paint Factory Red
BLK	Paint Factory Black	**BLU**	Paint Factory Blue
WHT	Paint Factory White	****RAL (please see page 4.80)**	

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 foot 8 inches from the end of the connector.

UCCPM-M51D1-L515C-XXXX-T-STD

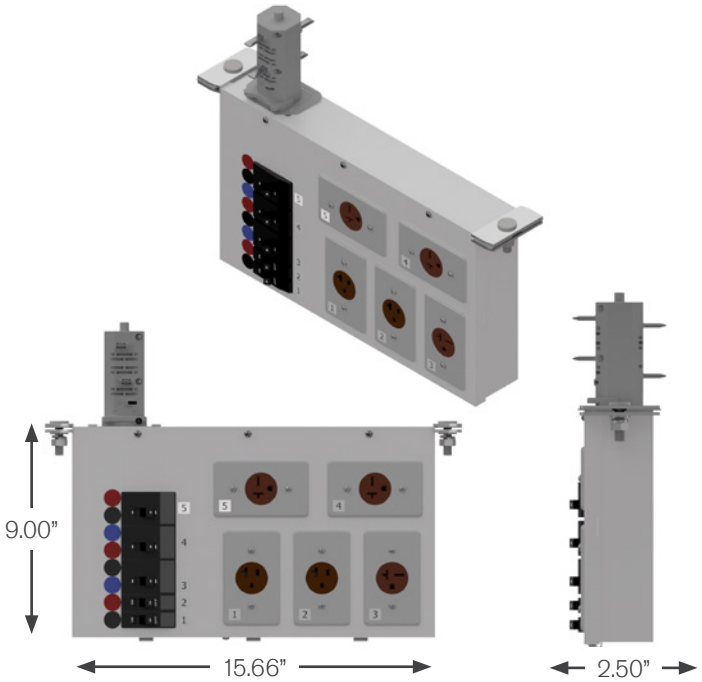
WIRING DEVICE/CORD SET OPTIONS

AC NEMA/IEC Name	Voltage	Current
CS6360C	125V	50
CS6364C	125/250V	50
CS8264C	250V	50
CS8364C	250V	50
CS8164C	480V	50
CS8464C	480V	50
515D	125V	15
515	125V	15
520D	125V	20
520	125V	20
530	125V	30
615D	250V	15
615	250V	15
620D	250V	20
620	250V	20
630	250V	30
L1420	125/250V	20
L1430	125/250V	30
L1520	250V	20
L1530	250V	30
L1620	480V	20
L1630	480V	30
L2120	120/208V	20
L2130	120/208V	30
L2220	277/480V	20
L2230	277/480V	30
L2320	347/600V	20
L2330	347/600V	30
L515	125V	15
L520	125V	20
L530	125V	30
L615	250V	15
L620	250V	20
L630	250V	30
L715	277V	15
L720	277V	20
L730	277V	30
L820	480V	20
L830	480V	30
316C4S	110V	16
332C4S	110V	32
363C4S	110V	63
320C4S	125V	20
330C4S	125V	30
360C4S	125V	60
520C9W	120/208V	20
530C9W	120/208V	30
560C9W	120/208V	60
316C6S	230V	16
332C6S	230V	32
363C6S	230V	63
420C12W	125/250V	20
430C12W	125/250V	30
460C12W	125/250V	60
320C6W	250V	20
330C6W	250V	30
360C6W	250V	60
320C5W	277V	20
330C5W	277V	30
360C5W	277V	60
416C4S	110V	16
432C4S	110V	32
463C4S	110V	63
416C9S	230V	16
432C9S	230V	32
463C9S	230V	63
420C9S	250V	20
430C9S	250V	30
460C9S	250V	60
416C6S	415V	16
432C6S	415V	32
463C6S	415V	63
420C7S	480V	20
430C7S	480V	30
460C7S	480V	60
516C6S	230/400V	16
532C6S	230/400V	32
563C6S	230/400V	63
316C9S	415V	16
332C9S	415V	32
363C9S	415V	63
520C7S	277/480V	20
530C7S	277/480V	30
560C7S	277/480V	60
320C7W	480V	20
330C7W	480V	30
360C7W	480V	60
15A-300V	300V	15
16A-300V	300V	16
20A-300V	300V	20
30A-300V	300V	30
32A-300V	300V	32
50A-300V	300V	50
60A-300V	300V	60
63A-300V	300V	63
15A-480V	480V	15
16A-480V	480V	16
20A-480V	480V	20
30A-480V	480V	30
32A-480V	480V	32
50A-480V	480V	50
60A-480V	480V	60
63A-480V	480V	63

BOX SIZES & STYLES

12

25



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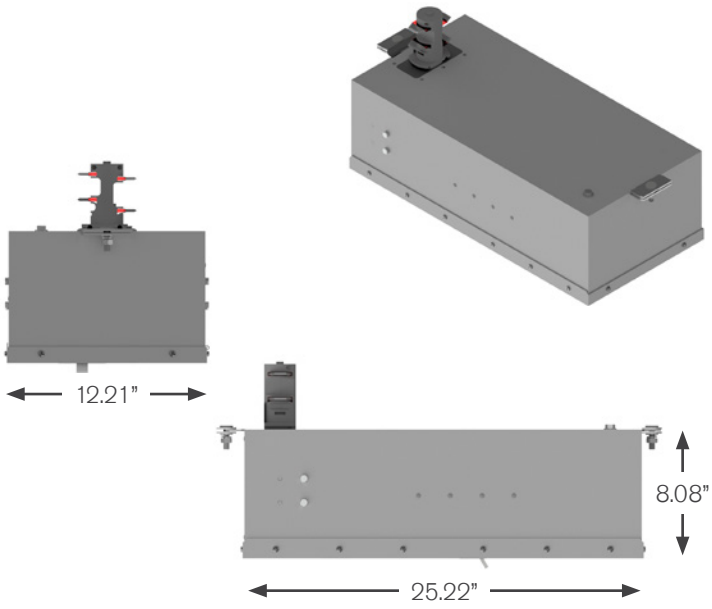

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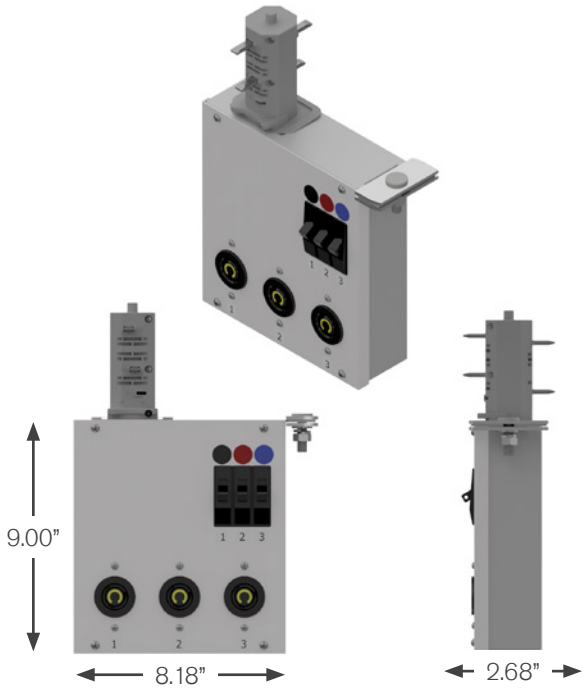
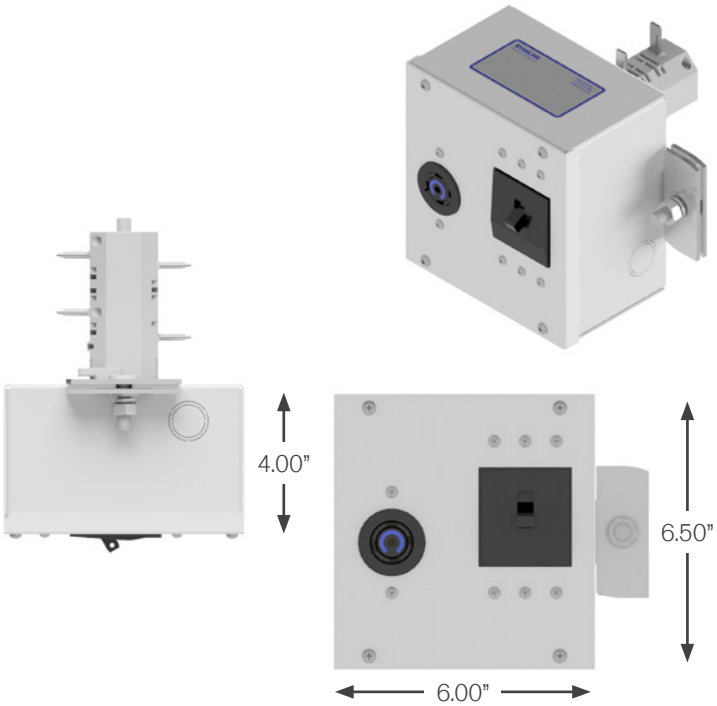


BOX SIZES & STYLES

30



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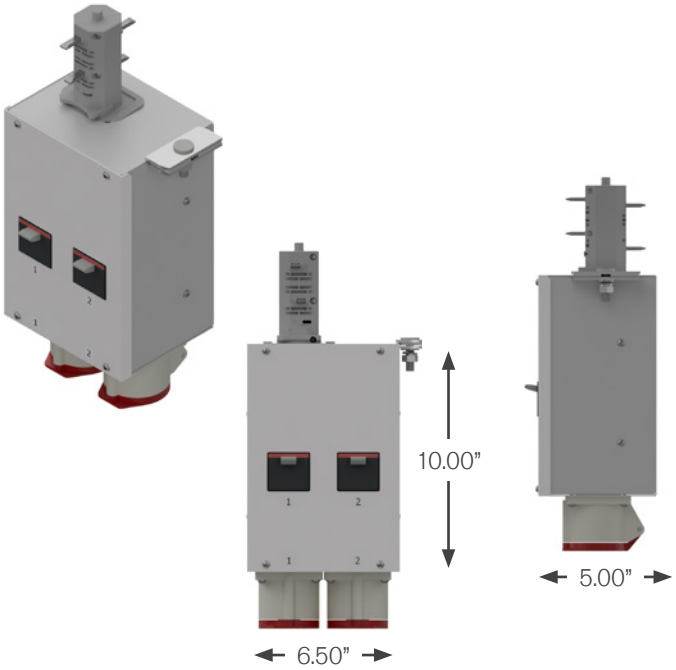
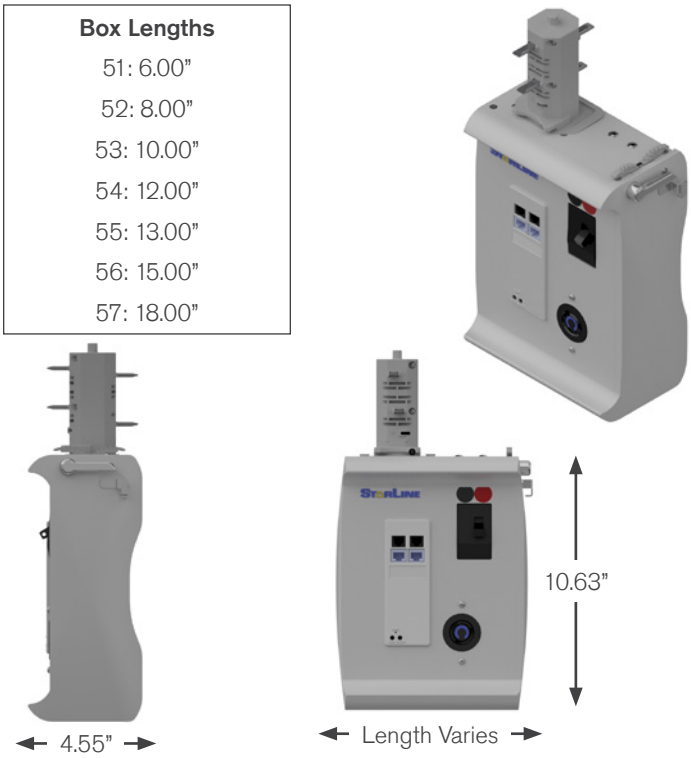


50

Box Lengths

51: 6.00”
52: 8.00”
53: 10.00”
54: 12.00”
55: 13.00”
56: 15.00”
57: 18.00”



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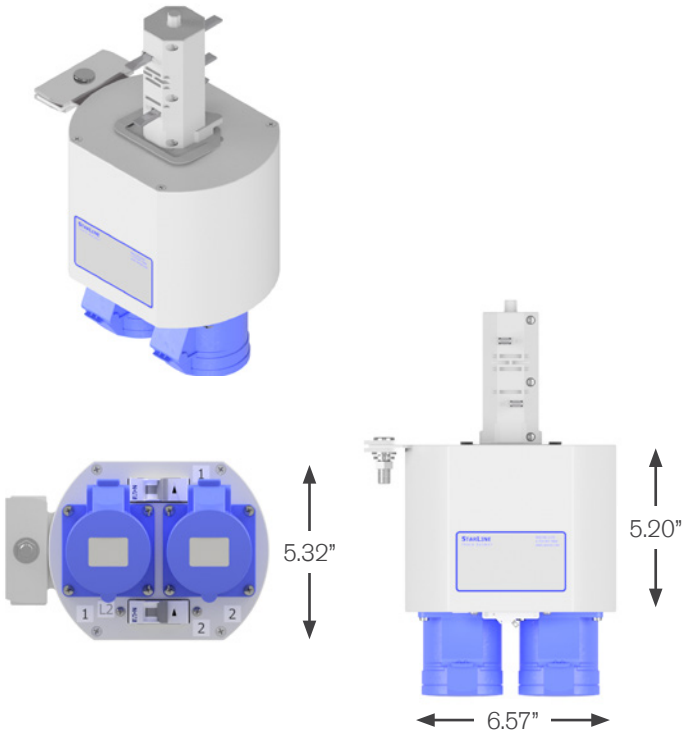
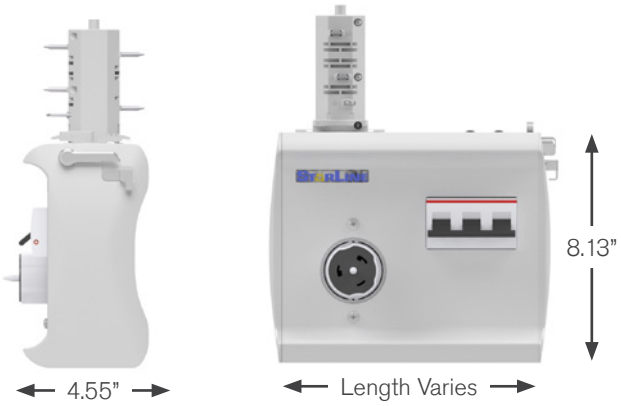


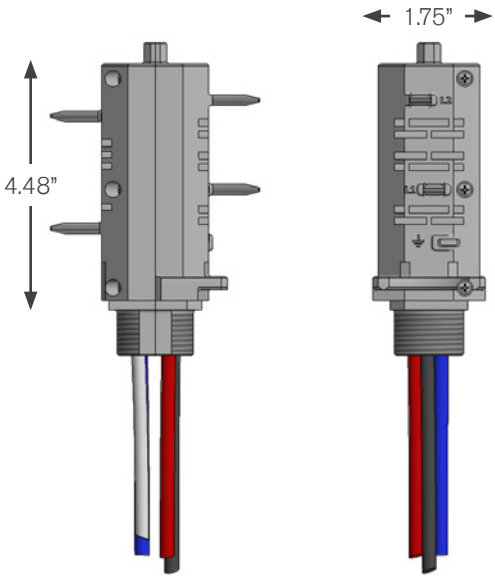
BOX SIZES & STYLES

90

Box Lengths
91: 6.00”
92: 8.00”
93: 10.00”
94: 12.00”
95: 13.00”
96: 15.00”
97: 18.00”



T5 Paddle

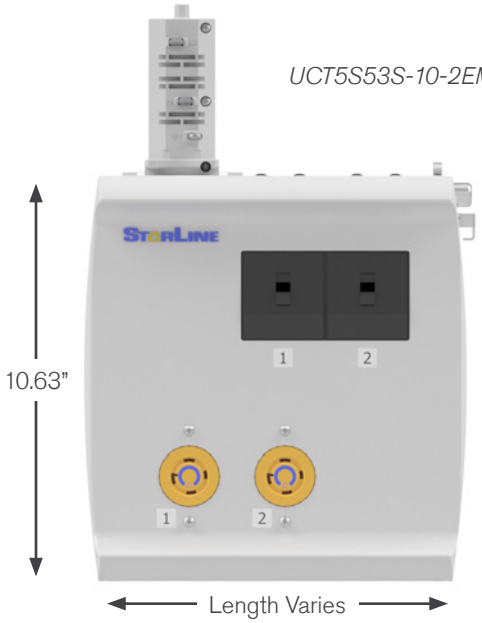


50 SERIES ENCLOSURE CUT SHEET

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*

UCT5S53S-10-2EMFN-STD



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*

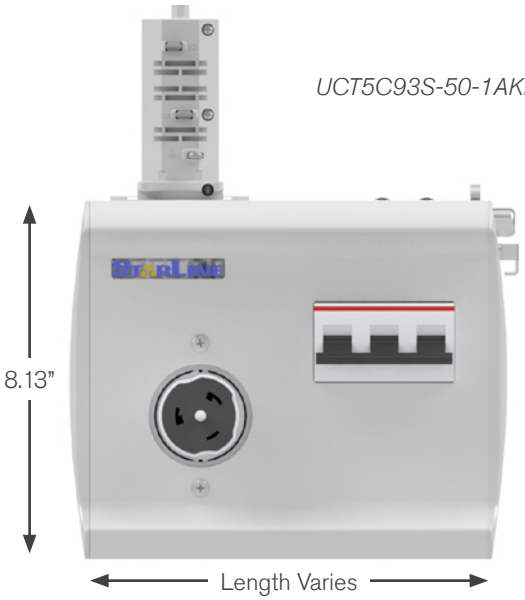
UCT5G53S-10-2EMFN-STD *= US, Circuit Breaker Plug, T5 Systems, Isolated (Separate) Ground, 53 Box, Standard Orientation, 10 Interrupt Rating, 2 Devices, IGL15-30, Front Located, No Accessories, Painted Factory Silver*

90 SERIES ENCLOSURE CUT SHEET

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*

UCT5C93S-50-1AKFN-STD



Box Lengths
91: 6.00”
92: 8.00”
93: 10.00”
94: 12.00”
95: 13.00”
96: 15.00”
97: 18.00”

EXAMPLES

UCT5C93S-50-1AKFN-STD *= 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*

UCT5C94S-10-2BGB050F-STD *= 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

Device Code	Device Designation	Type	Voltage	Wiring Configuration
NEMA Connectors				
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
CO	L14-20C	Connector	120/208	2PNG
CN	L14-30C	Connector	120/208	2PNG
CM	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
CT	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
CK	L7-15C	Connector	277	1PNG
CJ	L7-20C	Connector	277	1PNG
CF	L7-30C	Connector	277	1PNG
Pin & Sleeve Connectors				
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

Wiring Configuration Reference Table

1 = Number of poles

P = Poles

N = Neutral

G = Ground

DEVICE CODE TABLE

Device Code	Device Designation	Type	Voltage	Wiring Configuration
Pin & Sleeve Connectors (Continued)				
CH	530C7S	Connector	480	3PNG
BI	530C9W	Connector	240/415	3PNG
CB	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
NEMA Receptacles				
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
CX	L15-20R	Receptacle	240	3PG
AH	L15-30R	Receptacle	240	3PG
EO	L16-20R	Receptacle	480	3PG

Wiring Configuration Reference Table

1 = Number of poles

P = Poles

N = Neutral

G = Ground

DEVICE CODE TABLE

Device Code	Device Designation	Type	Voltage	Wiring Configuration
NEMA Receptacles (Continued)				
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
Pin & Sleeve Receptacles				
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

Wiring Configuration Reference Table

1 = Number of poles

P = Poles

N = Neutral

G = Ground

DEVICE CODE TABLE

Device Code	Device Designation	Type	Voltage	Wiring Configuration
Pin & Sleeve Receptacles (Continued)				
BY	560R6S	Receptacle	240/415	3PNG
DS	360C4W	Receptacle	120	1PNG
Isolated Ground Receptacles				
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	2PG
DX	IGL6-15R	Receptacle	240	2PG
AM	IGL6-20R	Receptacle	240	2PG
AZ	IGL6-30R	Receptacle	240	2PG
California Connectors				
CP	CS6360C	Connector	120	1PNG
CG	CS8164C	Connector	480	3PG
CR	CS8264C	Connector	240	2PG
CQ	CS8364C	Connector	240	3PG
California Receptacles				
DK	CS6369	Receptacle	120/208	2PNG
DE	CS8269	Receptacle	240	2PG
AK	CS8369	Receptacle	240	3PG
Other				
XX	Custom Device (ex: colored receptacle, etc.)			

Wiring Configuration Reference Table

1 = Number of poles

P = Poles

N = Neutral

G = Ground

Starline, a brand of Legrand, has been a leader in power distribution since 1924. The company's founders led the way for many new technologies in the power distribution equipment industry. Today, Starline continues to pave the way for safer, more innovative and more reliable electrical power distribution systems. Visit **StarlinePower.com** to learn more about our flexible power solutions.

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