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Starline®
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Track Busway Product Selection Guide

T3-T5 METRIC & GLOBAL SYSTEMS

T3-T5 SERIES

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160 & 225 Amps3 - 3.69

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250, 400, 630, 800, 1000, 1250 Amps4 - 4.118

T3 SERIES

T3 SPECS & INTRODUCTION

SPECS

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

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

IEC 61439-1, 61439-6

CCC GB7251.1-2013

CCC GB7251.6-2015

CSA C22.2 No. 27

NMX-J-148-1998-ANCE

UL 857, Ed. 13

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 industries with Starline Track Busway. This system was designed to meet the rugged specification of IEC 61439, General Rules & Busway Trunking Systems, with the flexible features of track lighting - and is available in systems with 160 & 225 amps with case, dedicated or isolated earth.

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.

T3 SERIES

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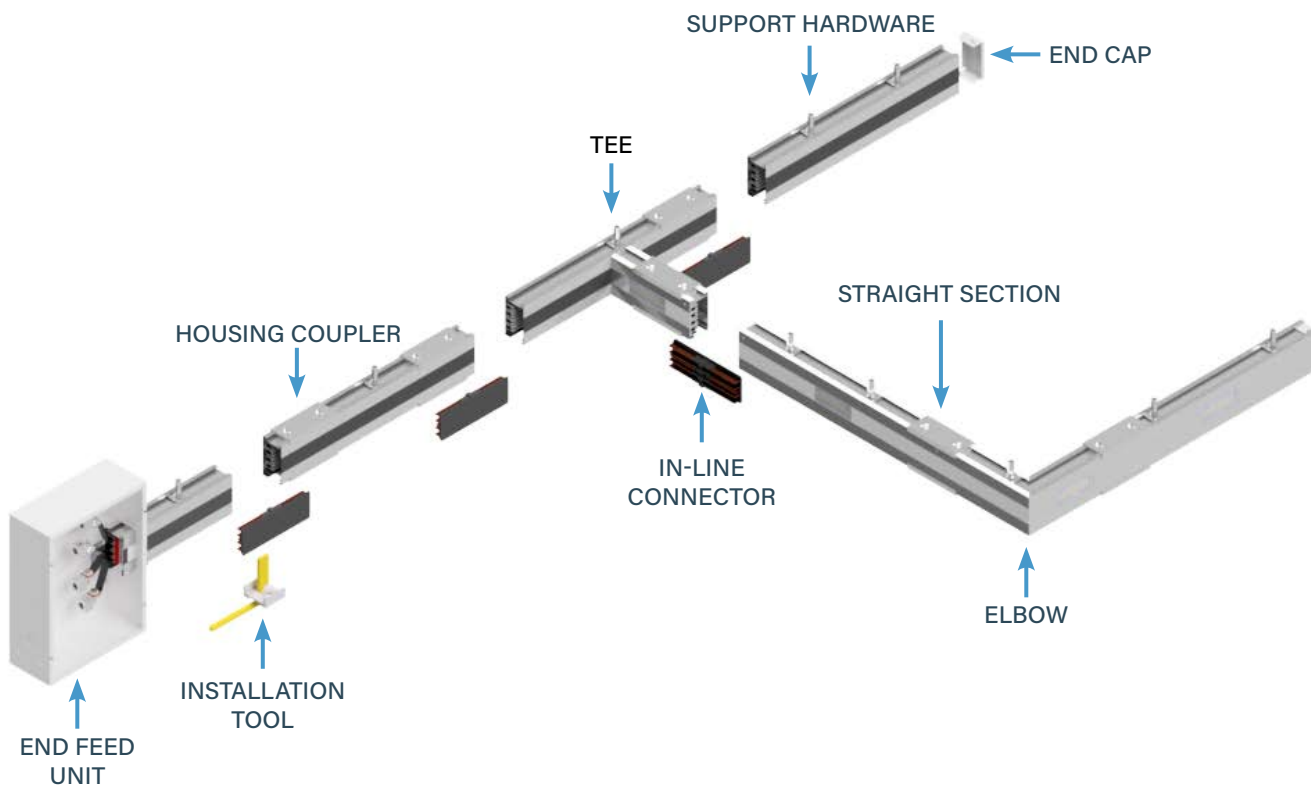
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T3 SERIES

SYSTEM LAYOUT DRAWING



PLUG-IN UNITS

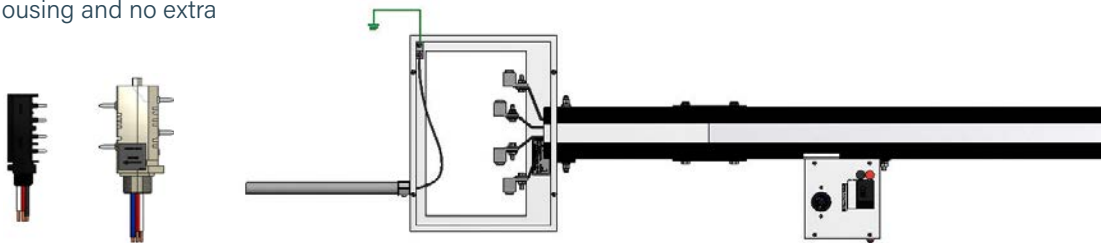
For further information on applicable T3 plug-in unit options, please consult the factory.

T3 SERIES

GROUND OPTIONS

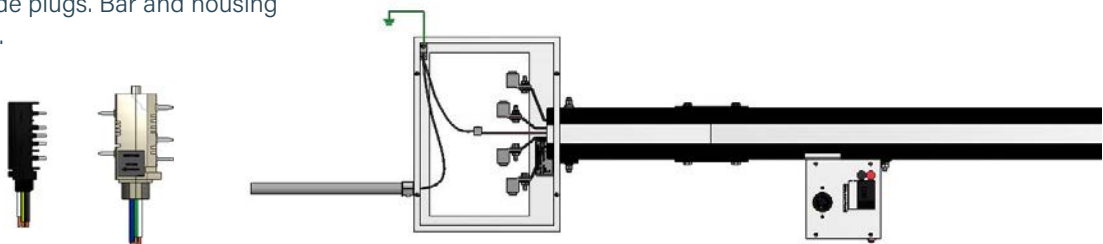
■ CASE GROUND/CHASSIS EARTH

Uses aluminum housing and no extra copper bar.



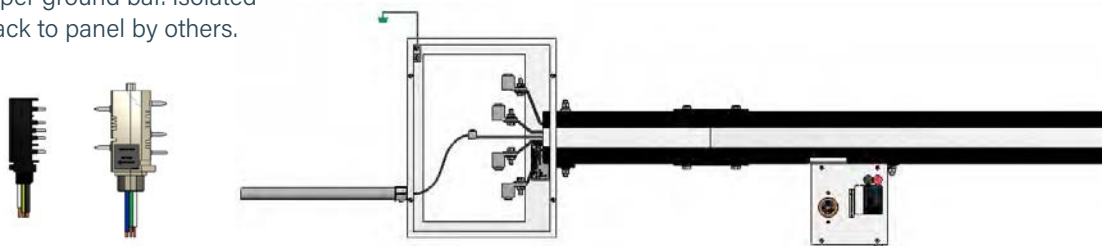
■ DEDICATED GROUND/EARTH

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

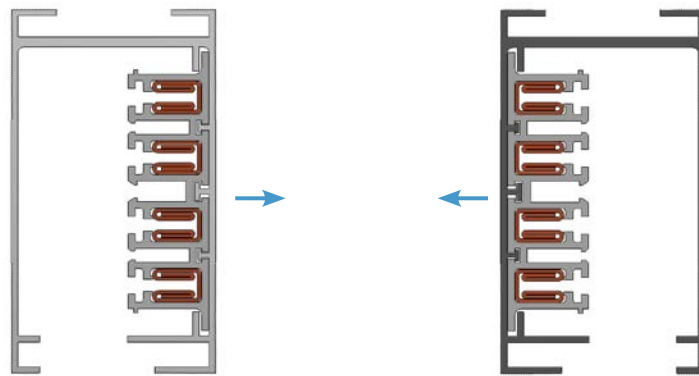
T3 SERIES

POLARITY TIPS

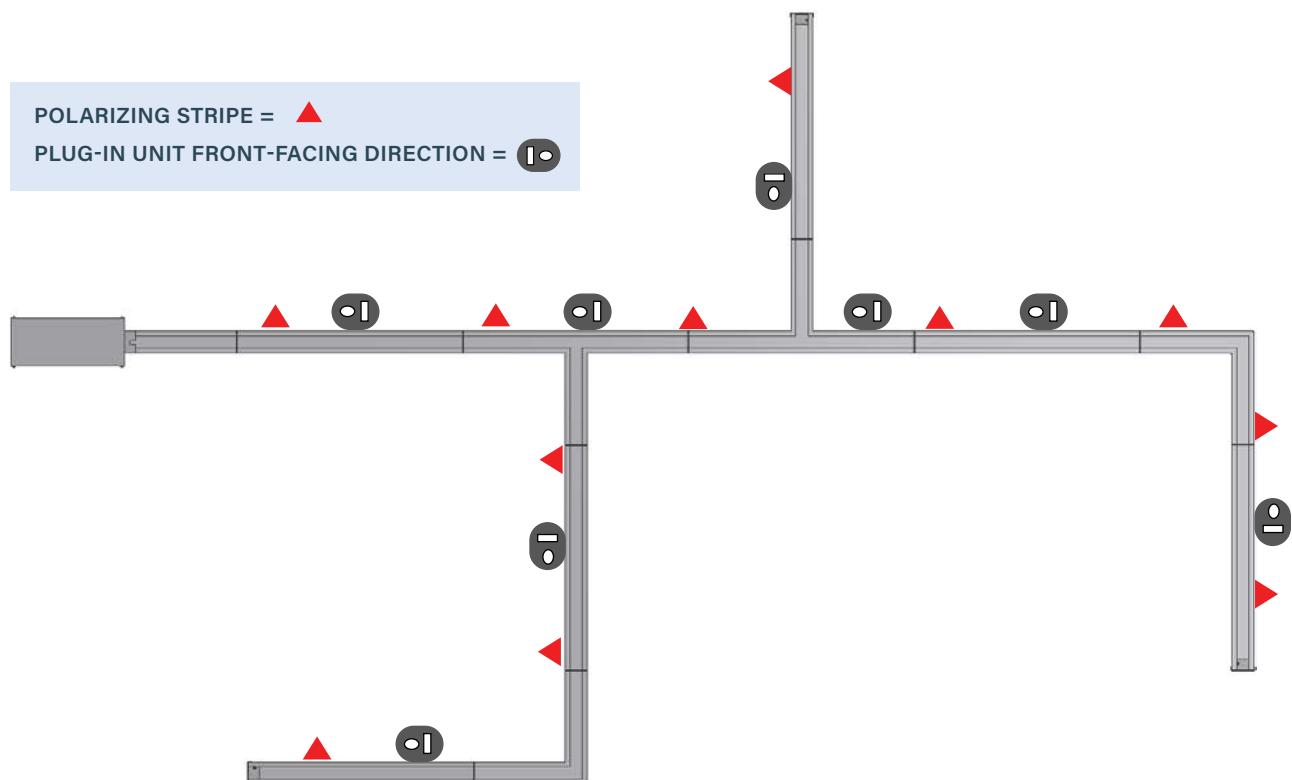
Starline utilizes a unique polarizing method to prevent mismatched components from being inadvertently connected to each other. The system is designed to prevent cross phasing during installation.

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

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



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



T3 SERIES

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 3 meters apart. Refer to **page 3.37** 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/busway**. CAD files of these drawings are also available by contacting your local Starline applications engineer.

BUSWAY HOUSING SECTIONS

Standard Busway lengths are available in 1.5 meter, 3 meter and 6 meter increments. Although the factory can cut individual Starline Track Busway sections to any length under 6 meters, it is highly recommended to keep all layout runs in increments of 1.5 meters to simplify layout and installation. Custom lengths can be made but can increase lead time and make layout and installation a bit more complex.

BUSWAY TEES AND ELBOWS SECTIONS

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

T3 SERIES

COMPONENT RELATIONSHIP TIPS

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

EXAMPLES

- Each piece of housing (*straights and elbows*) requires a joint kit (*containing two housing couplers and one bus connector*). Determine the total number of housing sections (*regardless of length*) as this becomes the number of joint kits that will be needed.
 - Add one extra joint kit for each tee section
- If this is your first installation for 160T3 or 225T3 systems, you will need to order an installation tool (ST3IT).

GENERAL SUPPORT HARDWARE RULE TO FOLLOW:

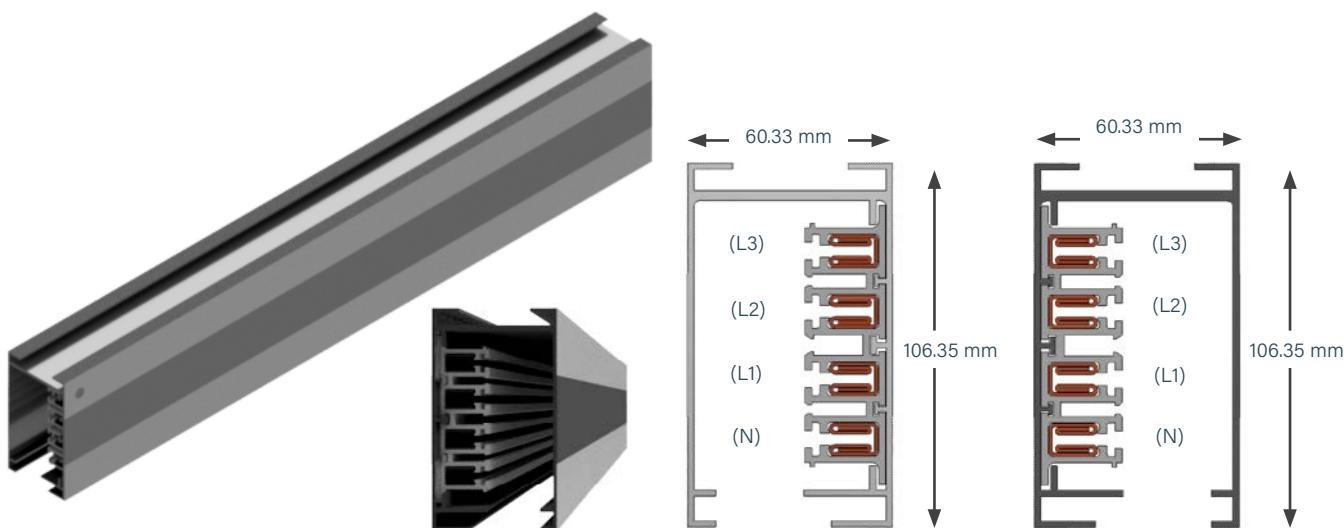
- 3 meter maximum spacing between supports and we recommend 10% more than the required quantity to cover potential layout changes.
- Total power feeds and end caps can be determined by counting the total number of unconnected runs.
- Before specifying or ordering elbow or tee connectors, it is important to understand polarity and the relationship to direction of outlets. Please refer to **page 3.5** Polarity Tips for more detail.

160T3 SYSTEMS

STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight sections consist of an extruded aluminum shell with channel type solid copper busbars contained in a full length insulator mounted on one side of the interior wall. Each straight has an open access slot over its entire length for the insertion of turn-n-lock plug-in units. Housing configuration is 4 pole, 415 Volt. Busway joint connections are made using a joint kit, which includes a housing coupler and bus connector. An installation tool is used to insert the bus connector in between the busbar channels of the two sections for a solid spring-tempered electrical connection. A housing coupler is then used to make a solid mechanical connection.



MATERIAL

Extruded Aluminum

RATINGS

100% Protective Earth
160 Amp, 415 Volt

LENGTH

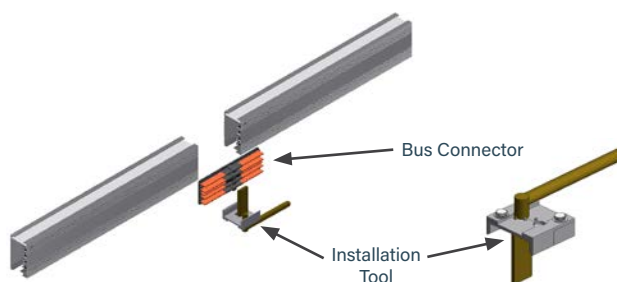
1.5 m, 3 m, 6 m; or custom lengths between 1.5 - 6 m

WEIGHT

3m 4 pole: 11.8 kg
3m 4 pole w/ ground: 13.6 kg
3m 4 pole w/ 200% N: 15 kg
3m 4 pole w/ ground & 200% N: 15.4 kg

METRIC

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



160T3 SYSTEMS

STRAIGHT SECTIONS: PRODUCT NUMBERS

M	S	160	T3	C	4	S	-	M030	C
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Straight Length	9. Busway Access

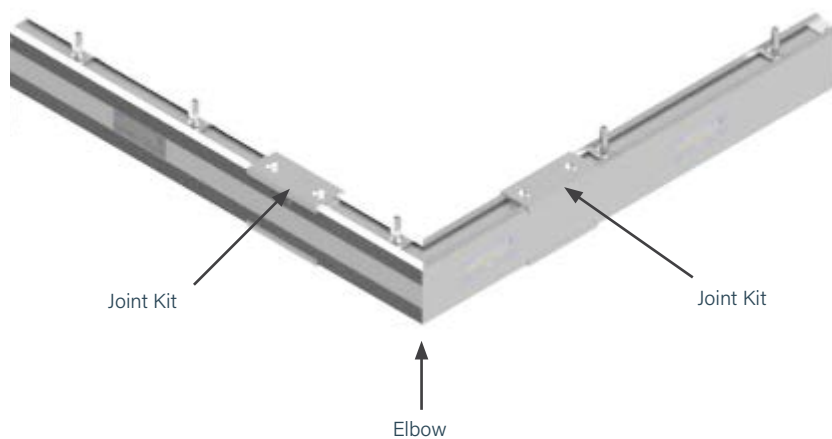
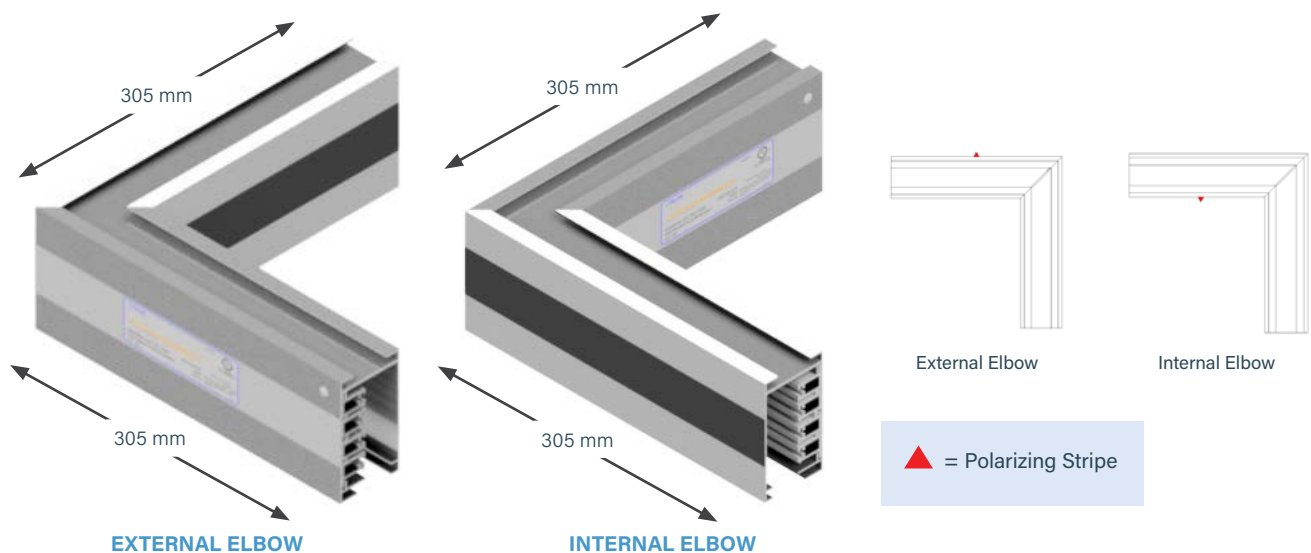
160T3 SYSTEMS

ELBOW SECTIONS

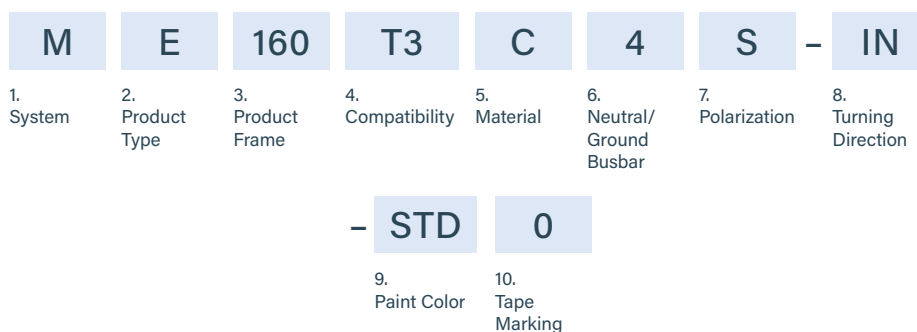
■ PRODUCT DESCRIPTION

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

Weight 2.5 kg



ELBOW SECTIONS: PRODUCT NUMBERS



1. System <i>(standard of measure)</i>		8. Turning Direction <i>(direction of section polarizing stripe)</i>			
M	Metric	IN	Internal	EX	External
HN	Seismic Internal	GX	Seismic External		
2. Product Type <i>(section component)</i>		9. Paint Color <i>(allows painting of the busway housing)</i>			
E	Elbow Section	STD	Factory Mill Finish	RED	Paint Factory Red
3. Product Frame <i>(maximum amperage)</i>		BLK	Paint Factory Black	BLU	Paint Factory Blue
160	160 amps	WHT	Paint Factory White	**RAL	<i>(please see page 3.36)</i>
4. Compatibility <i>(frame compatibility)</i>		10. Tape Marking <i>(colored tape on both sides of busway housing)</i>			
T3	T3 Series	0	None	6	Tape Factory Red
5. Material <i>(busbar material)</i>		3	Tape Factory Black	7	Tape Factory Blue
C	Copper	4	Tape Factory White	8	Tape Factory Green
6. Neutral/Ground Busbar <i>(size of neutral busbar and/or ground)</i>					
A	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 <i>(orientation of section for mating purposes)</i>					
S	Standard				

ME160T3C4S-IN-BLK4 = Metric System, Elbow Section, 160 amps, T3 Series, Copper Conductor, 3 Phase plus Neutral, Standard Polarization- Internal Turning
 Direction- Painted Factory Black, White Tape Marking

ME160T3CNS-EX-STD0 = Metric System, Elbow Section, 160 amps, T3 Series, Copper Conductor, 3 Phase plus 200% Neutral, Standard Polarization- External Turning Direction- Standard Mill Finish, No Tape Marking

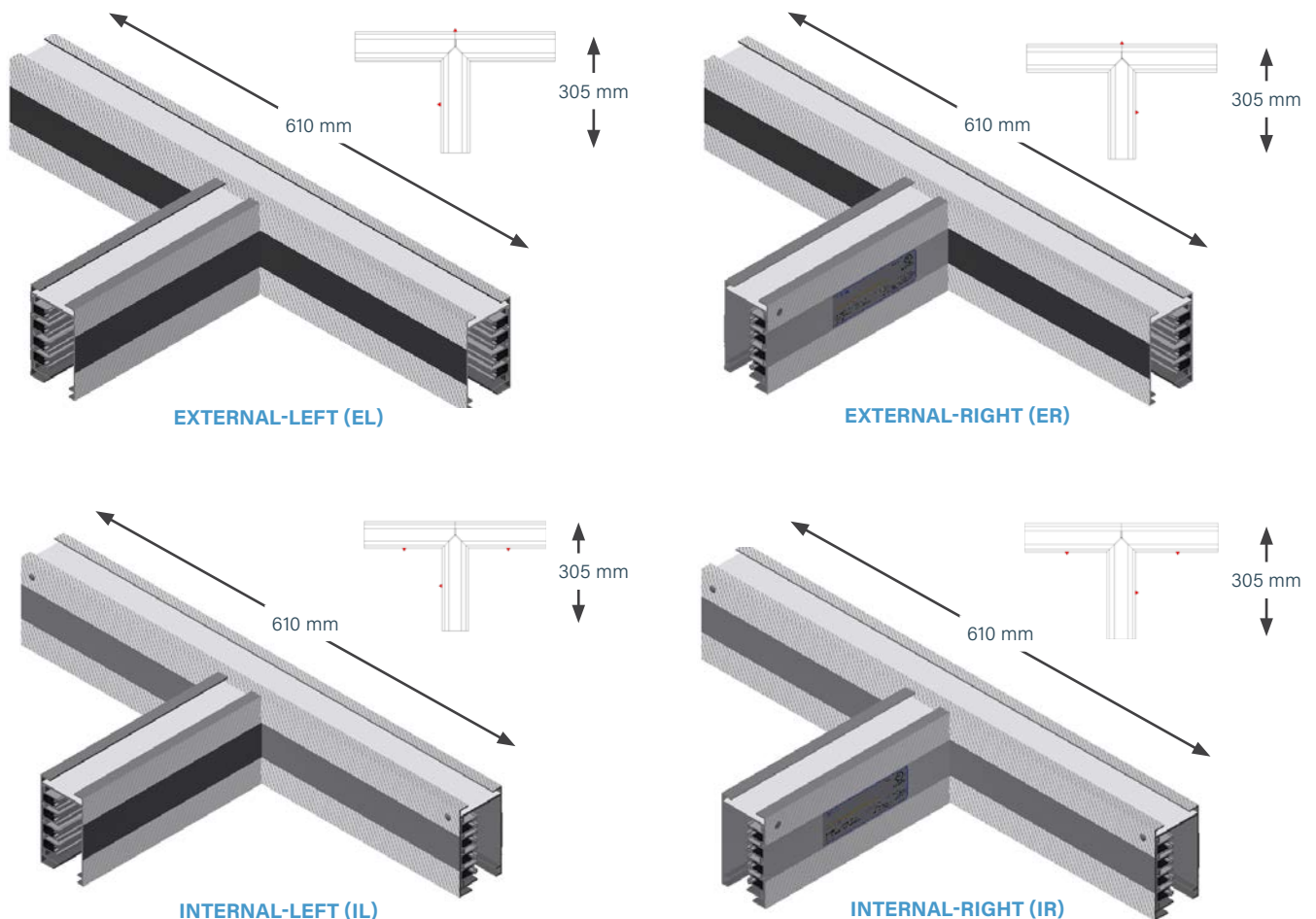
160T3 SYSTEMS

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 3.6 kg



▲ = Polarizing Stripe

160T3 SYSTEMS

TEE SECTIONS: PRODUCT NUMBERS

M	T	160	T3	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)

M Metric

2. Product Type (section component)

T Tee Section

3. Product Frame (maximum amperage)

160 160 amps

4. Compatibility (frame compatibility)

T3 T3 Series

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 3.36)

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

0 No Tape Marking	6 Tape Factory Red
3 Tape Factory Black	7 Tape Factory Blue
4 Tape Factory White	8 Tape Factory Green

EXAMPLES

MT160T3C4S-IR-RED0 = Metric System, Tee Section, 160 amps, T3 Series, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Red, No Tape Marking

MT160T3CGS-EL-STD0 = Metric System, Tee Section, 160 amps, T3 Series, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External-Left Turning Direction, Standard Mill Finish, No Tape Marking

160T3 SYSTEMS

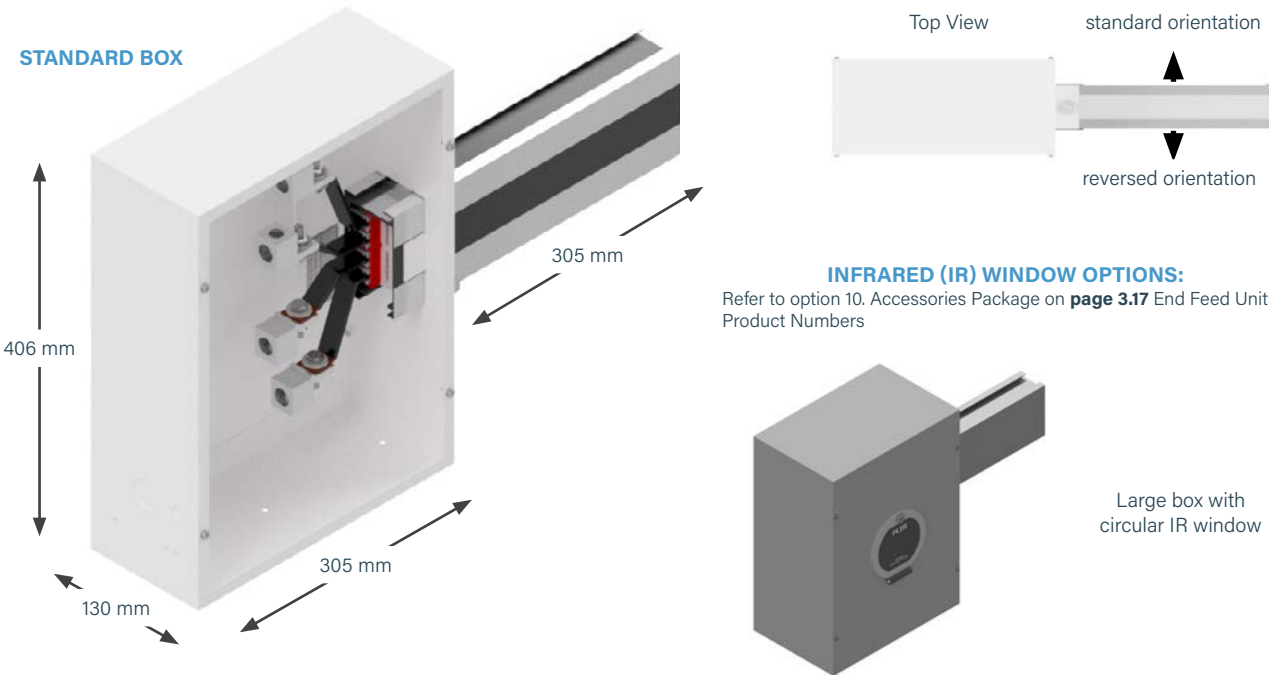
END FEED UNITS

PRODUCT DESCRIPTION

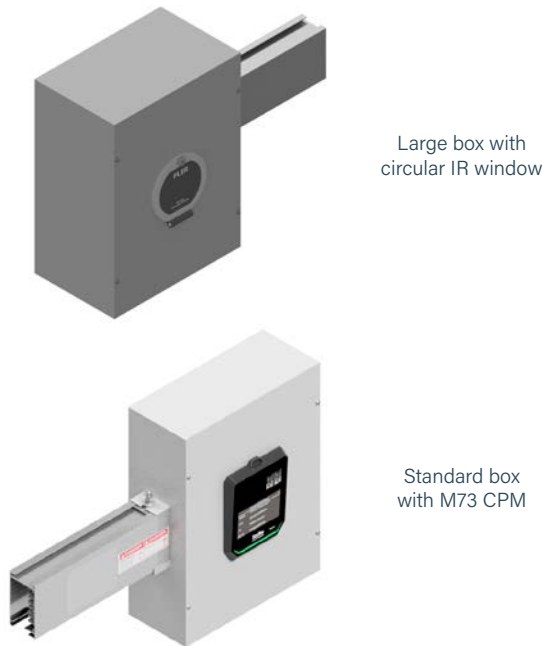
End power feed units connect to the end of the busway. A large size, factory assembled unit consists of a steel junction box, with removable sides, connected to a 305 millimeter section of busway. The assembly includes connection lugs, a ground lug and shrink tubing for wires up to 150 mm².

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

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



INFRARED (IR) WINDOW OPTIONS:
Refer to option 10. Accessories Package on **page 3.17** End Feed Units: Product Numbers



	BOXES		
LUGS	Standard	Large	Fused
Standard	S	L	
Double	D	A	
Bolt			

Box size and Lug options: Refer to option 8. Lug/Box Options on **page 3.17** End Feed Units: Product Numbers

**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.*

160T3 SYSTEMS

END FEED UNITS: METERING

■ PRODUCT DESCRIPTION

End feed units can be populated with Starline's Critical Power Monitor to provide access to revenue-grade, three-phase power data. The M70 CPM is built with a 109 mm LCD touchscreen display that can be angled down for easier viewing from the floor.

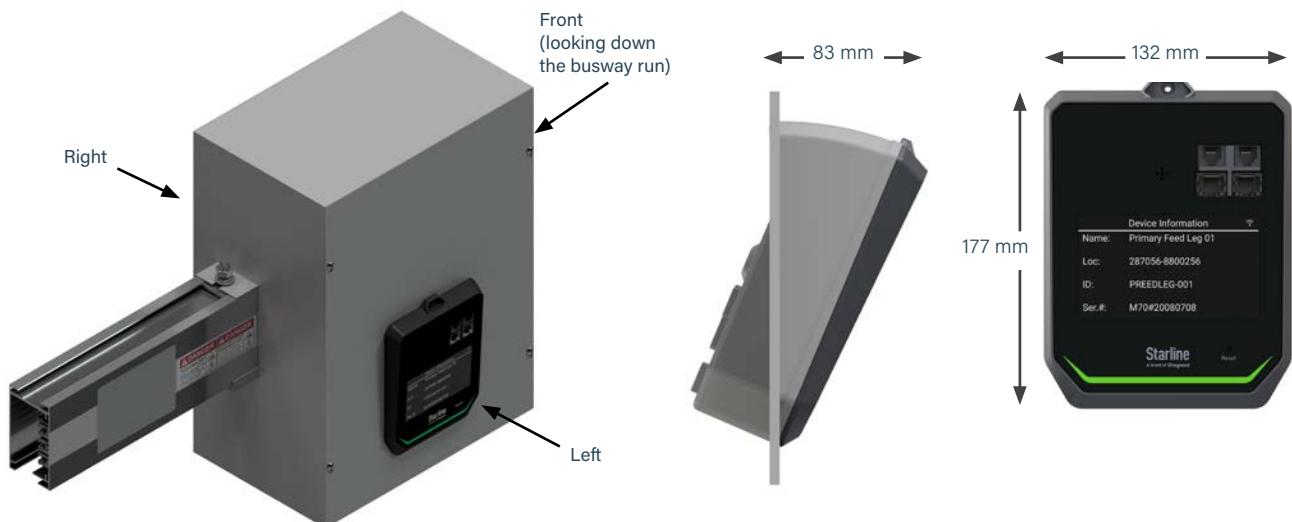
Wired ethernet and serial communications are standard with (2) RJ11 and (2) RJ45 jacks built in for easy daisy chaining. Optional 802.11n Wi-Fi connectivity is also available. Both serial Modbus and Ethernet-based protocols can be used simultaneously. These include: SNMP (v1, v2 & v3), Modbus RTU and TCP/IP, BACnet, HTTPS, and SSH.

Firmware communication options (IPv4, IPv6, DHCP, WPA2) are pre-packaged into the meter build. While these options are selected and then enabled during factory assembly, they can be re-configured at any time in the field. The M70 CPM is compatible with all major DCIM and BMS packages.

The M70 CPM can also be complemented with end feed accessories, such as real-time lug temperature monitoring, IR window scanning and audible alarms. Unlike firmware options, these hardware features are not field changeable.

The M70 is available in 110-500vac, 48vdc and 380vdc versions.

STANDARD BOX



*The above arrows show how to determine your meter location on an end feed (Refer to option 9, Meter Location on **page 3.17** End Feed Units: Product Numbers).

*Large box with one meter or accessory is 193 mm deep, and large box with one meter and accessory (on opposite lids) extends the depth to 257 mm.

*Any metering configuration that includes temperature monitoring will require a box depth of 1257 mm.

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

160T3 SYSTEMS

END FEED UNITS: ACCESSORIES

■ IR WINDOWS

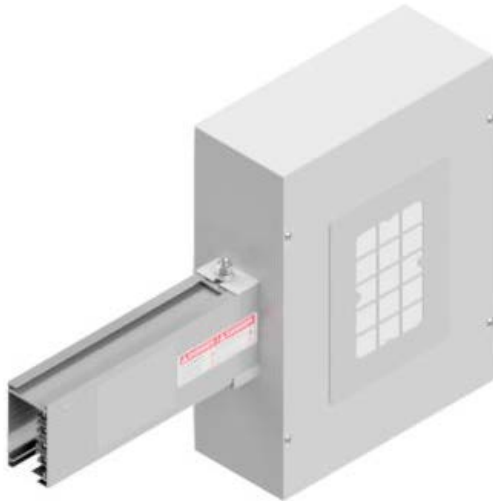
Starline Track Busway Polymer IR Window systems use a proprietary stack-up of advanced materials to ensure highest levels of safety and optimal infrared thermography of critical connections.

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

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

FEATURES & BENEFITS

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



GENERAL SPECIFICATIONS

Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Aluminum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T3); IP54 (S3)
Max Operating Temperature	125°C

WINDOW DIMENSIONS

End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 630A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17, M70 Options on **page 3.18** End Feed Metering: Product Numbers)

(Refer to option 10, Accessories Package on **page 3.17** End Feed Units: Product Numbers)

160T3 SYSTEMS

END FEED UNITS: PRODUCT NUMBERS

M	F	160	T3	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	
- M030 C - STD 0 - M73 00 1 <i>*Optional</i>											
		12. Straight Length	13. Busway Access	14. Paint Color	15. Tape Marking	*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type			

1. System (standard of measure)

M Metric

2. Product Type (section component)

F End Feed

3. Product Frame (maximum amperage)

160 160 amps

4. Compatibility (frame compatibility)

T3 T3 Series

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 **D** Double lugs, Standard box
L Standard lugs, Large box **A** Double lugs, Large box

9. Meter Location (from the terminal, side with removable lid; meter must follow lid orientation on large box)

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

10. Accessories Package (optional accessories for feed units)

S Standard
G Starline Rect. IR Window, 5" (127mm) x 7" (178mm)
C IR Window - Circular
O Seismic Mounting Holes
D Seismic with IR Window Circular
Q Seismic with IR Window Rectangular

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)

M030 .3 meters (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 3.36)

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

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

EXAMPLE

MF160T3C4R-LNSN-M030C-STD0 = Metric System, End Feed, 160 amps, T3 Series, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Large Box, No Meter Location, Standard Accessory Package, No Accessory Location, .3 meter Straight Length, Continuous Busway Access, Painted Factory Silver, No Tape Marking

160T3 SYSTEMS

END FEED METERING: PRODUCT NUMBERS

M	F	160	T3	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	
– M030 C – STD 0 – M73 00 1 <i>*Optional</i>											
		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 (M70 AC)

- M73** (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*16. Meter Release (M70 DC)

- M7C** (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*17. Meter Options (M70 AC and DC)

- 0A** IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP
- 00** Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm
- 1A** Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP
- 3A** Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP
- AA** Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*18. System Configuration and CT Type (M70 AC)

- 1** Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral
8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Y, Solid CTs, Millivolt, Measured Neutral
C Y, Split CTs, 5A-secondary, Measured Neutral

*18. System Configuration and CT Type (M70 DC)

- J** DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT



M73
 (2) RJ11, (2) RJ45,
 Lg. Display



M76
 Wi-Fi + (2) RJ11,
 (2) RJ45, Lg. Display

EXAMPLE

MF160T3C4R-LNSN-M030C-STD0-M73001 = Metric System, End Feed, 160 amps, T3 Series, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Large Box, No Meter Location, Standard Accessory Package, No Accessory Location, .3 meter Straight Length, Continuous Busway Access, Painted Factory Silver, No Tape Marking, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral

160T3 SYSTEMS

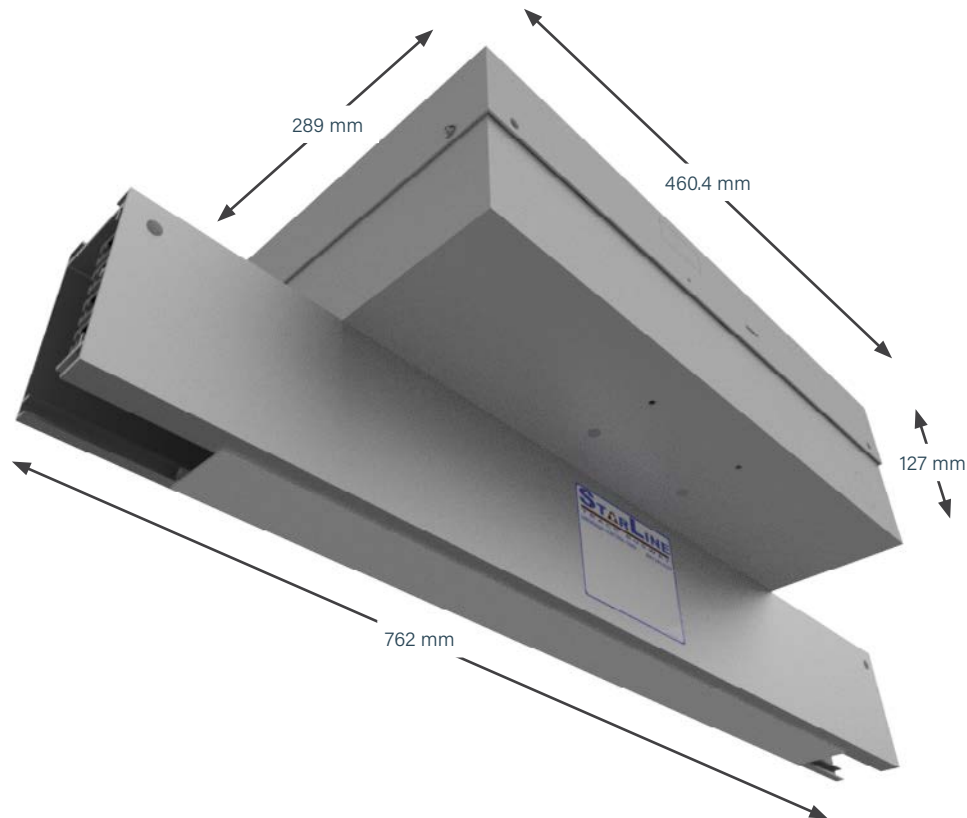
ABOVE FEED UNITS

■ PRODUCT DESCRIPTION

The above feed power unit comes as a completely pre-wired steel box to the top of a 762 millimeter section of busway. A connection lug is located inside the box for field termination of supply power cable up to 1/0. This unit is then connected to the end of an adjoining busway section using an installation tool and set of housing couplers (ordered separately).

Weight 7.5 kg

*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.



160T3 SYSTEMS

ABOVE FEED UNITS: PRODUCT NUMBERS

M	A	160	T3	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	
- M067 C 038 - STD 0 - M73 00 1 <i>*Optional</i>											
	12. Straight Length	13. Busway Access	14. Feed Location	15. Paint Color	16. Tape Marking	*17. Meter Release	*18. Meter Options	*19. System Config. and CT Type			

1. System <i>(standard of measure)</i> M Metric	13. Busway Access <i>(how plugs access the busway)</i> C Continuous
2. Product Type <i>(section component)</i> A Above Feed	14. Feed Location <i>(location of the center of the top feed)</i> 038 38 centimeters <i>(For other lengths, consult the factory)</i>
3. Product Frame <i>(maximum amperage)</i> 160 160 amps	15. Paint Color <i>(allows painting of the busway housing)</i> STD Factory Mill Finish RED Paint Factory Red BLK Paint Factory Black BLU Paint Factory Blue WHT Paint Factory White **RAL <i>(please see page 3.36)</i>
4. Compatibility <i>(frame compatibility)</i> T3 T3 Series	16. Tape Marking <i>(colored tape on both sides of busway housing)</i> 0 None 6 Tape Factory Red 3 Tape Factory Black 7 Tape Factory Blue 4 Tape Factory White 8 Tape Factory Green
5. Material <i>(busbar material)</i> C Copper	
6. Neutral/Ground Busbar <i>(size of neutral busbar and/or ground)</i> 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 <i>(orientation of section for mating purposes)</i> S Standard R Reversed	
8. Lug/Box Options <i>(standard/double/bolt lugs and box size)</i> S Standard lugs, Standard box L Standard lugs, Large box	
9. Meter Location <i>(from the terminal, side with removable lid; meter must follow lid orientation on large box)</i> R Right L Left N None (N/A)	
10. Accessories Package <i>(optional accessories for feed units)</i> S Standard	
11. Accessories Location <i>(from the terminal, side with removable lid)</i> N None (na) R Right A Rear L Left T Top F Front	
12. Straight Length <i>(length of section)</i> M076 .76 meters	

EXAMPLE

MA160T3CFS-LNSN-M076C038-STD0 = Metric System, Above Feed, 160 amps, T3 Series, Copper Conductor, 3 Phase plus 200% Neutral plus Internal Ground Conductor, Standard Polarization, Standard Lugs, Large Box, No Lid Orientation, Standard Accessory Package, No Accessory Location, .76 meter Straight Length, Continuous Busway Access, 38 centimeter Feed Location, Painted Factory Silver, No Tape Marking

160T3 SYSTEMS

ABOVE FEED UNITS: PRODUCT NUMBERS

M	A	160	T3	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	
– M067 C 038 – STD 0 – M73 00 1 <i>*Optional</i>											
	12. Straight Length	13. Busway Access	14. Feed Location	15. Paint Color	16. Tape Marking	*17. Meter Release	*18. Meter Options	*19. System Config. and CT Type			

*17. Meter Release (M70 AC)

- M73** (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*17. Meter Release (M70 DC)

- M7C** (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*18. Meter Options (M70 AC and DC)

- 0A** IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP
- 00** Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm
- 1A** Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP
- 3A** Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP
- AA** Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*19. System Configuration and CT Type (M70 AC)

- 1** Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral
8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Y, Solid CTs, Millivolt, Measured Neutral
C Y, Split CTs, 5A-secondary, Measured Neutral

*19. System Configuration and CT Type (M70 DC)

- J** DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

EXAMPLE

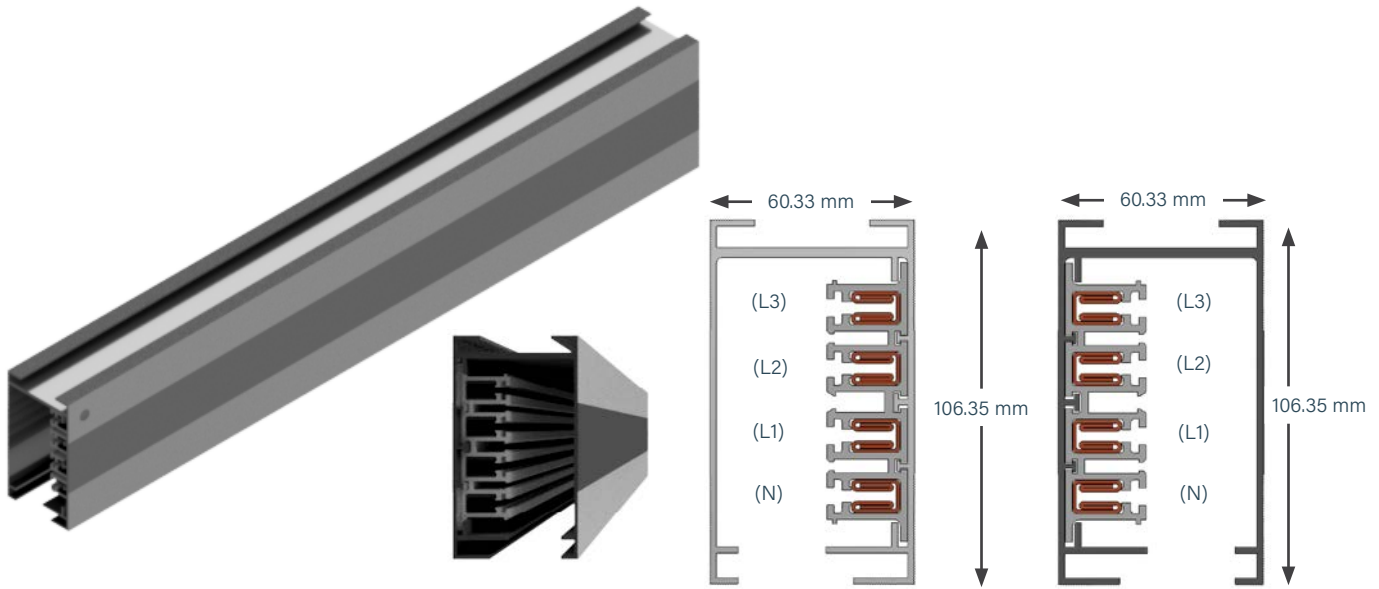
MA160T3CFS-LNSN-M076C038-STD0 = Metric System, Above Feed, 160 amps, T3 Series, Copper Conductor, 3 Phase plus 200% Neutral plus Internal Ground Conductor, Standard Polarization, Standard Lugs, Large Box, No Lid Orientation, Standard Accessory Package, No Accessory Location, .76 meter Straight Length, Continuous Busway Access, 38 centimeter Feed Location, Painted Factory Silver, No Tape Marking

225T3 SYSTEMS

STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight sections consist of an extruded aluminum shell with channel type solid copper busbars contained in a full length insulator mounted on one side of the interior wall. Each straight has an open access slot over its entire length for the insertion of turn-n-lock plug-in units. Housing configuration is 4 pole, 415 Volt. Busway joint connections are made using a joint kit, which includes a housing coupler and bus connector. An installation tool is used to insert the bus connector in between the busbar channels of the two sections for a solid spring-tempered electrical connection. A housing coupler is then used to make a solid mechanical connection.



MATERIAL

Extruded Aluminum

RATINGS

100% Ground Path
225 Amp, 600 Volt

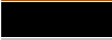
LENGTH

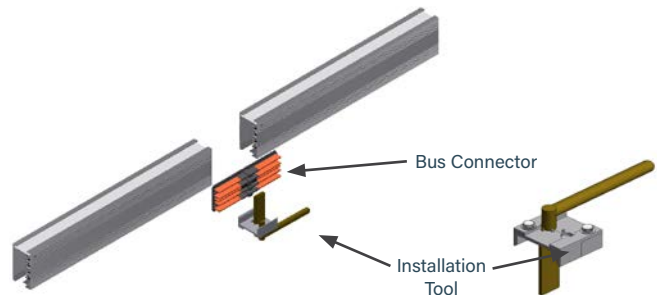
1.5 m, 3 m, 6 m; or custom lengths between 1.5 - 6 m

WEIGHT

3m 4 pole: 15 kg

METRIC

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



STRAIGHT SECTIONS: PRODUCT NUMBERS

1. System <i>(standard of measure)</i> M Metric	9. Busway Access <i>(how plugs access the busway)</i> C Continuous
2. Product Type <i>(section component)</i> S Straight Section	10. Paint Color <i>(allows painting of the busway housing)</i> STD Factory Mill Finish BLK Paint Factory Black WHT Paint Factory White RED Paint Factory Red BLU Paint Factory Blue **RAL <i>(please see page 3.36)</i>
3. Product Frame <i>(maximum amperage)</i> 225 225 amps	11. Tape Marking <i>(colored tape on both sides of busway housing)</i> 0 None 3 Tape Factory Black 4 Tape Factory White 6 Tape Factory Red 7 Tape Factory Blue 8 Tape Factory Green
4. Compatibility <i>(frame compatibility)</i> T3 T3 Series	
5. Material <i>(busbar material)</i> C Copper	
6. Neutral/Ground Busbar <i>(size of neutral busbar and/or ground)</i> 4 3 Phase plus Neutral	
7. Polarization <i>(orientation of section for mating purposes)</i> S Standard	
8. Straight Length <i>(length of section)</i> MXYY X = meters, YY = centimeters	

MS225T3C4S-M600C-P013 = Metric System, Straight Section, 225 amps, T3 Series, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, 6 meter Straight Length, Continuous Busway Access, RAL 1001, Black Tape Marking

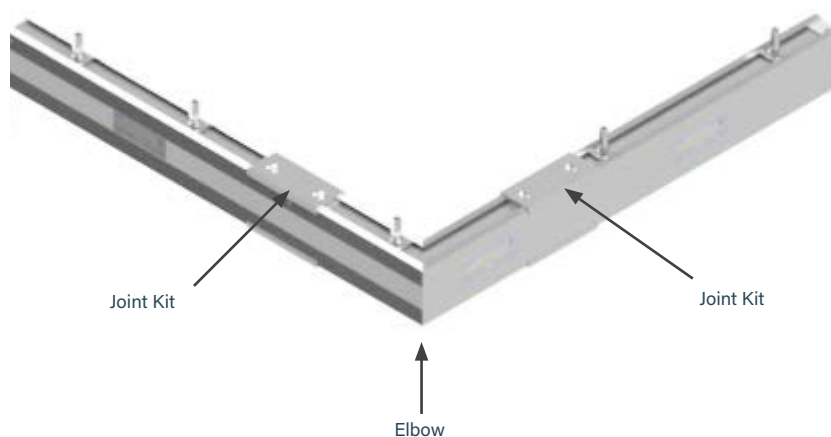
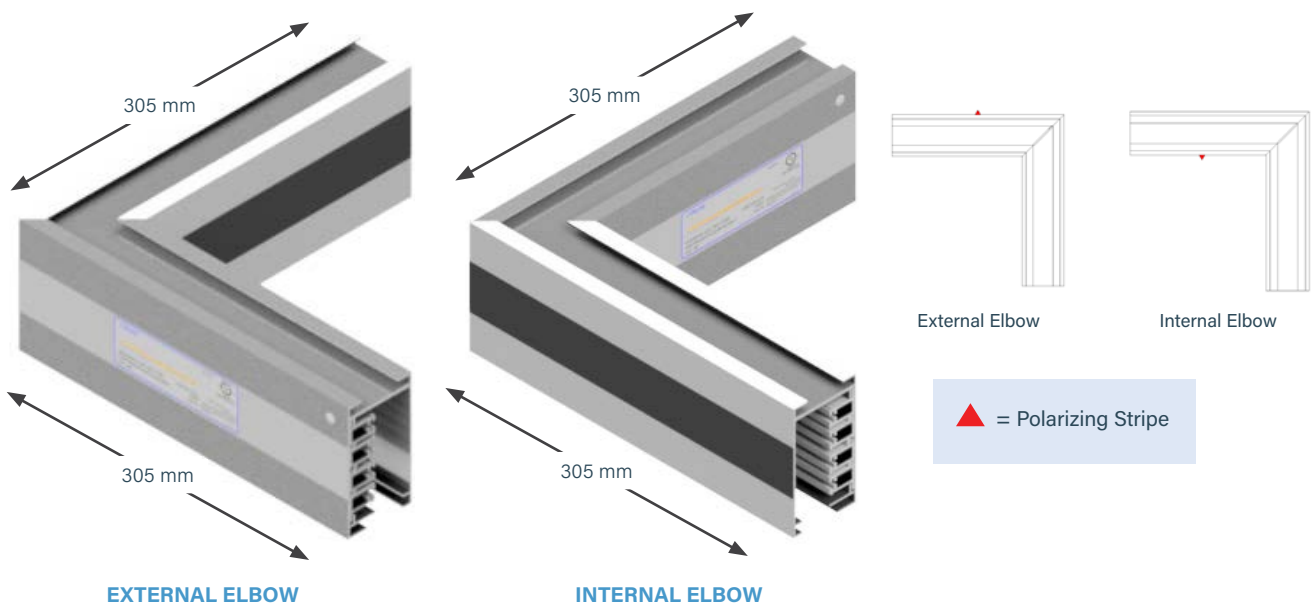
225T3 SYSTEMS

ELBOW SECTIONS

■ PRODUCT DESCRIPTION

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

Weight 2.5 kg



ELBOW SECTIONS: PRODUCT NUMBERS

M	E	225	T3	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)

M Metric

2. Product Type (section component)

E Elbow Section

3. Product Frame (maximum amperage)

225 225 amps

4. Compatibility (frame compatibility)

T3 T3 Series

5. Material (busbar material)

C Copper

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

4 3 Phase plus Neutral

7. Polarization (orientation of section for mating purposes)

S Standard

8. Turning Direction (direction of section polarizing stripe)

IN Internal

HN Seismic Internal

EX External

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 3.36)

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

0 None

6 Tape Factory Red

3 Tape Factory Black

7 Tape Factory Blue

4 Tape Factory White

8 Tape Factory Green

ME225T3C4S-IN-PH40 = Metric System, Elbow Section, 225 amps, T3 Series, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal Turning
Direction, Painted RAL 5014, No Tape Marking

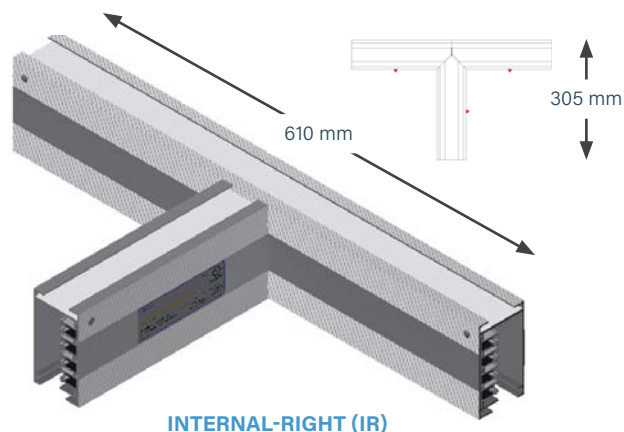
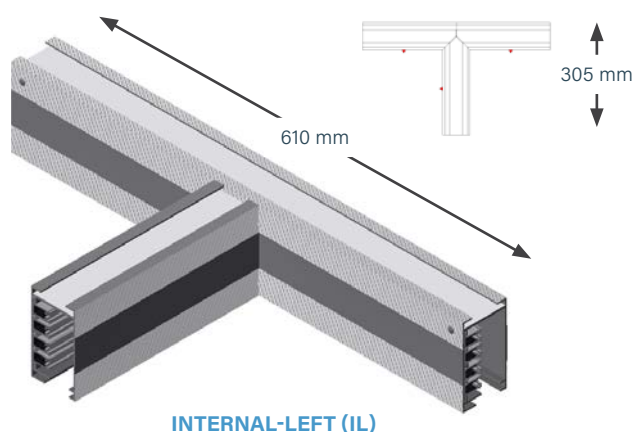
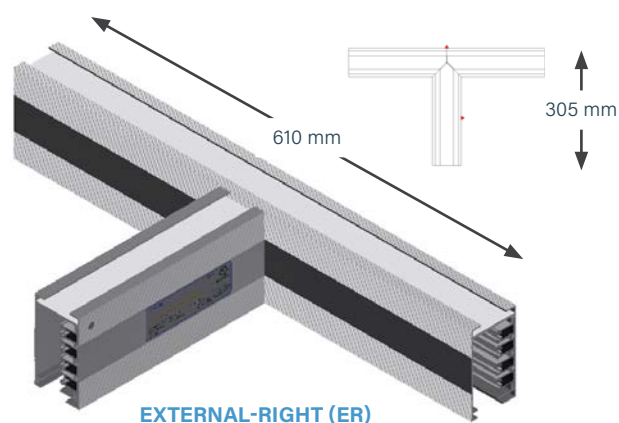
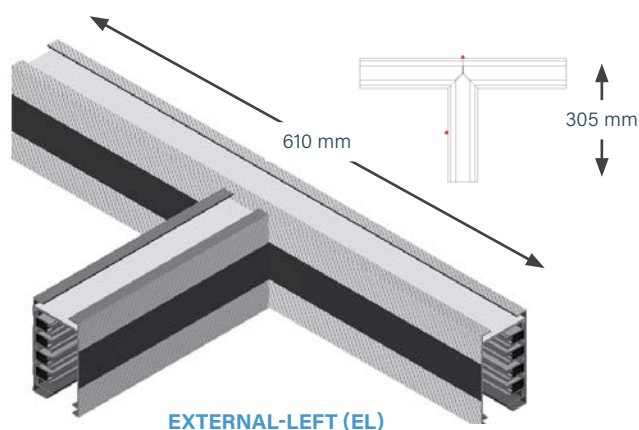
225T3 SYSTEMS

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 4.2 kg



▲ = Polarizing Stripe

225T3 SYSTEMS

TEE SECTIONS: PRODUCT NUMBERS

M	T	225	T3	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)

M Metric

2. Product Type (section component)

T Tee Section

3. Product Frame (maximum amperage)

225 225 amps

4. Compatibility (frame compatibility)

T3 T3 Series

5. Material (busbar material)

C Copper

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

4 3 Phase plus Neutral

7. Polarization (orientation of section for mating purposes)

S Standard

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 3.36)

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

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

EXAMPLES

MT225T3C4S-IR-BLU0 = Metric System, Tee Section, 225 amps, T3 Series, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Blue, No Tape Marking

MT225T3C4S-EL-STD0 = Metric System, Tee Section, 225 amps, T3 Series, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, External-Left Turning Direction, Standard Mill Finish, No Tape Marking

225T3 SYSTEMS

END FEED UNITS

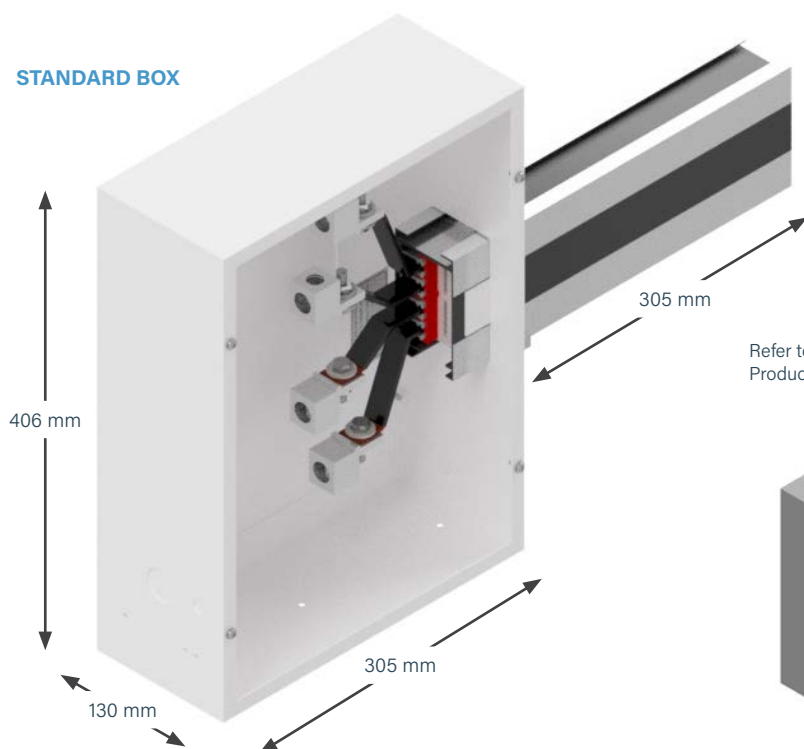
■ PRODUCT DESCRIPTION

Standard end power feed units connect to the end of the busway. Factory assembled unit consists of a steel junction box, with removable side, connected to a 305 millimeter section of busway. The assembly includes connection lugs, a ground lug and shrink tubing for wires up to 150 mm².

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

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

STANDARD BOX



Top View

standard orientation

reversed orientation

INFRARED (IR) WINDOW OPTIONS:

Refer to option 10. Accessories Package on **page 3.30** End Feed Units: Product Numbers



Large box with circular IR window



Standard box with M73 CPM

	BOXES		
LUGS	Standard	Large	Fused
Standard	S	L	
Double	D	A	
Bolt			

Box size and Lug options: Refer to option 8. Lug/Box Options on **page 3.31**
End Feed Units: Product Numbers

225T3 SYSTEMS

END FEED UNITS: METERING

■ PRODUCT DESCRIPTION

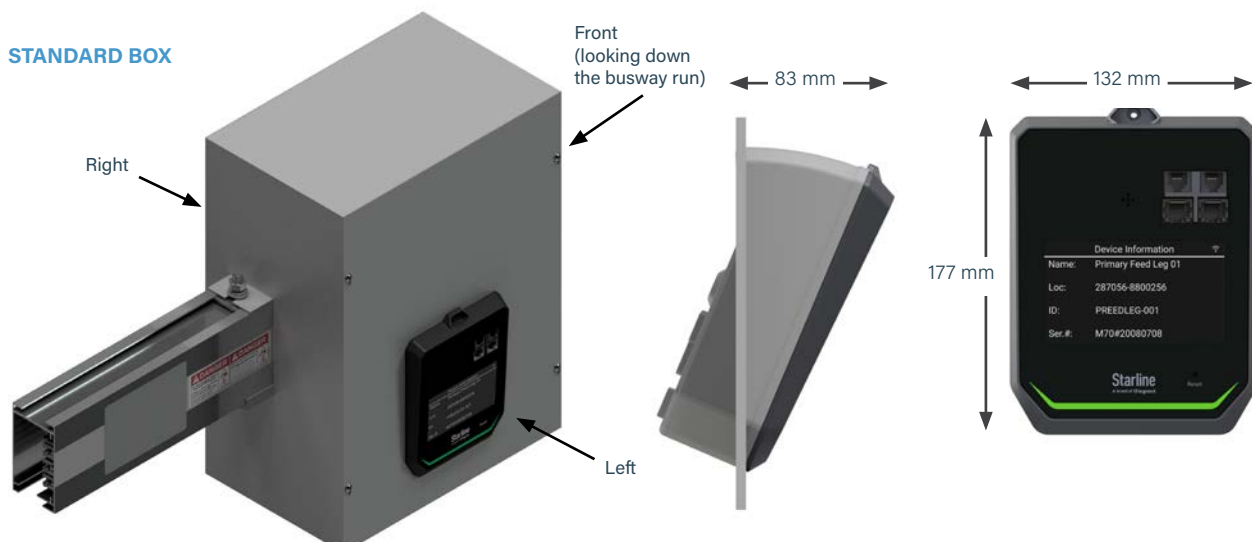
End feed units can be populated with Starline's Critical Power Monitor to provide access to revenue-grade, three-phase power data. The M70 CPM is built with a 109 mm LCD touchscreen display that can be angled down for easier viewing from the floor.

Wired ethernet and serial communications are standard with (2) RJ11 and (2) RJ45 jacks built in for easy daisy chaining. Optional 802.11n Wi-Fi connectivity is also available. Both serial Modbus and Ethernet-based protocols can be used simultaneously. These include: SNMP (v1, v2 & v3), Modbus RTU and TCP/IP, BACnet, HTTPS, and SSH.

Firmware communication options (IPv4, IPv6, DHCP, WPA2) are pre-packaged into the meter build. While these options are selected and then enabled during factory assembly, they can be re-configured at any time in the field. The M70 CPM is compatible with all major DCIM and BMS packages.

The M70 CPM can also be complemented with end feed accessories, such as real-time lug temperature monitoring, IR window scanning and audible alarms. Unlike firmware options, these hardware features are not field changeable.

The M70 is available in 110-500vac, 48vdc and 380vdc versions.



*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 3.31 End Feed Units: Product Numbers**).

*Large box with one meter or accessory is 193 mm deep, and large box with one meter and accessory (on opposite lids) extends the depth to 257 mm.

*Any metering configuration that includes temperature monitoring will require a box depth of 257 mm.

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

225T3 SYSTEMS

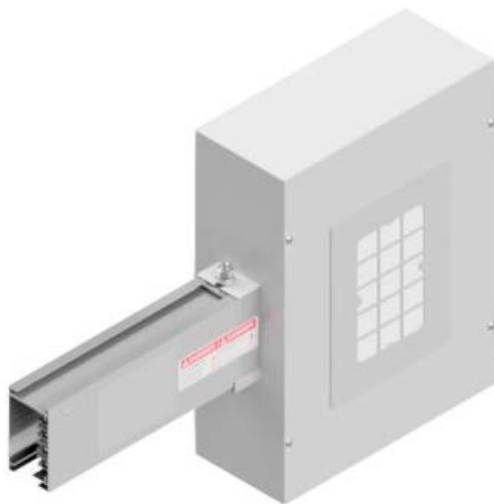
END FEED UNITS: ACCESSORIES

■ IR WINDOWS

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

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

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



FEATURES & BENEFITS

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

GENERAL SPECIFICATIONS

Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Aluminum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T3); IP54 (S3)
Max Operating Temperature	125°C

WINDOW DIMENSIONS

End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 500A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17, M70 Options on **page 3.32** End Feed Metering: Product Numbers)

(Refer to option 10, Accessories Package on **page 3.31** End Feed Units: Product Numbers)

END FEED UNITS: PRODUCT NUMBERS

M	F	225	T3	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	
– M030 C – STD 0 – M73 00 1 <i>*Optional</i>											
		12. Straight Length	13. Busway Access	14. Paint Color	15. Tape Marking	*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type			

1. System <i>(standard of measure)</i>	
M	Metric
2. Product Type <i>(section component)</i>	
F	End Feed
3. Product Frame <i>(maximum amperage)</i>	
225	225 amps
4. Compatibility <i>(frame compatibility)</i>	
T3	T3 Series
5. Material <i>(busbar material)</i>	
C	Copper
6. Neutral/Ground Busbar <i>(size of neutral busbar and/or ground)</i>	
4	3 Phase plus Neutral
7. Polarization <i>(orientation of section for mating purposes)</i>	
S	Standard
R	Reversed
8. Lug/Box Options <i>(standard/double/bolt lugs and box size)</i>	
S	Standard lugs, Standard box
L	Standard lugs, Large box
D	Double lugs, Standard box
A	Double lugs, Large box
9. Meter Location <i>(from the terminal, side with removable lid; meter must follow lid orientation on large box)</i>	
R	Right
N	None (N/A)
10. Accessories Package <i>(optional accessories for feed units)</i>	
S	Standard
G	Starline Rect. IR Window, 5" (127mm) x 7" (178mm)
C	IR Window - Circular
D	Seismic Mounting Holes
O	Seismic with IR Window Circular
Q	Seismic with IR Window Rectangular
11. Accessories Location <i>(from the terminal, side with accessory)</i>	
N	None (N/A)
L	Left
R	Right
F	Front (consult the factory)
12. Straight Length <i>(length of section)</i>	
M030	.3 meters <i>(For other lengths, consult the factory)</i>
13. Busway Access	
C	Continuous
14. Paint Color <i>(allows painting of the busway housing)</i>	
STD	Factory Mill Finish
BLK	Paint Factory Black
WHT	Paint Factory White
RED	Paint Factory Red
BLU	Paint Factory Blue
**RAL	<i>(please see page 3.36)</i>
15. Tape Marking <i>(colored tape on both sides of busway housing)</i>	
0	None
3	Tape Factory Black
4	Tape Factory White
6	Tape Factory Red
7	Tape Factory Blue
8	Tape Factory Green

MF225T3C4R-DRSN-M030C-BLK0 = Metric System, End Feed, 225 amps, T3 Series, Copper Conductor, 3 Phase *plus* Neutral, Reversed Polarization, Double Lugs, Standard Box, Right Meter Location, Standard Accessory Package, No Accessory Location, .3 meter Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking

225T3 SYSTEMS

END FEED METERING: PRODUCT NUMBERS

M	F	225	T3	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	
– M030 C – STD 0 – M73 00 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 (M70 AC)

- M73** (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*16. Meter Release (M70 DC)

- M7C** (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*17. Meter Options (M70 AC and DC)

- 0A** IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP
- 00** Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm
- 1A** Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP
- 3A** Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP
- AA** Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*18. System Configuration and CT Type (M70 AC)

- 1** Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral
8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Y, Solid CTs, Millivolt, Measured Neutral
C Y, Split CTs, 5A-secondary, Measured Neutral

*18. System Configuration and CT Type (M70 DC)

- J** DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT



M73
 (2) RJ11, (2) RJ45,
 Lg. Display



M76
 Wi-Fi + (2) RJ11,
 (2) RJ45, Lg. Display

EXAMPLE

MF225T3C4R-DRSN-M030C-BLK0-M73001 = Metric System, End Feed, 225 amps, T3 Series, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Double Lugs, Standard Box, Right Meter Location, Standard Accessory Package, No Accessory Location, .3 meter Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral

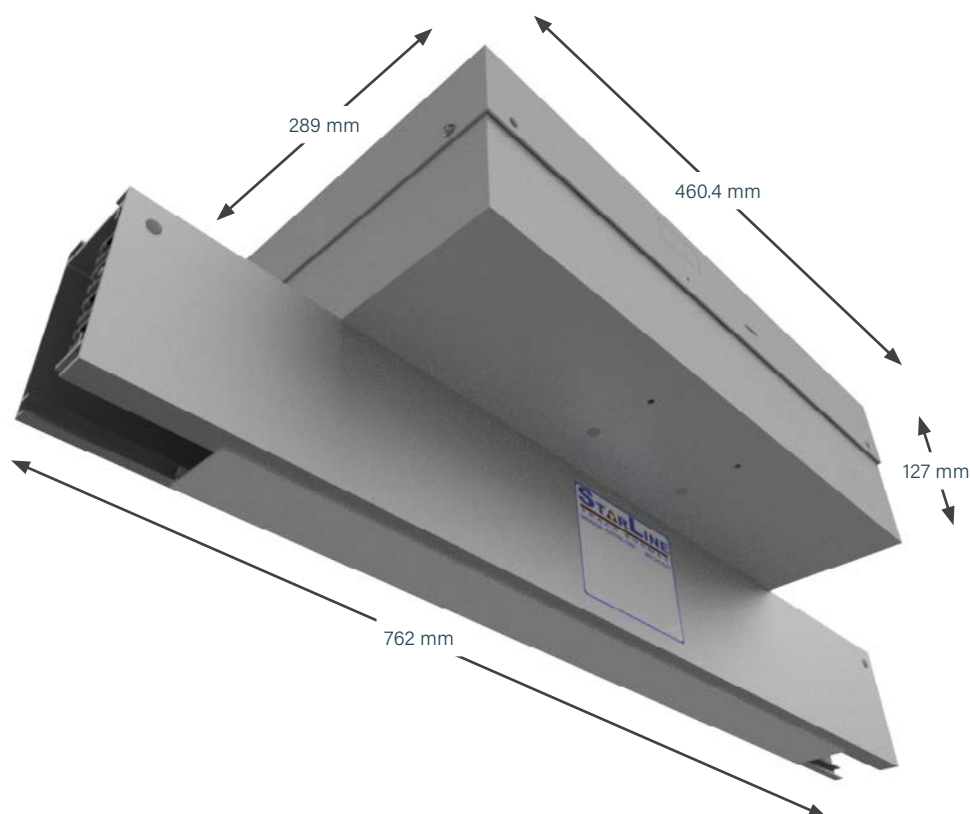
225T3 SYSTEMS

ABOVE FEED UNITS

■ PRODUCT DESCRIPTION

The above feed power unit comes as a completely pre-wired steel box to the top of a 762 millimeter section of busway. A connection lug is located inside the box for field termination of supply power cable up to 1/0. This unit is then connected to the end of an adjoining busway section using an installation tool and a joint kit (*ordered separately*).

Weight 7.5 - 10.4 kg



225T3 SYSTEMS

ABOVE FEED UNITS: PRODUCT NUMBERS

M	A	225	T3	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
- M030 C 038 - STD 0 - M73 00 1 <i>*Optional</i>											
	12. Straight Length	13. Busway Access	14. Feed Location	15. Paint Color	16. Tape Marking			*17. Meter Release	*18. Meter Options	*19. System Config. and CT Type	

1. System <i>(standard of measure)</i> M Metric	13. Busway Access <i>(how plugs access the busway)</i> C Continuous
2. Product Type <i>(section component)</i> A Above Feed	14. Feed Location <i>(location of the center of the top feed)</i> 038 38 centimeters <i>(For other lengths, consult the factory)</i>
3. Product Frame <i>(maximum amperage)</i> 225 225 amps	15. Paint Color <i>(allows painting of the busway housing)</i> STD Factory Mill Finish RED Paint Factory Red BLK Paint Factory Black BLU Paint Factory Blue WHT Paint Factory White **RAL <i>(please see page 3.36)</i>
4. Compatibility <i>(frame compatibility)</i> T3 T3 Series	16. Tape Marking <i>(colored tape on both sides of busway housing)</i> 0 None 6 Tape Factory Red 3 Tape Factory Black 7 Tape Factory Blue 4 Tape Factory White 8 Tape Factory Green
5. Material <i>(busbar material)</i> C Copper	
6. Neutral/Ground Busbar <i>(size of neutral busbar and/or ground)</i> 4 3 Phase plus Neutral	
7. Polarization <i>(orientation of section for mating purposes)</i> S Standard R Reversed	
8. Lug/Box Options <i>(standard/double/bolt lugs and box size)</i> S Standard lugs, Standard box L Standard lugs, Large box	
9. Meter Location <i>(from the terminal, side with removable lid; meter must follow lid orientation on large box)</i> R Right L Left N None (N/A)	
10. Accessories Package <i>(optional accessories for feed units)</i> S Standard	
11. Accessories Location <i>(from the terminal, side with removable lid)</i> N None (N/A) R Right A Rear L Left T Top F Front	
12. Straight Length <i>(length of section)</i> M076 .76 meters	

EXAMPLE

MA225T3C4R-SNSN-M076C038-STD0 = Metric System, Above Feed, 225 amps, T3 Series, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, No Meter Location, Standard Accessory Package, No Accessory Location, .76 meters Straight Length, Continuous Busway Access, 38 centimeter Feed Location, Painted Factory Silver, No Tape Marking

225T3 SYSTEMS

ABOVE FEED UNITS: PRODUCT NUMBERS

M	A	225	T3	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	
– M030 C 038 – STD 0 – M73 00 1 <i>*Optional</i>											
	12. Straight Length	13. Busway Access	14. Feed Location	15. Paint Color	16. Tape Marking	*17. Meter Release	*18. Meter Options	*19. System Config. and CT Type			

*17. Meter Release (M70 AC)

- M73** (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*17. Meter Release (M70 DC)

- M7C** (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*18. Meter Options (M70 AC and DC)

- 0A** IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP
- 00** Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm
- 1A** Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP
- 3A** Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP
- AA** Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*19. System Configuration and CT Type (M70 AC)

- 1** Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral
8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Y, Solid CTs, Millivolt, Measured Neutral
C Y, Split CTs, 5A-secondary, Measured Neutral

*19. System Configuration and CT Type (M70 DC)

- J** DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

EXAMPLE

MA225T3C4R-SNSN-M076C038-STD0 = Metric System, Above Feed, 225 amps, T3 Series, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, No Meter Location, Standard Accessory Package, No Accessory Location, .76 meters Straight Length, Continuous Busway Access, 38 centimeter Feed Location, Painted Factory Silver, No Tape Marking

T3 SERIES

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

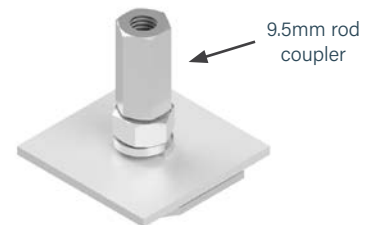
T3 SERIES

ACCESSORIES: SUPPORT HARDWARE

■ THREADED ROD

For mounting to 3/8 - 16 threaded rod. Can be inserted anywhere along the top full-access slot of busway. Hanger support is required every 3 meters maximum.

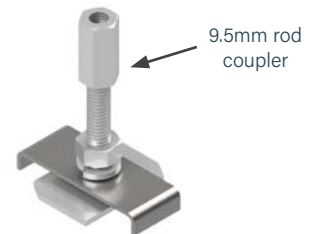
Part Number
MBRH-M10
Available in plain zinc
or black (-BLK)
Weight
.14 kg



■ SEISMIC THREADED ROD

For mounting to 3/8 - 16 threaded rod. Can be inserted anywhere along the top full-access slot of busway, and includes a seismic brace. Hanger support is required every 3 meters maximum.

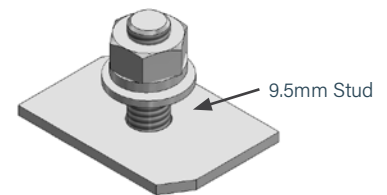
Part Number
MBRS-M10
Available in plain zinc
or black (-BLK)
Weight
.14 kg



■ 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 3 meters maximum.

Part Number
MBH-M10
Available in plain zinc
or black (-BLK)
Weight
.09 kg



■ WEIGHT HOOK

Can be used as a hanger to suspend the busway from chains or cables. Can also be used to hang loads up to 45.4 kg under the busway, such as light fixtures, tools and balancers.

Part Number
SWHRT3
Available in plain zinc
Weight
.09 kg

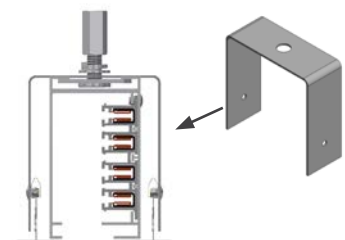


■ RECESSED SUSPENDED CEILINGS

For hanging busway into a recessed ceiling.

**Hanger bolt must be ordered separately*

Part Number
SRMT3-1
Available in plain zinc



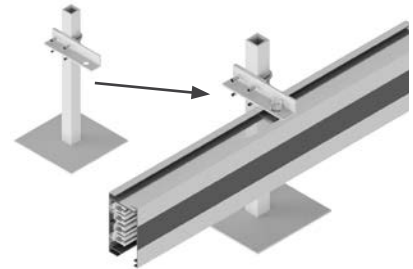
T3 SERIES

ACCESSORIES: SUPPORT HARDWARE

■ RAISED ACCESS FLOOR

For mounting the busway vertically (with access slot facing down) for under floor applications.

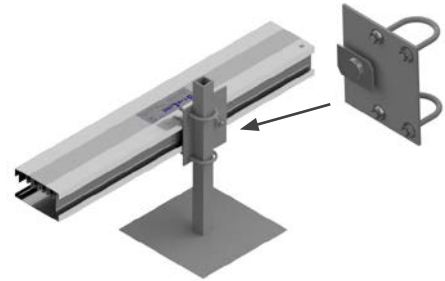
Part Number
MRFBT3-1
*MBH-M10 comes included
Available in plain zinc
or black (-BLK)



■ RAISED MOUNTING BRACKET

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

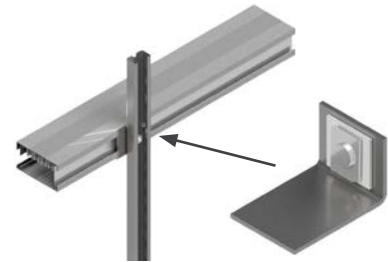
Part Number
MRFBT3-2
Available in plain zinc
or black (-BLK)
Weight
.09 kg



■ SIDE MOUNT SUPPORT BRACKET

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

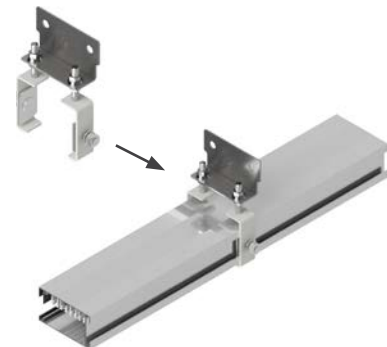
Part Number
MBSS-1
Available in plain zinc
or black (-BLK)
Weight
.09 kg



■ SIDE MOUNT HANGER BRACKET

Mounted to overhead supports

Part Number
MBH-T3-SIDE
Available in plain zinc
or black (-BLK)
Weight
.59 kg



T3 SERIES

ACCESSORIES: SUPPORT HARDWARE

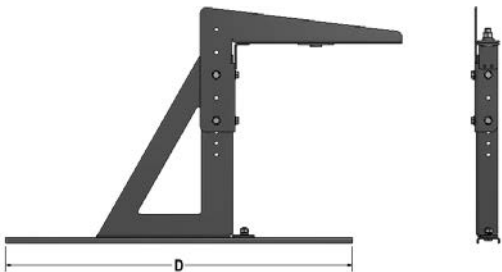
PRODUCT DESCRIPTION

UNIVERSAL SERVER CABINET MOUNTING BRACKETS

The Universal Server Cabinet Mounting Brackets are designed with generous 3/8 inch (9.5 millimeter) wide through slots to mount directly onto virtually any server cabinet.

These accessories quickly and easily provide a flexible busway mounting solution on top of server cabinets, eliminating the need for threaded rod and strut support from the ceiling. The brackets are adjustable in height, can be ordered in virtually any color, and can be positioned at any depth on the server cabinet. Moreover, they can accommodate up to (2) runs of busway.

Hanger Bolt Included – MBH-M10



MATERIAL

Galvanneal Steel

HEIGHT

449 mm Min
603 mm Max
Maximum Spacing: Every 3 m per run

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

- | | | | |
|----------|-----------------|----------|------|
| 1 | Anodized Silver | 6 | Red |
| 3 | Black | 7 | Blue |
| 4 | White | | |

**consult factory for custom colors*

Part Number

MUSCMB-(X)-(D)-(C)

- X** = System (T3)
D = Depth (762 mm, 914 mm, 1067 mm, 1219 mm or custom length)
C = Color (1, 3, 4, 6, 7)

EXAMPLES

MUSCMB-T3-762-4 = Metric System, Universal Server Cabinet Mounting Bracket, T3 Series, 762 millimeter Depth, White

MUSCMB-T3-1219-3 = Metric System, Universal Server Cabinet Mounting Bracket, T3 Series, 1219 millimeter Depth, Black

T3 SERIES

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: one pair that consists of a 2-bolt coupler for the top of busway, and a 4-bolt coupler for the bottom of busway.

**Installation tool is required
(page 3.40)*

Part Number
MJK160T3 (for 160 amp systems)

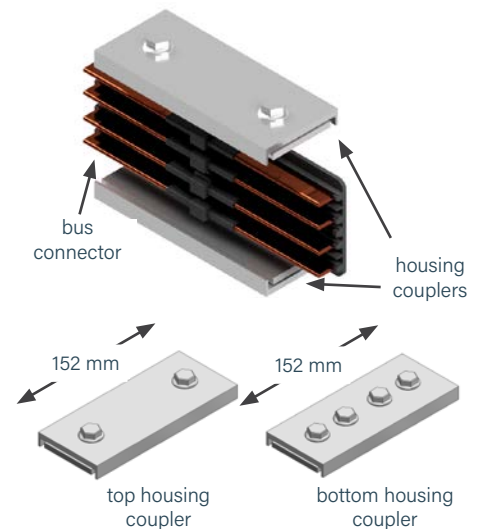
*MJK160T3G
(for 160 amp systems with ground)*

*MJK160T3N (for 160 amp systems
with 200% neutral)*

*MJK160T3F (for 160 amp systems
with ground and 200% neutral)*

SJK225T3 (for 225 amp systems)

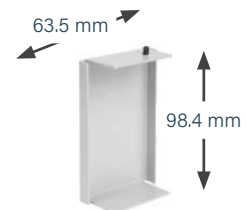
*Available in all standard and
RAL colors*



END CAP

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

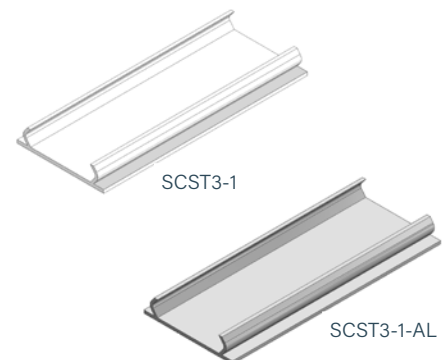
Part Number
SECT3
*Available in all standard and RAL
colors*
Weight: .09 kg



OPTIONAL CLOSURE STRIP

Snap into bottom access slot of busway housing. The optional closure strip is normally shipped in 6 meter lengths and can be field cut to fit exact desired length. The closure strip is offered in both nonconductive plastic material and aluminum.

Part Number
SCST3-1
*Aluminum closure strip:
SCST3-1-AL*
*-Plastic Closure Strip available in
black & white*
*-Aluminum Closure Strip available in
all standard colors*
Maximum Cut Length: 6m



T3 SERIES

ACCESSORIES: INSTALLATION TOOL

■ PRODUCT DESCRIPTION

INSTALLATION TOOL

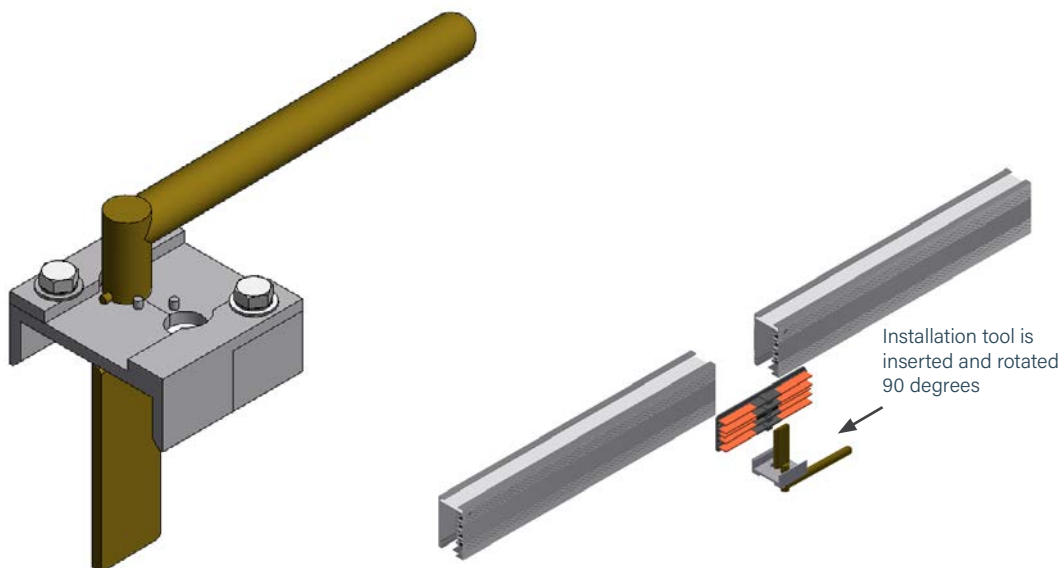
An installation tool is used to install the bus connector between two adjacent sections of busway. A joint kit, which is comprised of two housing couplers and a bus connector set, is required at every joint.

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

Weight 1.1 kg

Part Number (for all T3 systems)
ST3IT

No available colors



T3 SERIES

SERVICES

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

WE ARE CURRENTLY OFFERING THE FOLLOWING SERVICES:

COMMISSIONING AND EQUIPMENT RENTALS

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

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

METER SERVICES

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

STARTUP AND SYSTEM CERTIFICATION

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

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

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

TURNKEY INSTALLATION SERVICES

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

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

T3 SERIES

SERVICES

PREVENTATIVE MAINTENANCE PLANS AND IR SCANNING

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

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

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

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

ON-SITE INSTALLATION SUPPORT

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

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

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

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

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

T3 SERIES

SERVICES

ON-SITE PRODUCT TRAINING

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

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

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

RECERTIFICATION AND EXTENDED WARRANTY PLANS

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

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

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

T3 PLUG-IN UNITS

T3 PLUG-IN UNITS

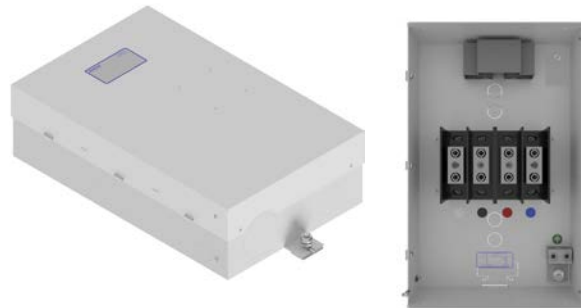
METER PLUG/METER BOX UNITS

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



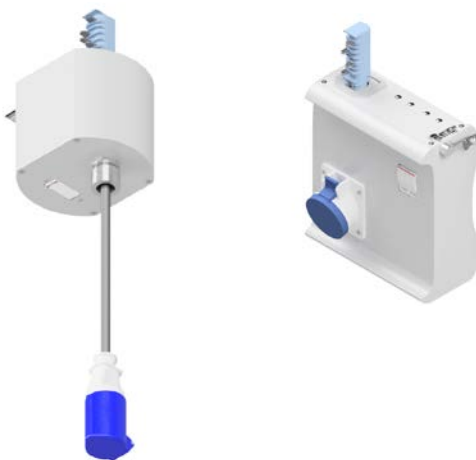
TERMINAL BLOCK UNITS

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



RECEPTACLE BOX/DROP CORD UNITS

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



CIRCUIT BREAKER/FUSED DISCONNECT UNITS

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



T3 PLUG-IN UNITS

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? (160, 225, etc.)
2. Does the system need an internal ground?
3. Are there any limitations on the length of a run? (1.5 m, 3m, 6 meter max, etc.)

WHEN DETERMINING DESIRED PLUG CONFIGURATIONS

1. What type of system is this being used on? (T3)
2. Does the system have an internal ground? If so, does the plug need to be wired Isolated or Dedicated ground/earth?
3. What is the fault current needed for the breaker? (10Kaic, 22Kaic, etc.)
4. Does the plug need to have drop cords or receptacles?
5. What is the device configuration of the connector bodies or receptacles?
6. What is your desired MCB configuration? (phase, amperage, poles?)
7. Do you require metering?
8. How many outlets are needed?
9. What is the trip curve needed?
10. What MCB brand is preferred?
11. What is the voltage required?

T3 PLUG-IN UNITS

METER PLUGS: PRODUCT NUMBERS



1. System (standard of measure)

M Metric

2. Product Type (section component)

M Meter Plug

3. Compatibility (frame compatibility)

T3 T3 System

4. Ground (ground type installed)

C Case (Housing) Ground

5. Box (what size enclosure)

01, 02, ... 99 (refer to enclosure reference **page 3.60**)

6. Orientation (what direction the paddle faces)

S Standard **R** Reversed

7. Current Transformer (current rating)

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

8. Meter Release (M70 AC)

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

8. Meter Release (M70 DC)

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

9. Meter Options (M70 AC and DC)

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

continues...

9. Meter Options (M70 AC and DC)... continued

00 Standard Features (IPV4 + No Accessories)

10 Lug Temp

30 Audible Alarm

A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6

1B Lug Temp + DHCP

1C Lug Temp + WPA2E

1E Lug Temp + IPV6 + DHCP

1F Lug Temp + IPV6 + WPA2E

1J Lug Temp + DHCP + WPA2E

1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6

3B Audible Alarm + DHCP

3C Audible Alarm + WPA2E

3E Audible Alarm + IPV6 + DHCP

3F Audible Alarm + IPV6 + WPA2E

3J Audible Alarm + DHCP + WPA2E

3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6

AB Lug Temp + Audible Alarm + DHCP

AC Lug Temp + Audible Alarm + WPA2E

AE Lug Temp + Audible Alarm + IPV6 + DHCP

AF Lug Temp + Audible Alarm + IPV6 + WPA2E

AJ Lug Temp + Audible Alarm + DHCP + WPA2E

AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

10. Meter Configuration (M70 AC)

1 Δ, Solid CTs, Millivolt, No Measured Neutral

4 Δ, Split CTs, 5A-secondary, No Measured Neutral

5 Y, Solid CTs, Millivolt, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral

9 Y, Solid CTs, Millivolt, Measured Neutral

C Y, Split CTs, 5A-secondary, Measure Neutral

10. Meter Configuration (M70 DC)

J DC Circuit 1, Solid CT

K DC Circuit 2, Solid CT

L DC Both Circuits, Solid CT

11. Paint Color

STD Paint Factory Silver

BLK Paint Factory Black

WHT Paint Factory White

RED Paint Factory Red

BLU Paint Factory Blue

****RAL** (please see page 3.36)

T3 PLUG-IN UNITS

METER BOXES: PRODUCT NUMBERS

M	B	NA	C	52	S	- 065
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Current Transformer
- M73 00 1 - STD <i>*Optional</i>						
8. Meter Release 9. Meter Options 10. Meter Configuration 11. Paint Color						

1. System (standard of measure)

M Metric

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 3.60**)

6. Orientation (what direction the paddle faces)

S Standard

7. Current Transformer (current rating)

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

8. Meter Release (M70 AC)

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

8. Meter Release (M70 DC)

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

9. Meter Options (M70 AC and DC)

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

continues...

9. Meter Options (M70 AC and DC)... continued

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

10. Meter Configuration and CT Type (M70 AC)

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral
8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Y, Solid CTs, Millivolt, Measured Neutral
C Y, Split CTs, 5A-secondary, Measured Neutral

10. Meter Configuration and CT Type (M70 DC)

J DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

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 3.36)

T3 PLUG-IN UNITS

TERMINAL BLOCK UNITS: PRODUCT NUMBERS

M	T	T3	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	-	M73	00	1	-	STD *Optional
	9. Lug Options	10. Meter Location	11. Accessories	*12. Meter Release	*13. Meter Options	*14. Meter Configuration	15. Paint Color		

1. System (standard of measure)

M Metric

2. Product Type (section component)

T Terminal Block

3. Compatibility (frame compatibility)

T3 T3 System

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 3.60**)

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

8. Poles (number of poles in a circuit)

4 4 poles

9. Lug Options (number of poles in a circuit)

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 **F** Finger Shroud
R IR Window **B** Finger Shroud + Pilot Light

*12. Meter Release (M70 AC)

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*12. Meter Release (M70 DC)

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*13. Meter Options (M70 AC and DC)

0A IPV6 **0F** IPV6 + WPA2E
0B DHCP **0J** DHCP + WPA2E
0C WPA2E **0H** IPV6 + WPA2E + DHCP
0E IPV6 + DHCP

00 Standard Features (IPV4 + No Accessories)

10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*14. Meter Configuration and CT Type (M70 AC)

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral
8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Y, Solid CTs, Millivolt, Measured Neutral
C Y, Split CTs, 5A-secondary, Measured Neutral

*14. Meter Configuration and CT Type (V70 DC)

J DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

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 3.36)

T3 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: PRODUCT NUMBERS

M	C	T3	C	52	S	-	14	AA	-	1	AA	-
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Protection Code	9. Device Quantity (1)	10. Device Code (1)			

1	AA	F	10	N	-	V71	00	-	STD	0	<i>*Optional</i>
11. Device Quantity (2)	12. Device Code (2)	13. Mount Location	14. Drop Cord Length	15. Accessories		*16. Meter Release	*17. Meter Options		18. Paint Color	19. Drop Cord Tape Marking	

1. System (standard of measure)

M Metric

2. Product Type (section component)

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

3. Compatibility (frame compatibility)

T3 T3 System

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 3.60**)

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)

8. Protection Code

AA, AB, ... ZZ (refer to protection code table **page 3.66**)

9. Device Quantity (quantity of device 1)

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

10. Device Code (for device 1)

AA, AB, ... ZZ (refer to device code table **page 3.65**)

11. Device Quantity (quantity of device 2)

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

12. Device Code (for device 2)

AA, AB, ... ZZ (refer to device code table **page 3.65**)

13. Mount Location (with respect to busway polarizing strip)

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

*14. Drop Cord Length (in increments of 0.1 metre)

XY: 02 = 0.2 m, 03 = 0.3 m, 04 = 0.4m... 10 = 1m...60 = 6m

15. Accessories (in increments of 0.1 metre)

N N/A **F** Finger Shroud
C Circuit Breaker Interlock **P** Padlock Adapter
S Seismic Hanger **R** IR Window
L Pilot Light **A** Auxiliary
T NETA Tested Breakers **B** F + L

*16. Meter Release (V70 AC)

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

*16. Meter Release (V70 DC)

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

*17. Meter Options (V70 AC and DC)

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP
00 Standard (IPV4 + No Accessories)
40 AC Supply Voltage Only – Breaker Sense (On/Off)
4A Breaker Sense + IPV6
4B Breaker Sense + DHCP
4C Breaker Sense + WPA2E
4E Breaker Sense + IPV6 + DHCP
4F Breaker Sense + IPV6 + WPA2E
4J Breaker Sense + DHCP + WPA2E
4H Breaker Sense + IPV6 + WPA2E + DHCP

18. 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 3.36)

*19. Drop Cord Tape Marking

3 Tape Factory Black **7** Tape Factory Blue
4 Tape Factory White **8** Tape Factory Green
6 Tape Factory Red **9** Tape Factory Yellow

T3 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: GROUND

M	C	T3	C	52	S	-	14	AA	-	1	AA	-
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Protection Code	9. Device Quantity (1)	10. Device Code (1)			
1	AA	F	10	N	-	V71	00	-	STD	0	*Optional	
11. Device Quantity (2)	12. Device Code (2)	13. Mount Location	14. Drop Cord Length	15. Accessories	*16. Meter Release	*17. Meter Options	18. Paint Color	19. Drop Cord Tape Marking				

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).

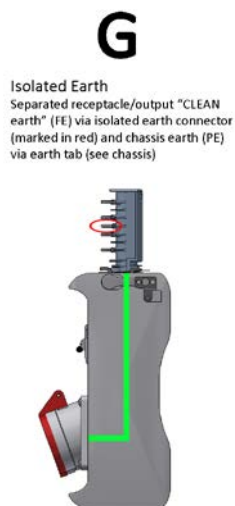
■ CASE GROUND/CHASSIS EARTH

Uses aluminum housing and no extra copper bar.



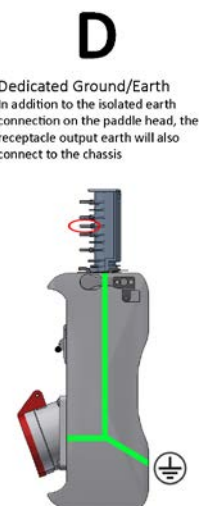
■ ISOLATED GROUND/EARTH

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/busway

T3 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: BOX

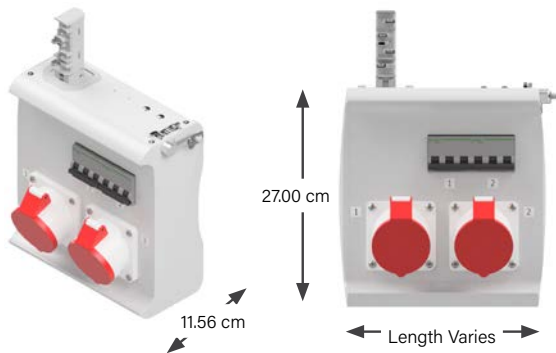
M	C	T3	C	52	S	-	14	AA	-	1	AA	-
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Protection Code	9. Device Quantity (1)	10. Device Code (1)			
1	AA	F	10	N	-	V71	00	-	STD	0	*Optional	
11. Device Quantity (2)	12. Device Code (2)	13. Mount Location	14. Drop Cord Length	15. Accessories	*16. Meter Release	*17. Meter Options	18. Paint Color	19. Drop Cord Tape Marking				

5. Box (what size enclosure)

01, 02, ... 99 (refer to enclosure reference **page 3.60**)

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

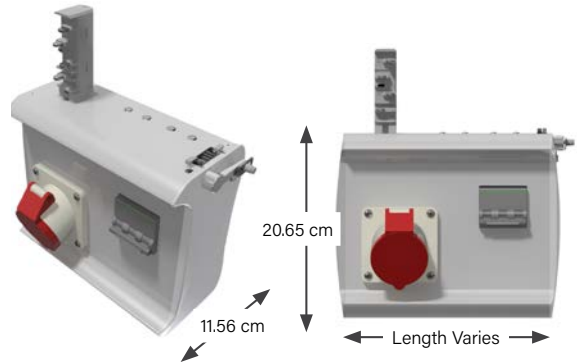
50 SERIES



BOX LENGTHS

51:	15.25 cm
52:	20.32 cm
53:	25.4 cm
54:	30.48 cm
55:	33.02 cm
56:	38.10 cm
57:	45.72 cm

90 SERIES



BOX LENGTHS

91:	15.25 cm
92:	20.32 cm
93:	25.4 cm
94:	30.48 cm
95:	33.02 cm
96:	38.10 cm
97:	45.72 cm

*For all box sizes and styles, please refer to **page 3.60**

T3 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: INTERRUPT RATING

M	C	T3	C	52	S	-	14	AA	-	1	AA	-
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Interrupt Rating	8. Protection Code		9. Device Quantity (1)	10. Device Code (1)	
1	AA	F	10	N	-	V71	00	-	STD	0	*Optional	
11. Device Quantity (2)	12. Device Code (2)	13. Mount Location	14. Drop Cord Length	15. Accessories		*16. Meter Release	*17. Meter Options		18. Paint Color	19. Drop Cord Tape Marking		

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. 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.



T3 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: DEVICE

M	C	T3	C	52	S	-	14	AA	-	1	AA	-
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Protection Code	9. Device Quantity (1)	10. Device Code (1)			
1	AA	F	10	N	-	V71	00	-	STD	0	*Optional	
11. Device Quantity (2)	12. Device Code (2)	13. Mount Location	14. Drop Cord Length	15. Accessories	*16. Meter Release	*17. Meter Options	18. Paint Color	19. Drop Cord Tape Marking				

9. Device Quantity (quantity of device 1)

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

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 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.



T3 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: MOUNT LOCATION

M	C	T3	C	52	S	-	14	AA	-	1	AA	-
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Protection Code	9. Device Quantity (1)	10. Device Code (1)			
1	AA	F	10	N	-	V71	00	-	STD	0	*Optional	
11. Device Quantity (2)	12. Device Code (2)	13. Mount Location	14. Drop Cord Length	15. Accessories	*16. Meter Release	*17. Meter Options	18. Paint Color	19. Drop Cord Tape Marking				

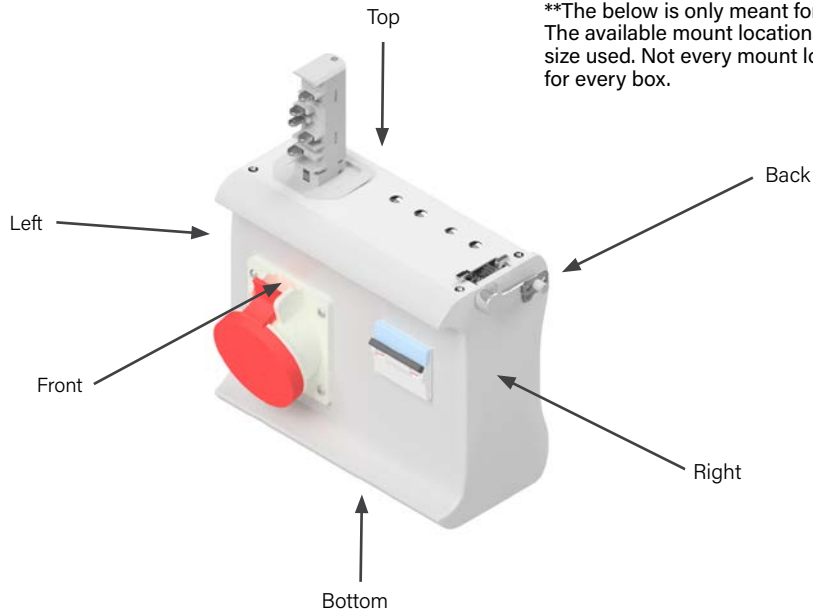
13. Mount Location *(with respect to busway polarizing stripe)*

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

IN OPTION 13. if you are required to specify the devices desired location on the plug.

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

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



****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.**

T3 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: ACCESSORIES

M	C	T3	C	52	S	-	14	AA	-	1	AA	-
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Protection Code	9. Device Quantity (1)	10. Device Code (1)			
1	AA	F	10	N	-	V71	00	-	STD	0	*Optional	
11. Device Quantity (2)	12. Device Code (2)	13. Mount Location	14. Drop Cord Length	15. Accessories	*16. Meter Release	*17. Meter Options	18. Paint Color	19. Drop Cord Tape Marking				

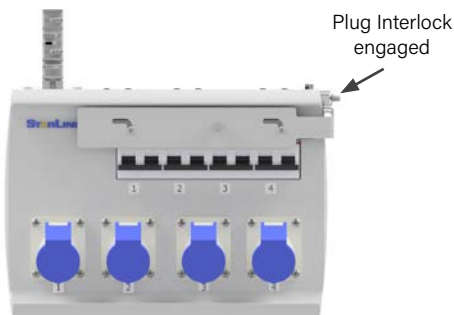
15. Accessories (in increments of 0.1 metre)

N	N/A	F	Finger Shroud
C	Circuit Breaker Interlock	P	Padlock Adapter
S	Seismic Hanger	R	IR Window
L	Pilot Light	A	Auxiliary
T	NETA Tested Breakers	B	F + L

IN OPTION 15, you have the option to choose an accessory:

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

CIRCUIT BREAKER INTERLOCK



PILOT LIGHT



FINGER SHROUD



PADLOCK ADAPTER FOR CIRCUIT BREAKER LOCK-OUT



SEISMIC HANGER



IR WINDOW



T3 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: METER RELEASE

M	C	T3	C	52	S	-	14	AA	-	1	AA	-
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Protection Code	9. Device Quantity (1)	10. Device Code (1)			
1	AA	F	10	N	-	V71	00	-	STD	0	*Optional	
11. Device Quantity (2)	12. Device Code (2)	13. Mount Location	14. Drop Cord Length	15. Accessories	*16. Meter Release	*17. Meter Options	18. Paint Color	19. Drop Cord Tape Marking				

*16. Meter Release (V70 AC)

- V71** (2) RJ11, (2) RJ45, No Display, 480vac
- V72** (2) RJ11, (2) RJ45, Display, 480vac
- V74** Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
- V75** Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

*16. Meter Release (V70 DC)

- V7A** (2) RJ11, (2) RJ45, No Display, 48vdc
- V7B** (2) RJ11, (2) RJ45, Display, 48vdc
- V7D** Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
- V7E** Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
- V7H** (2) RJ11, (2) RJ45, No Display, 400vdc
- V7I** (2) RJ11, (2) RJ45, Display, 400vdc
- V7K** Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
- V7L** Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

*17. Meter Options (V70 AC and DC)

- 0A** IPV6
- 0B** DHCP
- 0C** WPA2E
- 0E** IPV6 + DHCP
- 0F** IPV6 + WPA2E
- 0J** DHCP + WPA2E
- 0H** IPV6 + WPA2E + DHCP
- 00** Standard (IPV4 + No Accessories)
- 40** AC Supply Voltage Only – Breaker Sense (On/Off)
- 4A** Breaker Sense + IPV6
- 4B** Breaker Sense + DHCP
- 4C** Breaker Sense + WPA2E
- 4E** Breaker Sense + IPV6 + DHCP
- 4F** Breaker Sense + IPV6 + WPA2E
- 4J** Breaker Sense + DHCP + WPA2E
- 4H** Breaker Sense + IPV6 + WPA2E + DHCP

IN OPTION 16. You are able to select metering for your plug-in unit. V70 series meters are available for plug-in units.

Communications Interfaces include:

- (2) RJ11
- (2) RJ45 (Ethernet)
- Wireless (Optional)

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

V70 series meters also have the capability to sense circuit breaker position (on/off) for up to two outlets.



V71
(2) RJ11,
(2) RJ45,
No Display

V72
(2) RJ11,
(2) RJ45,
Display

V74
Wi-Fi +
(2) RJ11,
(2) RJ45,
No Display

V75
Wi-Fi +
(2) RJ11,
(2) RJ45,
Display

CIRCUIT BREAKER UNITS, NO DEVICES: PRODUCT NUMBERS

1. System (<i>standard of measure</i>)	
M	Metric
2. Product Type (<i>section component</i>)	
C	Circuit Breaker Unit
F	Fused Disconnect Unit
3. Compatibility (<i>frame compatibility</i>)	
T3	T3 System
K5	T3 System (Limiting Strip)
R5	T3 System (Rotating Paddle)
Z5	K5 + R5
4. Ground (<i>ground type installed</i>)	
C	Case (Housing) Ground
D	Dedicated Ground
G	Isolated (Separate) Ground
5. Box (<i>what size enclosure</i>)	
01, 02, ... 99 (refer to enclosure reference page 3.60)	
6. Orientation (<i>what direction the paddle faces</i>)	
S	Standard
R	Reversed
7. Interrupt Rating (<i>interrupt rating of the breakers in K</i>)	
10, 14, 22, 25, 30, 35, 50, 65, CC (CC = 200,000)	
8. Protection Code	
AA, AB,ZZ (refer to protection codes table page 3.66)	
9. Circuit Protection Quantity	
1, 2, 3, 4, 5, 6	
10. Amperage	
16, 32, 63, 125	
11. Poles (<i>number of poles in a circuit</i>)	
1, 2, 3, 4, 5	
12. Voltage	
415	
*13. Drop Cord Length (<i>in increments of 0.1 metre</i>)	
XY: 02 = 0.2 m, 03 = 0.3 m, 04 = 0.4m... 10 = 1m...60 = 6m	
*14. Number of Wires (<i>V70 AC</i>)	
2, 3, 4, 5	
15. Accessories (<i>optional accessories for plugs</i>)	
N	N/A
C	Circuit Breaker Interlock
F	Finger Shroud
P	Padlock Adapter for Circuit Breaker
S	Seismic Hanger
R	IR Window
T	NETA Tested Breakers
A	Auxiliary
L	Pilot Light
B	F + L
*16. Meter Release (<i>V70 AC</i>)	
V71	(2) RJ11, (2) RJ45, No Display, 480vac
V72	(2) RJ11, (2) RJ45, Display, 480vac
V74	Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75	Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac
*16. Meter Release (<i>V70 DC</i>)	
V7A	(2) RJ11, (2) RJ45, No Display, 48vdc
V7B	(2) RJ11, (2) RJ45, Display, 48vdc
V7D	Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E	Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H	(2) RJ11, (2) RJ45, No Display, 400vdc
V7I	(2) RJ11, (2) RJ45, Display, 400vdc
V7K	Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L	Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc
*17. Meter Options (<i>V70 AC and DC</i>)	
0A	IPV6
0B	DHCP
0C	WPA2E
0E	IPV6 + DHCP
0F	IPV6 + WPA2E
0J	DHCP + WPA2E
0H	IPV6 + WPA2E + DHCP
00	Standard (IPV4 + No Accessories)
40	AC Supply Voltage Only – Breaker Sense (On/Off)
4A	Breaker Sense + IPV6
4B	Breaker Sense + DHCP
4C	Breaker Sense + WPA2E
4E	Breaker Sense + IPV6 + DHCP
4F	Breaker Sense + IPV6 + WPA2E
4J	Breaker Sense + DHCP + WPA2E
4H	Breaker Sense + IPV6 + WPA2E + DHCP
18. Paint Color	
STD	Paint Factory Silver
BLK	Paint Factory Black
WHT	Paint Factory White
RED	Paint Factory Red
BLU	Paint Factory Blue
**RAL	(please see page 3.36)
*19. Drop Cord Tape Marking	
3	Black
4	White
6	Red
7	Blue
8	Green

T3 PLUG-IN UNITS

CORDED METERS

M	CCPM	V71	00	1	-	L515	C	-	XXXX	-	C	-	BLK
1. System	2. Product Type	3. Meter Release	4. Meter Options	5. System Voltage		6. Wiring Device or Cord Set	7. Device Style		8. Length (end to end)		9. Meter Location on the Cord		10. Paint Color

1. System (standard of measure)

M Metric

2. Product Type (section component)

CCPM Corded CPM

3. Meter Release (V70 AC)

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

3. Meter Release (V70 DC)

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

4. Meter Options

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)

10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

5. System Voltage

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

6. Wiring Device or Cord Set

Options listed on **page 3.65**

7. Device Style

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

8. Length (end to end)

XXXX 0010 = 1 metre, 0015 = 1.5 metre, 0020 = 2 metre, 0060 = 6 metre (available in half metre increments, 6 metre max)

9. Meter Location on the Cord

C Center **T** Top
B Bottom

10. 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 3.36)



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 V70 meter features, communication options and accessories are available except for measured neutral.

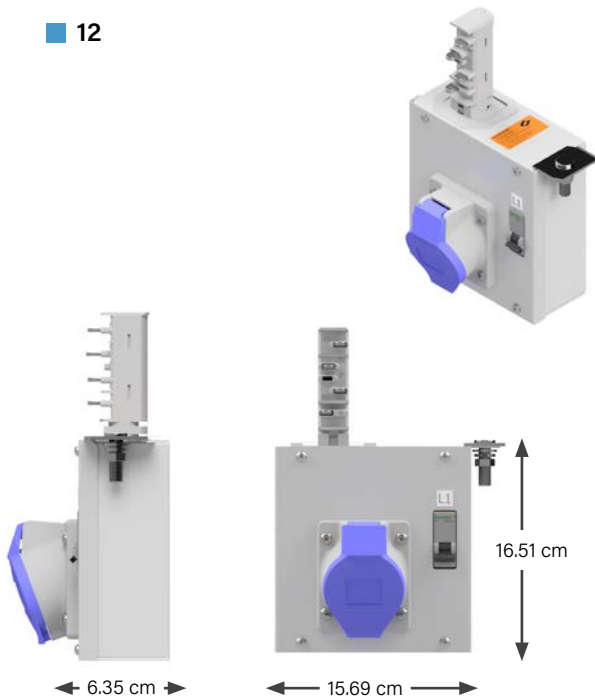
Box Size: There are two different Corded CPM box sizes. The smaller is designed for single phase (2 pole/3 wire, 1 pole+N/3W) wiring devices rated from 0-32A & 0-480V. The color is black unless specified. The larger enclosure is designed for all other configurations. These include single phase (2 pole/3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

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

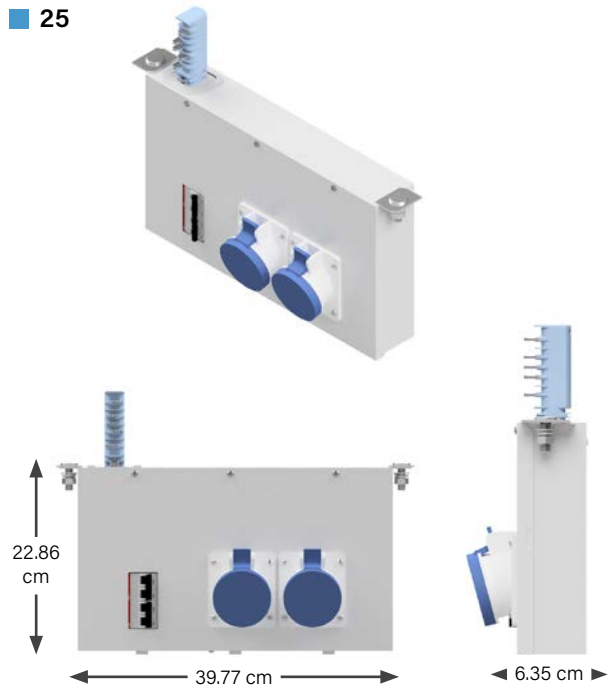
T3 PLUG-IN UNITS

BOX SIZES & STYLES

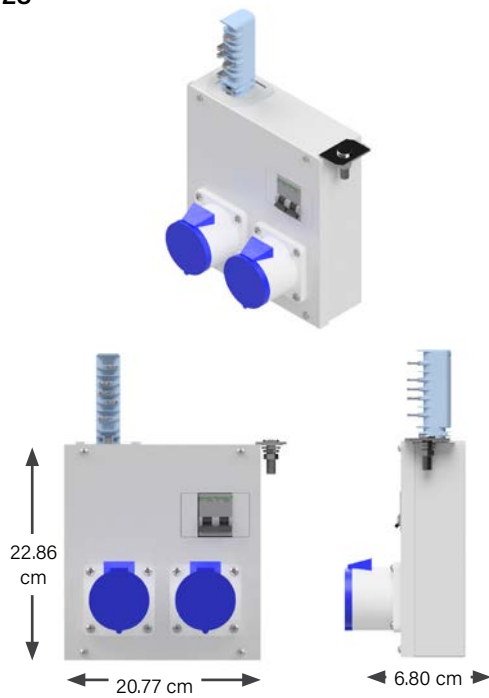
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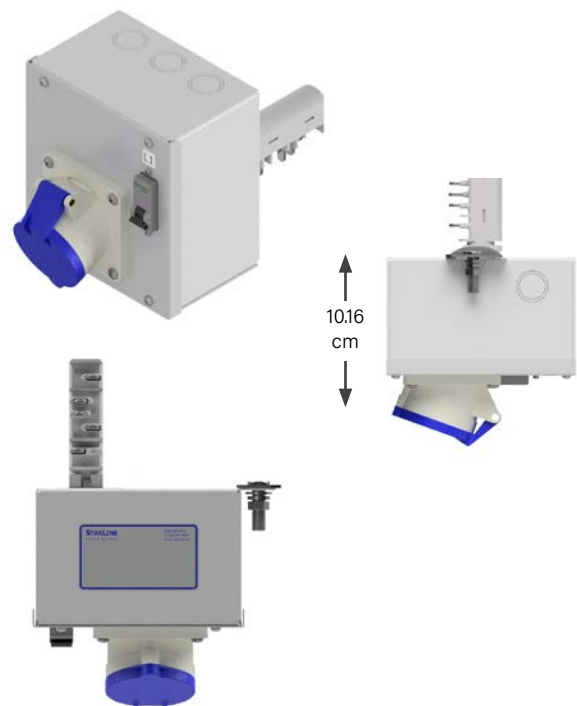
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■ 28



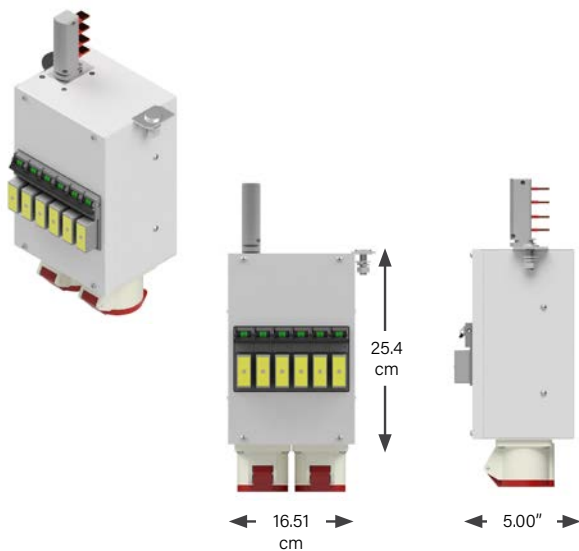
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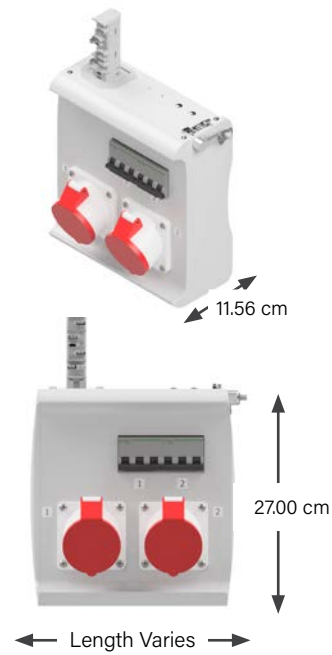
T3 PLUG-IN UNITS

BOX SIZES & STYLES

■ 37



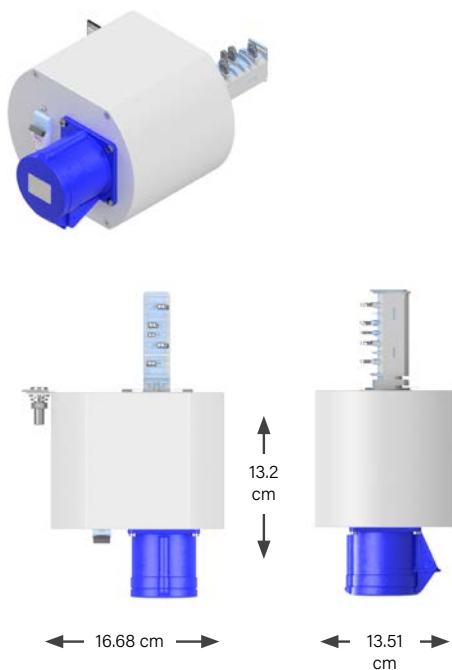
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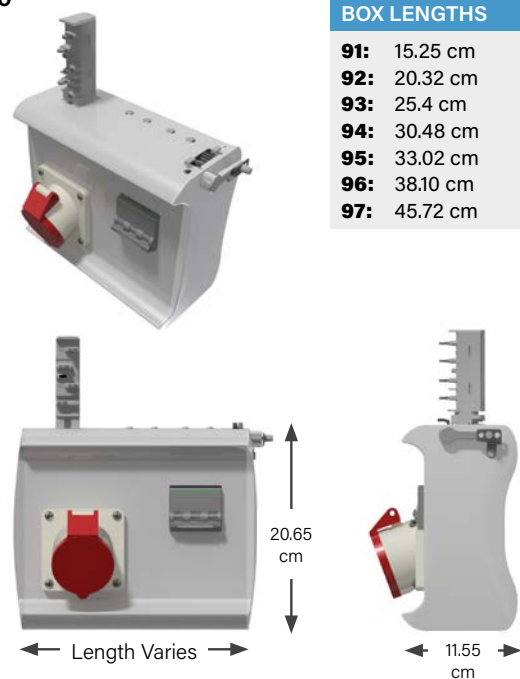
BOX LENGTHS

51:	15.25 cm
52:	20.32 cm
53:	25.4 cm
54:	30.48 cm
55:	33.02 cm
56:	38.10 cm
57:	45.72 cm

■ 70



■ 90



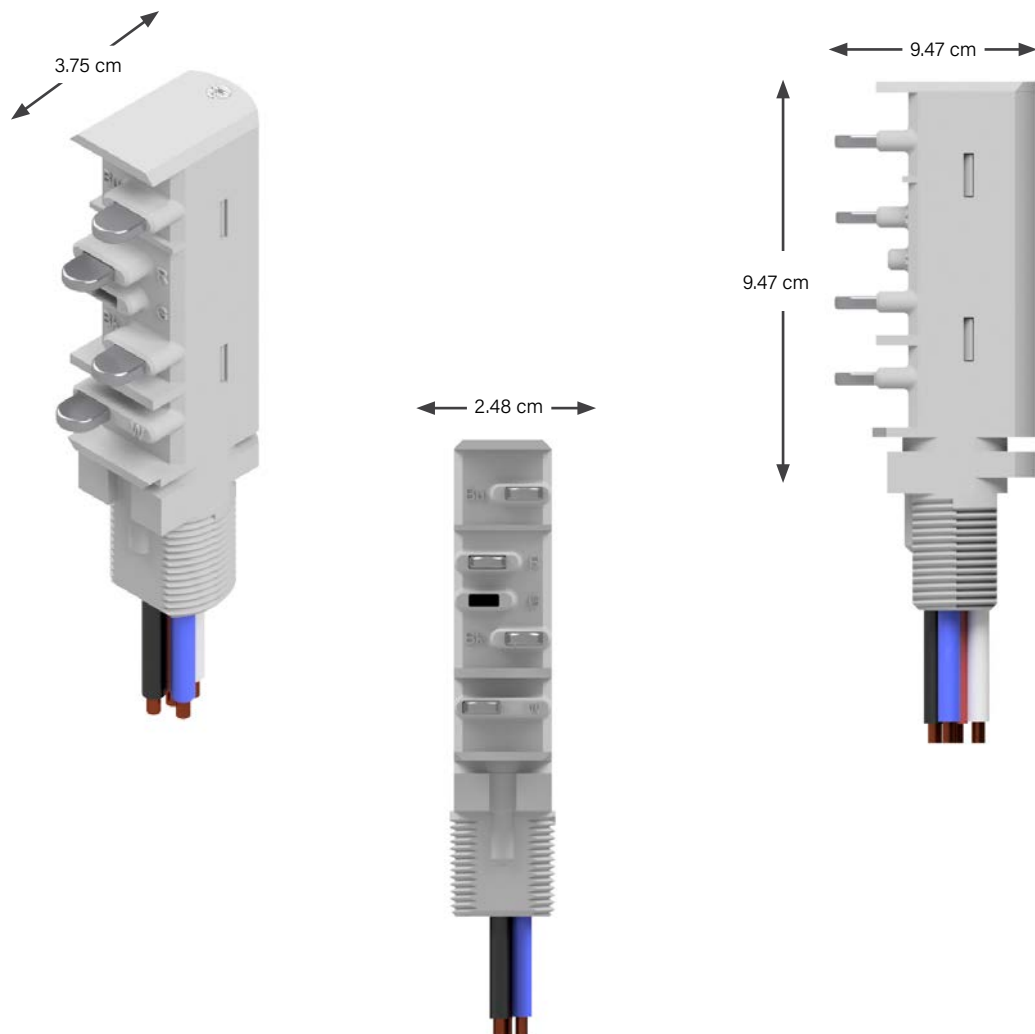
BOX LENGTHS

91:	15.25 cm
92:	20.32 cm
93:	25.4 cm
94:	30.48 cm
95:	33.02 cm
96:	38.10 cm
97:	45.72 cm

T3 PLUG-IN UNITS

BOX SIZES & STYLES

■ T3 PADDLE



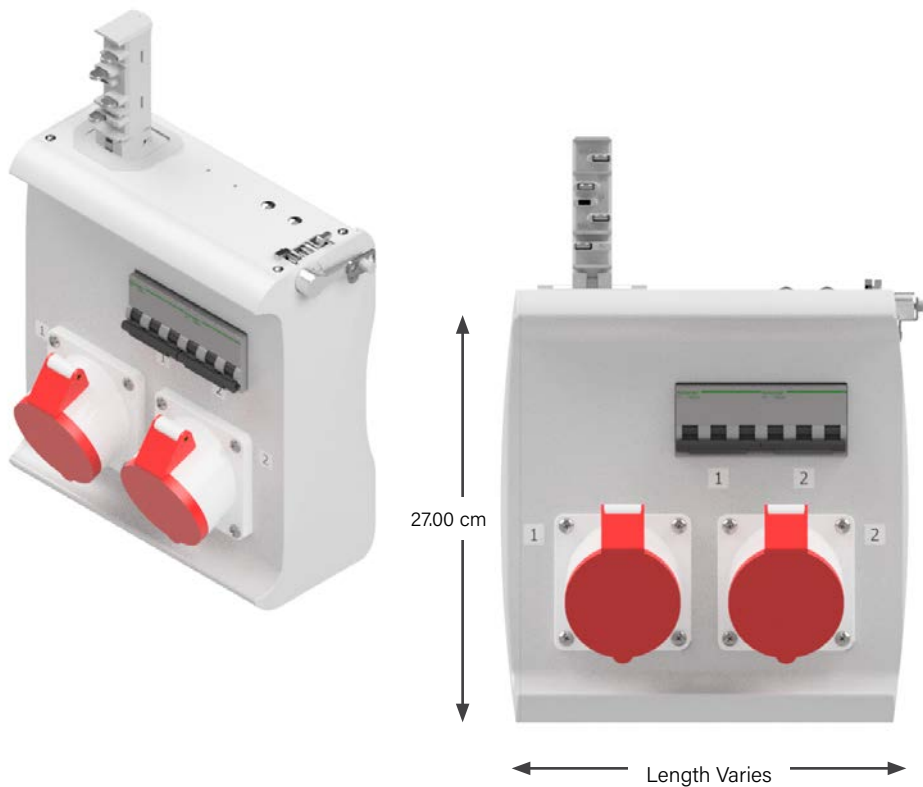
T3 PLUG-IN UNITS

50 SERIES ENCLOSURE CUT SHEET

■ PRODUCT DESCRIPTION

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

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



BOX LENGTHS

51:	15.25 cm
52:	20.32 cm
53:	25.4 cm
54:	30.48 cm
55:	33.02 cm
56:	38.10 cm
57:	45.72 cm

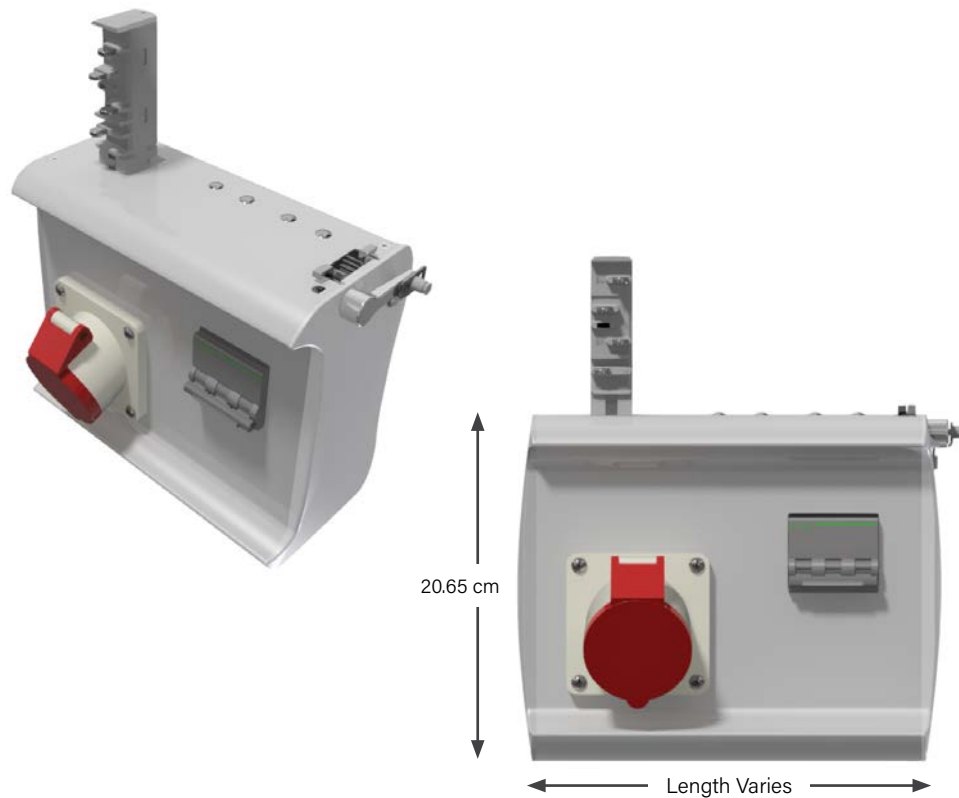
T3 PLUG-IN UNITS

90 SERIES ENCLOSURE CUT SHEET

■ PRODUCT DESCRIPTION

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

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



BOX LENGTHS

91:	15.25 cm
92:	20.32 cm
93:	25.4 cm
94:	30.48 cm
95:	33.02 cm
96:	38.10 cm
97:	45.72 cm

T3 PLUG-IN UNITS

DEVICE CODE TABLE

Pin & Sleeve Receptacles							
Code	Convention	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
TW	Pin & Sleeve	316R6S	Straight Receptacle	240/415	16	1PNG	IP44
TY	Pin & Sleeve	316A6S	Angled Receptacle	240/415	16	1PNG	IP44
TZ	Pin & Sleeve	516R6S	Straight Receptacle	240/415	16	3PNG	IP44
UB	Pin & Sleeve	516A6S	Angled Receptacle	240/415	16	3PNG	IP44
UC	Pin & Sleeve	332R6S	Straight Receptacle	240/415	32	1PNG	IP44
UE	Pin & Sleeve	332A6S	Angled Receptacle	240/415	32	1PNG	IP44
UF	Pin & Sleeve	532R6S	Straight Receptacle	240/415	32	3PNG	IP44
UH	Pin & Sleeve	532A6S	Angled Receptacle	240/415	32	3PNG	IP44
VI	Pin & Sleeve	363A6W	Angled Receptacle	240/415	63	1PNG	IP67
UL	Pin & Sleeve	563R6S	Straight Receptacle	240/415	63	3PNG	IP44
VL	Pin & Sleeve	563A6W	Angled Receptacle	240/415	63	3PNG	IP67
VM	Pin & Sleeve	3125R6W	Straight Receptacle	240/415	125	1PNG	IP67
VP	Pin & Sleeve	5125R6W	Straight Receptacle	240/415	125	3PNG	IP67
VR	Pin & Sleeve	5125A6W	Angled Receptacle	240/415	125	3PNG	IP67

Pin & Sleeve Connectors							
Code	Convention	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
TX	Pin & Sleeve	316C6S	Connector	240/415	16	1PNG	IP44
UA	Pin & Sleeve	516C6S	Connector	240/415	16	3PNG	IP44
UD	Pin & Sleeve	332C6S	Connector	240/415	32	1PNG	IP44
UG	Pin & Sleeve	532C6S	Connector	240/415	32	3PNG	IP44
UJ	Pin & Sleeve	363C6S	Connector	240/415	63	1PNG	IP44
VV	Pin & Sleeve	563C6W	Connector	240/415	63	3PNG	IP67
VN	Pin & Sleeve	3125C6W	Connector	240/415	125	1PNG	IP67
VQ	Pin & Sleeve	5125C6W	Connector	240/415	125	3PNG	IP67
ZW	Pin & Sleeve	Schuko 316CS	Connector	240/415	16	1PNG	IP44

WIRING CONFIGURATION REFERENCE TABLE

1 = Number of poles

P = Poles

N = Neutral

G = Ground

T3 PLUG-IN UNITS

PROTECTION CODE TABLE

Miniature Circuit Breaker - MCB					
Code	Type	Trip Style	Curve	Brand	Neutral Switch
AA	MCB	Thermal	C	ABB	No
AB	MCB	Thermal	C	SE	No
AC	MCB	Thermal	C	LEG	No
AD	MCB	Thermal	D	ABB	No
AE	MCB	Thermal	D	SE	No
AF	MCB	Thermal	D	LEG	No
AH	MCB	Thermal	C	ABB	Yes
AI	MCB	Thermal	C	SE	Yes
AJ	MCB	Thermal	C	LEG	Yes
AK	MCB	Thermal	D	ABB	Yes
AL	MCB	Thermal	D	SE	Yes
AM	MCB	Thermal	D	LEG	Yes

MCB with Residual Current Circuit Breaker - RCCB							
Code	Type	TripStyle	Curve	Brand	Sensitivity	Waveform	NeutralSwitch
AN	RCCB	Thermal	C	ABB	30 mA	Type A	Yes
AO	RCCB	Thermal	C	ABB	30 mA	Type AC	Yes
AP	RCCB	Thermal	C	ABB	30 mA	Type A AP-R High Immunity	Yes
AQ	RCCB	Thermal	C	ABB	100 mA	Type A	Yes
AR	RCCB	Thermal	C	ABB	100 mA	Type AC	Yes
AS	RCCB	Thermal	C	ABB	100 mA	Type A AP-R High Immunity	Yes
AT	RCCB	Thermal	C	ABB	300 mA	Type A	Yes
AU	RCCB	Thermal	C	ABB	300 mA	Type AC	Yes
AV	RCCB	Thermal	C	ABB	300 mA	Type A AP-R High Immunity	Yes
AW	RCCB	Thermal	C	SE	30 mA	Type A	Yes
AX	RCCB	Thermal	C	SE	30 mA	Type AC	Yes
AY	RCCB	Thermal	C	SE	30 mA	Type A Super Immunized (SI)	Yes
AZ	RCCB	Thermal	C	SE	100 mA	Type A	Yes
BA	RCCB	Thermal	C	SE	100 mA	Type AC	Yes
BB	RCCB	Thermal	C	SE	100 mA	Type A Super Immunized (SI)	Yes
BC	RCCB	Thermal	C	SE	300 mA	Type A	Yes
BD	RCCB	Thermal	C	SE	300 mA	Type AC	Yes
BE	RCCB	Thermal	C	SE	300 mA	Type A Super Immunized (SI)	Yes
BF	RCCB	Thermal	C	LEG	30 mA	Type A	Yes
BG	RCCB	Thermal	C	LEG	30 mA	Type AC	Yes
BH	RCCB	Thermal	C	LEG	30 mA	Type F High Immunity	Yes
BI	RCCB	Thermal	C	LEG	100 mA	Type A	Yes
BJ	RCCB	Thermal	C	LEG	100 mA	Type AC	Yes
BK	RCCB	Thermal	C	LEG	100 mA	Type F High Immunity	Yes
BL	RCCB	Thermal	C	LEG	300 mA	Type A	Yes
BM	RCCB	Thermal	C	LEG	300 mA	Type AC	Yes
BN	RCCB	Thermal	C	LEG	300 mA	Type F High Immunity	Yes
BO	RCCB	Thermal	D	ABB	30 mA	Type A	Yes
BP	RCCB	Thermal	D	ABB	30 mA	Type AC	Yes
BQ	RCCB	Thermal	D	ABB	30 mA	Type A AP-R High Immunity	Yes
BR	RCCB	Thermal	D	ABB	100 mA	Type A	Yes
BS	RCCB	Thermal	D	ABB	100 mA	Type AC	Yes
BT	RCCB	Thermal	D	ABB	100 mA	Type A AP-R High Immunity	Yes
BU	RCCB	Thermal	D	ABB	300 mA	Type A	Yes
BV	RCCB	Thermal	D	ABB	300 mA	Type AC	Yes
BW	RCCB	Thermal	D	ABB	300 mA	Type A AP-R High Immunity	Yes
BX	RCCB	Thermal	D	SE	30 mA	Type A	Yes
BY	RCCB	Thermal	D	SE	30 mA	Type AC	Yes
BZ	RCCB	Thermal	D	SE	30 mA	Type A Super Immunized (SI)	Yes

T3 PLUG-IN UNITS

PROTECTION CODE TABLE

MCB with Residual Current Circuit Breaker - RCCB (Continued)							
Code	Type	TripStyle	Curve	Brand	Sensitivity	Waveform	NeutralSwitch
CA	RCCB	Thermal	D	SE	100 mA	Type A	Yes
CB	RCCB	Thermal	D	SE	100 mA	Type AC	Yes
CC	RCCB	Thermal	D	SE	100 mA	Type A Super Immunized (SI)	Yes
CD	RCCB	Thermal	D	SE	300 mA	Type A	Yes
CE	RCCB	Thermal	D	SE	300 mA	Type AC	Yes
CF	RCCB	Thermal	D	SE	300 mA	Type A Super Immunized (SI)	Yes
CG	RCCB	Thermal	D	LEG	30 mA	Type A	Yes
CH	RCCB	Thermal	D	LEG	30 mA	Type AC	Yes
CI	RCCB	Thermal	D	LEG	30 mA	Type F High Immunity	Yes
CJ	RCCB	Thermal	D	LEG	100 mA	Type A	Yes
CK	RCCB	Thermal	D	LEG	100 mA	Type AC	Yes
CL	RCCB	Thermal	D	LEG	100 mA	Type F High Immunity	Yes
CM	RCCB	Thermal	D	LEG	300 mA	Type A	Yes
CN	RCCB	Thermal	D	LEG	300 mA	Type AC	Yes
CO	RCCB	Thermal	D	LEG	300 mA	Type F High Immunity	Yes
CP	RCCB	Electronic	-	ABB	-	-	No
CQ	RCCB	Electronic	-	SE	-	-	No
CR	RCCB	Electronic	-	LEG	-	-	No

MCB with Residual Current Device - RCD							
Code	Type	TripStyle	Curve	Brand	Sensitivity	Waveform	NeutralSwitch
CS	RCD	Thermal	C	ABB	30 mA	Type A	Yes
CT	RCD	Thermal	C	ABB	30 mA	Type AC	Yes
CU	RCD	Thermal	C	ABB	30 mA	Type A AP-R High Immunity	Yes
CV	RCD	Thermal	C	ABB	100 mA	Type A	Yes
CW	RCD	Thermal	C	ABB	100 mA	Type AC	Yes
CX	RCD	Thermal	C	ABB	100 mA	Type A AP-R High Immunity	Yes
CY	RCD	Thermal	C	ABB	300 mA	Type A	Yes
CZ	RCD	Thermal	C	ABB	300 mA	Type AC	Yes
DA	RCD	Thermal	C	ABB	300 mA	Type A AP-R High Immunity	Yes
DB	RCD	Thermal	C	SE	30 mA	Type A	Yes
DC	RCD	Thermal	C	SE	30 mA	Type AC	Yes
DD	RCD	Thermal	C	SE	30 mA	Type A Super Immunized (SI)	Yes
DE	RCD	Thermal	C	SE	100 mA	Type A	Yes
DF	RCD	Thermal	C	SE	100 mA	Type AC	Yes
DG	RCD	Thermal	C	SE	100 mA	Type A Super Immunized (SI)	Yes
DH	RCD	Thermal	C	SE	300 mA	Type A	Yes
DI	RCD	Thermal	C	SE	300 mA	Type AC	Yes
DJ	RCD	Thermal	C	SE	300 mA	Type A Super Immunized (SI)	Yes
DK	RCD	Thermal	C	LEG	30 mA	Type A	Yes
DL	RCD	Thermal	C	LEG	30 mA	Type AC	Yes
DM	RCD	Thermal	C	LEG	30 mA	Type F High Immunity	Yes
DN	RCD	Thermal	C	LEG	100 mA	Type A	Yes
DO	RCD	Thermal	C	LEG	100 mA	Type AC	Yes
DP	RCD	Thermal	C	LEG	100 mA	Type F High Immunity	Yes
DQ	RCD	Thermal	C	LEG	300 mA	Type A	Yes
DR	RCD	Thermal	C	LEG	300 mA	Type AC	Yes
DS	RCD	Thermal	C	LEG	300 mA	Type F High Immunity	Yes
DT	RCD	Thermal	D	ABB	30 mA	Type A	Yes
DU	RCD	Thermal	D	ABB	30 mA	Type AC	Yes
DV	RCD	Thermal	D	ABB	30 mA	Type A AP-R High Immunity	Yes
DW	RCD	Thermal	D	ABB	100 mA	Type A	Yes
DX	RCD	Thermal	D	ABB	100 mA	Type AC	Yes
DY	RCD	Thermal	D	ABB	100 mA	Type A AP-R High Immunity	Yes
DZ	RCD	Thermal	D	ABB	300 mA	Type A	Yes

T3 PLUG-IN UNITS

PROTECTION CODE TABLE

MCB with Residual Current Device - RCD (Continued)							
Code	Type	TripStyle	Curve	Brand	Sensitivity	Waveform	NeutralSwitch
EA	RCD	Thermal	D	ABB	300 mA	Type AC	Yes
EB	RCD	Thermal	D	ABB	300 mA	Type A AP-R High Immunity	Yes
EC	RCD	Thermal	D	SE	30 mA	Type A	Yes
ED	RCD	Thermal	D	SE	30 mA	Type AC	Yes
EE	RCD	Thermal	D	SE	30 mA	Type A Super Immunized (SI)	Yes
EF	RCD	Thermal	D	SE	100 mA	Type A	Yes
EG	RCD	Thermal	D	SE	100 mA	Type AC	Yes
EH	RCD	Thermal	D	SE	100 mA	Type A Super Immunized (SI)	Yes
EI	RCD	Thermal	D	SE	300 mA	Type A	Yes
EJ	RCD	Thermal	D	SE	300 mA	Type AC	Yes
EK	RCD	Thermal	D	SE	300 mA	Type A Super Immunized (SI)	Yes
EL	RCD	Thermal	D	LEG	30 mA	Type A	Yes
EM	RCD	Thermal	D	LEG	30 mA	Type AC	Yes
EN	RCD	Thermal	D	LEG	30 mA	Type F High Immunity	Yes
EO	RCD	Thermal	D	LEG	100 mA	Type A	Yes
EP	RCD	Thermal	D	LEG	100 mA	Type AC	Yes
EQ	RCD	Thermal	D	LEG	100 mA	Type F High Immunity	Yes
ER	RCD	Thermal	D	LEG	300 mA	Type A	Yes
ES	RCD	Thermal	D	LEG	300 mA	Type AC	Yes
ET	RCD	Thermal	D	LEG	300 mA	Type F High Immunity	Yes
EU	RCD	Electronic	-	ABB	-	-	No
EV	RCD	Electronic	-	SE	-	-	No
EW	RCD	Electronic	-	LEG	-	-	No

Residual Current Breaker with Overcurrent - RCBO							
Code	Type	TripStyle	Curve	Brand	Sensitivity	Waveform	NeutralSwitch
EX	RCBO	Thermal	C	ABB	30 mA	Type A	Yes
EY	RCBO	Thermal	C	ABB	30 mA	Type A AP-R High Immunity	Yes
EZ	RCBO	Thermal	C	ABB	100 mA	Type A	Yes
FA	RCBO	Thermal	C	ABB	100 mA	Type A AP-R High Immunity	Yes
FB	RCBO	Thermal	C	ABB	300 mA	Type A	Yes
FC	RCBO	Thermal	C	ABB	300 mA	Type A AP-R High Immunity	Yes
FD	RCBO	Thermal	C	SE	30 mA	Type A	Yes
FE	RCBO	Thermal	C	SE	30 mA	Type A Super Immunized (SI)	Yes
FF	RCBO	Thermal	C	SE	100 mA	Type A	Yes
FG	RCBO	Thermal	C	SE	100 mA	Type A Super Immunized (SI)	Yes
FH	RCBO	Thermal	C	SE	300 mA	Type A	Yes
FI	RCBO	Thermal	C	SE	300 mA	Type A Super Immunized (SI)	Yes
FJ	RCBO	Thermal	C	LEG	30 mA	Type A	Yes
FK	RCBO	Thermal	C	LEG	30 mA	Type F High Immunity	Yes
FL	RCBO	Thermal	C	LEG	100 mA	Type A	Yes
FM	RCBO	Thermal	C	LEG	100 mA	Type F High Immunity	Yes
FN	RCBO	Thermal	C	LEG	300 mA	Type A	Yes
FO	RCBO	Thermal	C	LEG	300 mA	Type F High Immunity	Yes
FP	RCBO	Thermal	D	ABB	30 mA	Type A	Yes
FQ	RCBO	Thermal	D	ABB	30 mA	Type A AP-R High Immunity	Yes
FR	RCBO	Thermal	D	ABB	100 mA	Type A	Yes
FS	RCBO	Thermal	D	ABB	100 mA	Type A AP-R High Immunity	Yes
FT	RCBO	Thermal	D	ABB	300 mA	Type A	Yes
FU	RCBO	Thermal	D	ABB	300 mA	Type A AP-R High Immunity	Yes
FV	RCBO	Thermal	D	SE	30 mA	Type A	Yes
FW	RCBO	Thermal	D	SE	30 mA	Type A Super Immunized (SI)	Yes
FX	RCBO	Thermal	D	SE	100 mA	Type A	Yes
FY	RCBO	Thermal	D	SE	100 mA	Type A Super Immunized (SI)	Yes
FZ	RCBO	Thermal	D	SE	300 mA	Type A	Yes

T3 PLUG-IN UNITS

PROTECTION CODE TABLE

Residual Current Breaker with Overcurrent - RCBO (Continued)							
Code	Type	TripStyle	Curve	Brand	Sensitivity	Waveform	NeutralSwitch
GA	RCBO	Thermal	D	SE	300 mA	Type A Super Immunized (SI)	Yes
GB	RCBO	Thermal	D	LEG	30 mA	Type A	Yes
GC	RCBO	Thermal	D	LEG	30 mA	Type F High Immunity	Yes
GD	RCBO	Thermal	D	LEG	100 mA	Type A	Yes
GE	RCBO	Thermal	D	LEG	100 mA	Type F High Immunity	Yes
GF	RCBO	Thermal	D	LEG	300 mA	Type A	Yes
GG	RCBO	Thermal	D	LEG	300 mA	Type F High Immunity	Yes

Molded Case Circuit Breaker - MCCB				
Code	Type	TripStyle	Brand	NeutralSwitch
GH	MCCB	Electronic	ABB	No
GI	MCCB	Electronic	SE	No
GJ	MCCB	Electronic	LEG	No
GK	MCCB	Thermal Fixed	ABB	No
GL	MCCB	Thermal Fixed	SE	No
GM	MCCB	Thermal Fixed	LEG	No
GN	MCCB	Thermal Adjustable	ABB	No
GO	MCCB	Thermal Adjustable	SE	No
GP	MCCB	Thermal Adjustable	LEG	No

Fuses								
Code	Type	TripStyle	Brand	Indicator	Protected NeutralSwitch	MAX Amperage	Utilization Category	Isolator Switch
GQ	FUSE	gG IEC 60269 Fuse	ABB	-	No	32	AC-22 B	-
GR	FUSE	gG IEC 60269 Fuse	ABB	LED	No	32	AC-22 B	-
GS	FUSE	gG IEC 60269 Fuse	ABB	-	Yes	32	AC-22 B	-
GT	FUSE	gG IEC 60269 Fuse	ABB	LED	Yes	32	AC-22 B	-
GU	FUSE	gG IEC 60269 Fuse	ABB	-	No	50	AC-20 B	Yes
GV	FUSE	gG IEC 60269 Fuse	ABB	LED	No	50	AC-20 B	Yes
GW	FUSE	gG IEC 60269 Fuse	ABB	-	Yes	50	AC-20 B	Yes
GX	FUSE	gG IEC 60269 Fuse	ABB	LED	Yes	50	AC-20 B	Yes
GY	FUSE	gG IEC 60269 Fuse	ABB	-	No	50	AC-20 B	No
GZ	FUSE	gG IEC 60269 Fuse	ABB	LED	No	50	AC-20 B	No
HA	FUSE	gG IEC 60269 Fuse	ABB	-	Yes	50	AC-20 B	No
HB	FUSE	gG IEC 60269 Fuse	ABB	LED	Yes	50	AC-20 B	No
HC	FUSE	gG IEC 60269 Fuse	ABB	-	No	125	AC-20 B	Yes
HD	FUSE	gG IEC 60269 Fuse	ABB	LED	No	125	AC-20 B	Yes
HE	FUSE	gG IEC 60269 Fuse	ABB	-	Yes	125	AC-20 B	Yes
HF	FUSE	gG IEC 60269 Fuse	ABB	LED	Yes	125	AC-20 B	Yes
HG	FUSE	gG IEC 60269 Fuse	ABB	-	No	125	AC-20 B	No
HI	FUSE	gG IEC 60269 Fuse	ABB	LED	No	125	AC-20 B	No
HJ	FUSE	gG IEC 60269 Fuse	ABB	-	Yes	125	AC-20 B	No
HK	FUSE	gG IEC 60269 Fuse	ABB	LED	Yes	125	AC-20 B	No

T5 SERIES

T5 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:

IEC 61439-1, 61439-6

CCC GB7251.6-2015

CSA C22.2 No. 27

NMX-J-148-1998-ANCE

UL 857, Ed. 13

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 IEC 61439, General Rules & Busway Trunking Systems, with the flexible features of track lighting - and is available in systems with 250, 400, 630, 800, 1000 & 1250 amps with case, dedicated or isolated earth.

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**.

INTERNATIONAL BUSWAY (GLOBAL VS. METRIC)

Starline Track Busway Global series has been specifically designed and manufactured to meet IEC 61439-1 and IEC 61439-6 international standards for busway trunking systems. The Global busway system is lighter, more compact, and is compatible with Starline's fully customizable T5 tap-off units.

Starline's Metric series is a robust busway that meets the requirements of both UL 857 and IEC 61439-1,6. It carries industry leading short-circuit capabilities and electrical ratings.

Both systems can be specified utilizing this selection guide.

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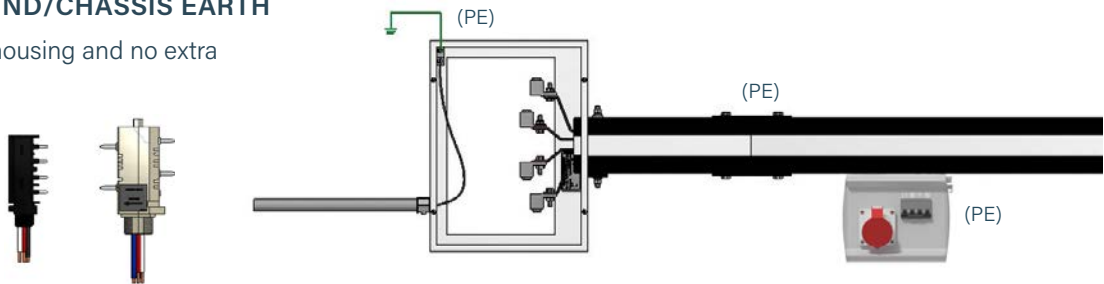
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T5 SERIES

EARTH/GROUND OPTIONS

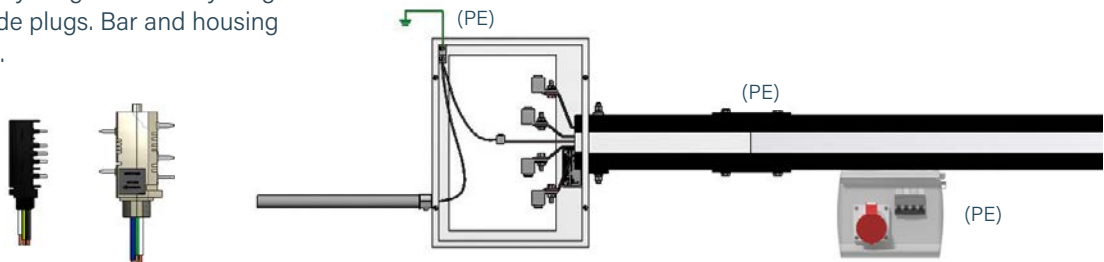
■ CASE GROUND/CHASSIS EARTH

Uses aluminum housing and no extra copper bar.



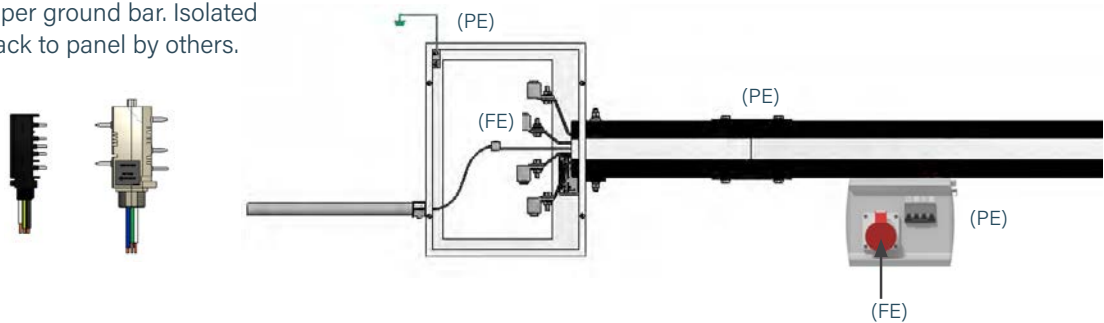
■ DEDICATED GROUND/EARTH

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 Earth vs. Isolated Earth, please reference our "Metric: Isolated Earth (IG) vs. Dedicated Earth (DG)" tech brief on downloads.starlinepower.com

T5 SERIES

POLARITY TIPS

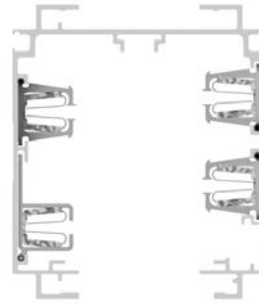
Starline utilizes a unique polarizing method to prevent mismatched components from being inadvertently connected to each other. The system is designed to prevent cross phasing during installation.

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.

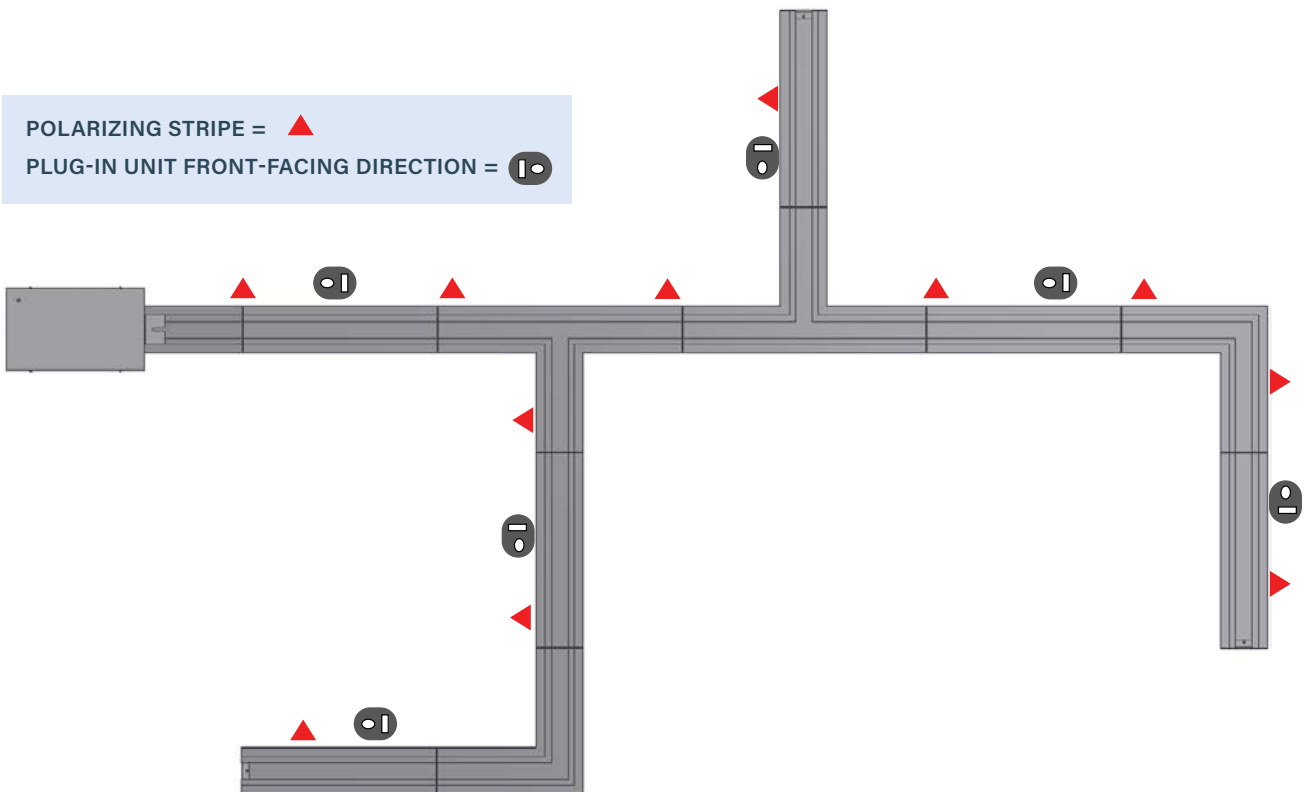


A standard plug-in unit will always face the polarizing strip



Polarizing Strip

POLARIZING STRIPE = ▲
 PLUG-IN UNIT FRONT-FACING DIRECTION = ●



T5 SERIES

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 3 meters 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**. 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 1.5 meter, 3 meter, and 6 meter increments (except for 800T5, 1000T5 and 1250T5 where the max length is 3 meters). Although the factory can cut individual Starline Track Busway sections to any length under 6 meters, it is highly recommended to keep all layout runs in increments of 1.5 meters 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.

T5 SERIES

COMPONENT RELATIONSHIP TIPS

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

EXAMPLES

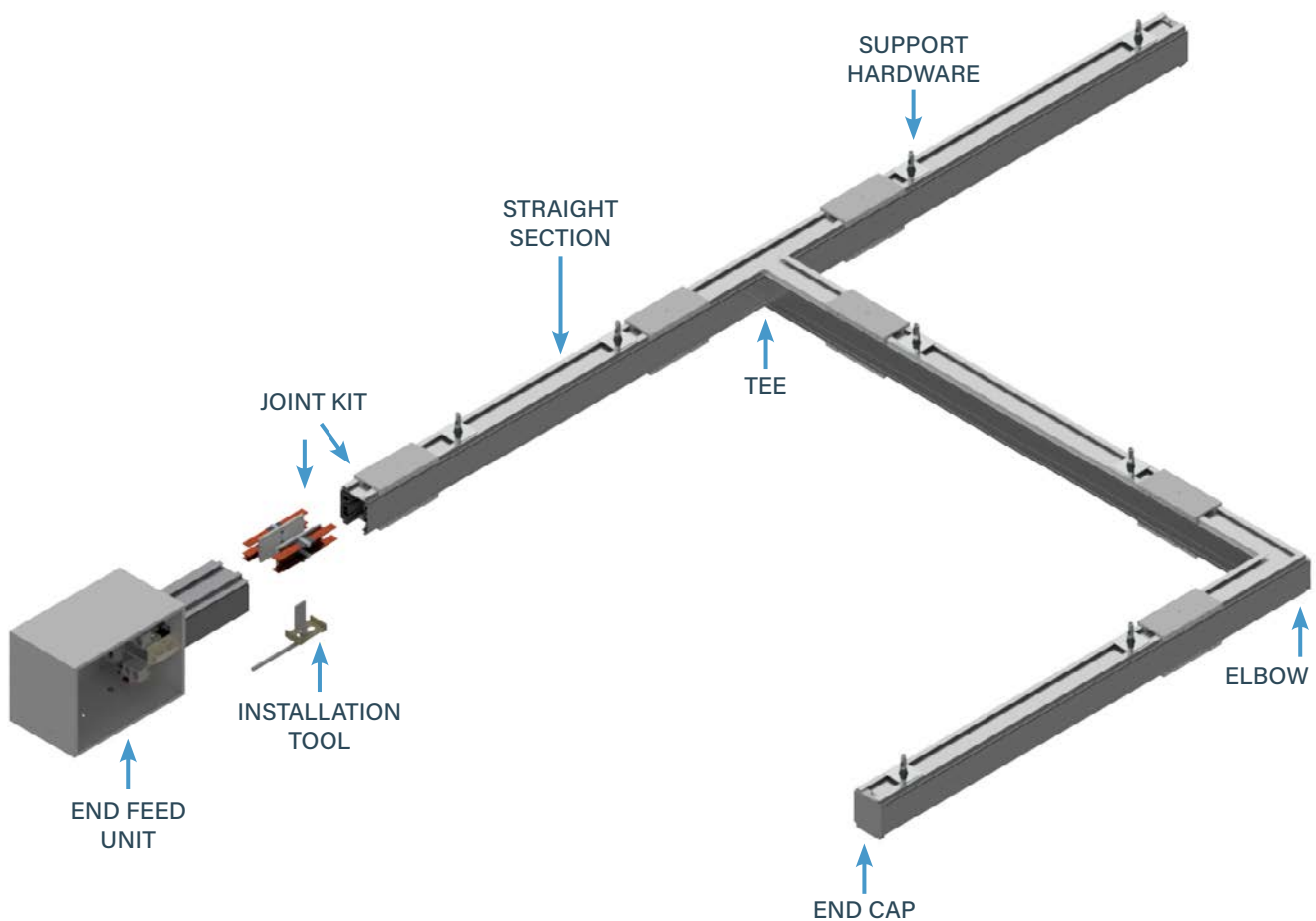
- The T5 series of plug-in units are compatible with all T5 busway systems
- Each piece of housing (straights and elbows) requires a joint kit (containing two housing couplers and one bus connector). Determine the total number of housing sections (regardless of length) as this becomes the number of joint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

- 3 meter 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.

250T5 SYSTEMS

SYSTEM LAYOUT DRAWING



PLUG-IN UNITS

For further information on applicable T5 plug-in unit options, please consult the factory.

250T5 SYSTEMS

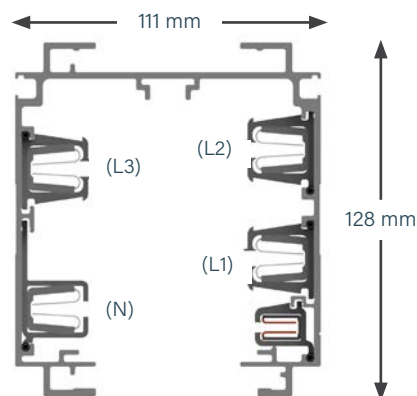
STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight sections consist 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 protective earth. 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 earth, 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 maintenance-free, "spring-pressure" electrical connection.



GLOBAL & METRIC SYSTEM



MATERIAL

Extruded Aluminum

RATINGS

100% Protective Earth
250 Amps
250T5C4/250T5CG: 415 Volt
250T5CN/250T5CF: 415 Volt

LENGTH

3 m, 6 m; or custom lengths between .6 - 6 m

GLOBAL SYSTEM WEIGHT

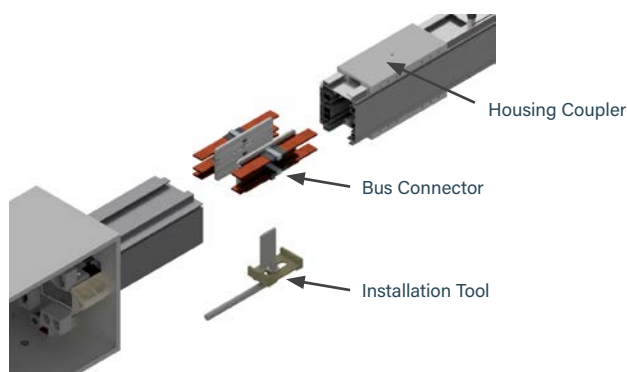
3 m 4 pole: 18.6 kg
3 m 4 pole w/ ground: 20.9 kg
3 m 4 pole w/ 200% N: 21.3 kg
3 m 4 pole w/ ground & 200% N: 23.1 kg

METRIC SYSTEM WEIGHT

3 m 4 pole: 21.3 kg
3 m 4 pole w/ ground: 23.6 kg
3 m 4 pole w/ 200% N: 24.7 kg
3 m 4 pole w/ ground & 200% N: 26.5 kg

METRIC

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



250T5 SYSTEMS

ELBOW SECTIONS

■ PRODUCT DESCRIPTION

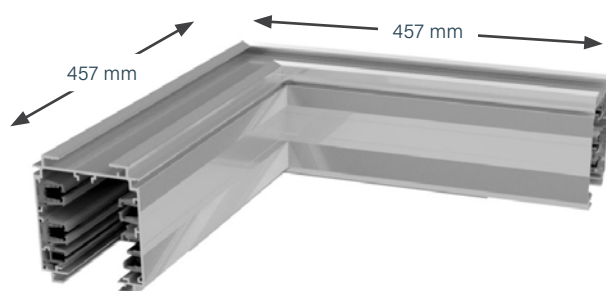
An elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify right or left elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

Connection Accessories

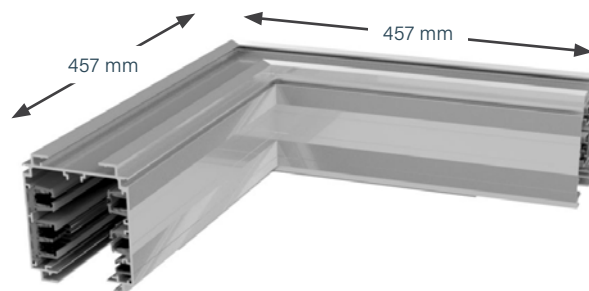
A joint kit (**page 4.84**) is used to make mechanical and electrical connections to adjacent busway sections. (*ordered separately*)

Global System Weight 6.6 kg

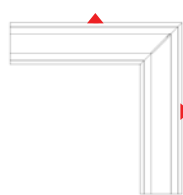
Metric System Weight 7.2 kg



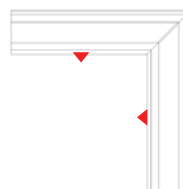
EXTERNAL ELBOW



INTERNAL ELBOW



External Elbow



Internal Elbow

▲ = Polarizing Stripe

ELBOW SECTIONS: PRODUCT NUMBERS

G	E	250	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 <i>(standard of measure)</i>		8. Turning Direction <i>(direction of section polarizing stripe)</i>	
G Global	M Metric	IN Internal	EX External
HN Seismic Internal	GX Seismic External		
2. Product Type <i>(section component)</i>		9. Paint Color <i>(allows painting of the busway housing)</i>	
E Elbow Section		STD Factory Mill Finish	RED Paint Factory Red
3. Product Frame <i>(maximum amperage)</i>		BLK Paint Factory Black	BLU Paint Factory Blue
250 250 amps		WHT Paint Factory White	**RAL <i>(please see page 4.80)</i>
4. Compatibility <i>(frame compatibility)</i>		<i>**Standard offering (STD) will be Factory Mill Finish for Metric (M) systems & Factory Silver Paint for Global (G) systems</i>	
T5 T5 Series	K5 T5 Series (Limiting Strip)		
5. Material <i>(busbar material)</i>		10. Tape Marking <i>(colored tape on both sides of busway housing)</i>	
C Copper		0 None	7 Tape Factory Blue
6. Neutral/Ground Busbar <i>(size of neutral busbar and/or ground)</i>		3 Tape Factory Black	8 Tape Factory Green
4 3 Phase plus Neutral	G 3 Phase plus Neutral plus Internal Ground Conductor	4 Tape Factory White	9 Tape Factory Yellow
N 3 Phase plus 200% Neutral	F 3 Phase plus 200% Neutral plus Internal Ground Conductor	6 Tape Factory Red	
7. Polarization <i>(orientation of section for mating purposes)</i>			
S Standard			

ME250T5CGS-EX-STD0 = Metric System, Elbow Section, 250 amps, T5 Series, Copper Conductor, 3 Phase plus Neutral plus Isolated/Dedicated Ground, Standard Polarization, External Turning Direction, Factory Mill Finish, No Tape Marking

250T5 SYSTEMS

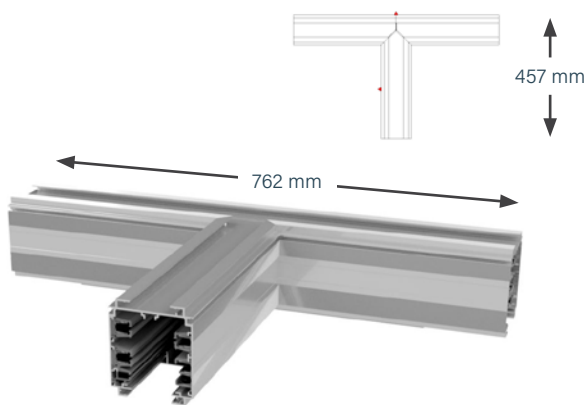
TEE SECTIONS

■ PRODUCT DESCRIPTION

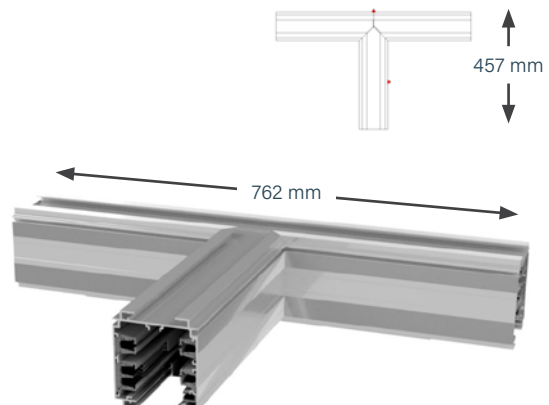
Tee sections are used for creating a 90 degree branch leg in a busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. external tees are preferred. Tee sections are connected to adjacent busway sections using an installation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

Global System Weight 8.8 kg

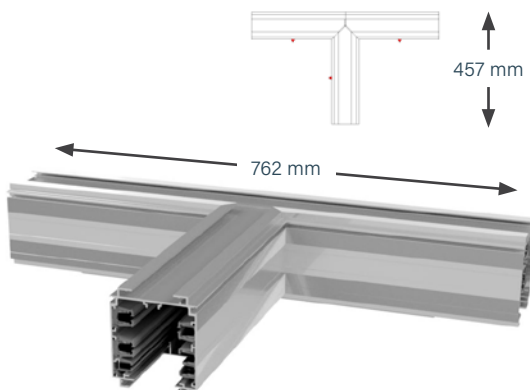
Metric System Weight 9.5 kg



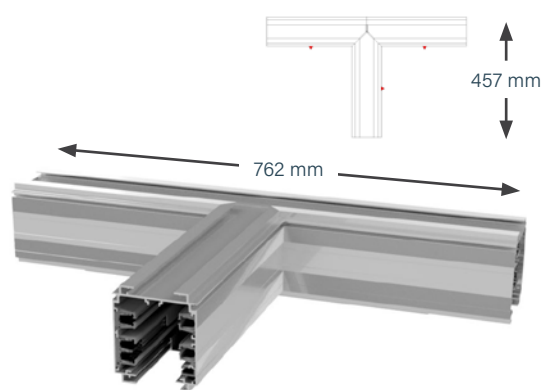
EXTERNAL-LEFT (EL)



EXTERNAL-RIGHT (ER)



INTERNAL-LEFT (IL)



INTERNAL-RIGHT (IR)

 = Polarizing Stripe

250T5 SYSTEMS

TEE SECTIONS: PRODUCT NUMBERS

G	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)

G Global **M** Metric

2. Product Type (section component)

T Tee Section

3. Product Frame (maximum amperage)

250 250 amps

4. Compatibility (frame compatibility)

T5 T5 Series **K5** T5 Series (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)

****Standard offering (STD) will be Factory Mill Finish for Metric (M) systems & Factory Silver Paint for Global (G) systems**

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

GT250T5C4S-IR-RED0 = Global System, Tee Section, 250 amps, T5 Series, Copper Conductor, 3 Phase plus Neutral, Standard Polarization, Internal-Right Turning Direction, Painted Factory Red, No Tape Marking

MT250T5CFS-EL-STD7 = Metric System, Tee Section, 250 amps, T5 Series, Copper Conductor, 3 Phase plus 200% Neutral plus Isolated/Dedicated Ground, Standard Polarization, External-Left Turning Direction, Factory Mill Finish, Factory Blue Tape Marking

250T5 SYSTEMS

END FEED UNITS

PRODUCT DESCRIPTION

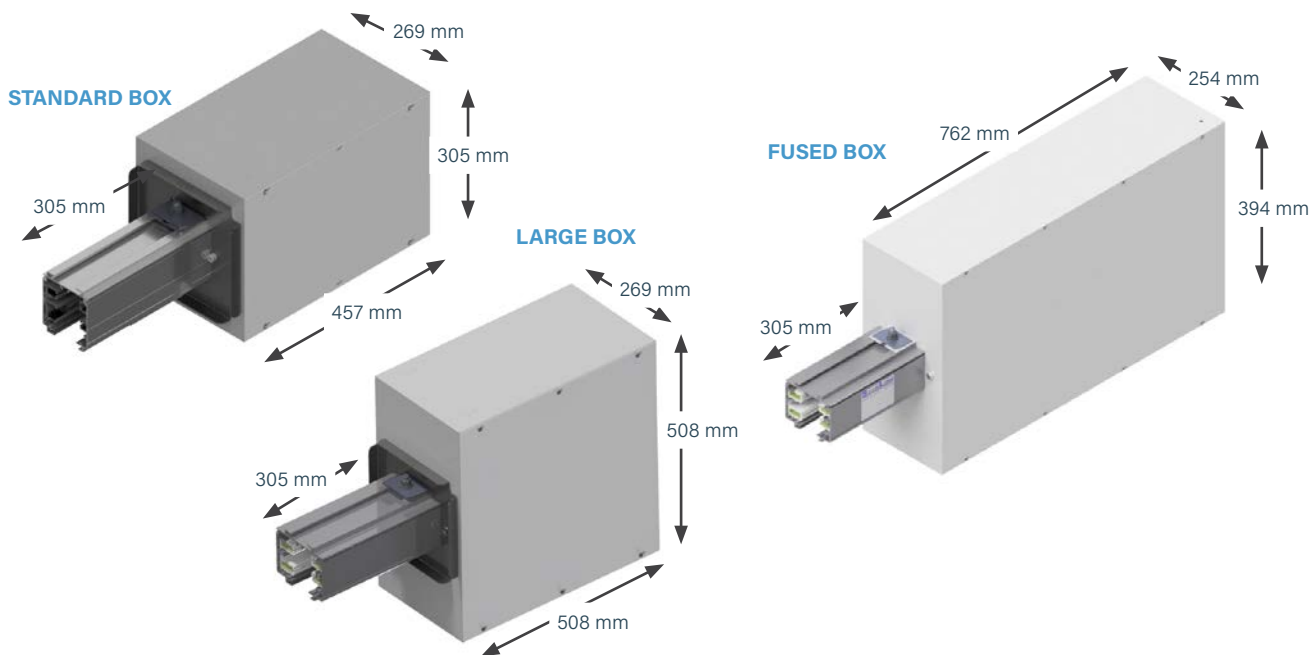
End power feed units connect to the end of the busway. A standard size, factory assembled unit consists of a steel junction box, with removable sides, connected to a 305 millimeter section of busway. The assembly includes connection lugs and a ground lug for wires up to 150 mm² for standard size boxes 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.

Global System Weight (*for standard size end feed*) 15 kg

Metric System Weight (*for standard size end feed*) 15.2 kg

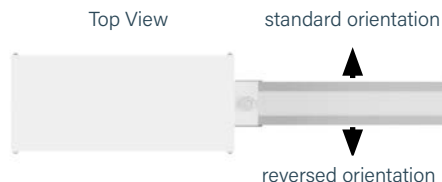


	BOXES		
LUGS	Standard	Large	Fused
Standard	S	L	F
Double			
Bolt*	B	R	

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



STANDARD "S"/"L"



BOLT "B"/"R"

250T5 SYSTEMS

END FEED UNITS: METERING

■ PRODUCT DESCRIPTION

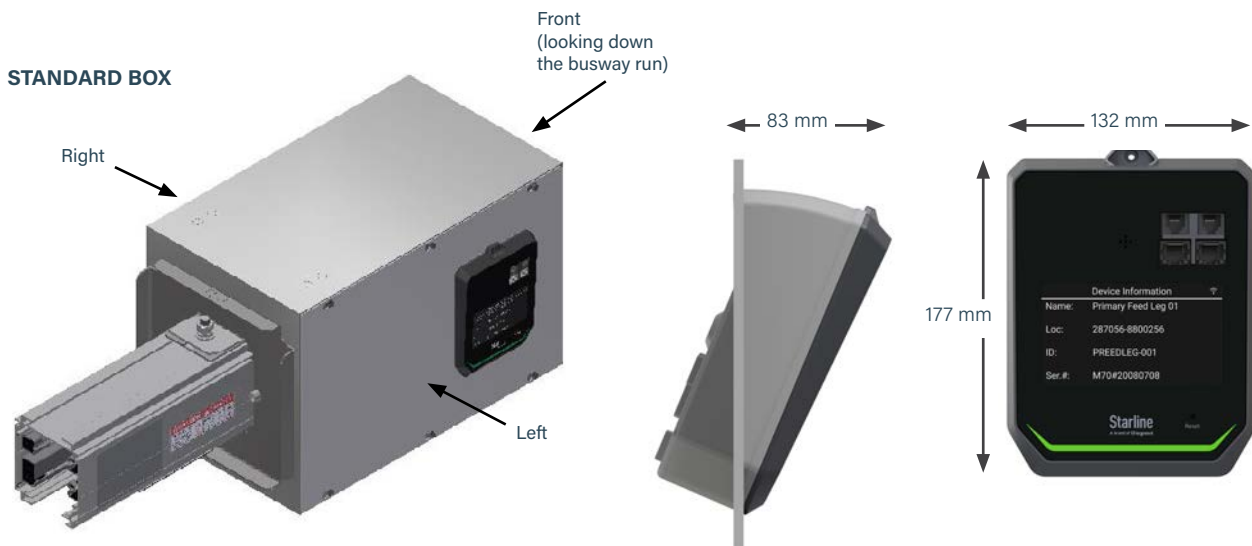
End feed units can be populated with Starline's Critical Power Monitor to provide access to revenue-grade, three-phase power data. The M70 CPM is built with a 109 mm LCD touchscreen display that can be angled down for easier viewing from the floor.

Wired ethernet and serial communications are standard with (2) RJ11 and (2) RJ45 jacks built in for easy daisy chaining. Optional 802.11n Wi-Fi connectivity is also available. Both serial Modbus and Ethernet-based protocols can be used simultaneously. These include: SNMP (v1, v2 & v3), Modbus RTU and TCP/IP, BACnet, HTTPS, and SSH.

Firmware communication options (IPv4, IPv6, DHCP, WPA2) are pre-packaged into the meter build. While these options are selected and then enabled during factory assembly, they can be re-configured at any time in the field. The M70 CPM is compatible with all major DCIM and BMS packages.

The M70 CPM can also be complemented with end feed accessories, such as real-time lug temperature monitoring, IR window scanning and audible alarms. Unlike firmware options, these hardware features are not field changeable.

The M70 is available in 110-500vac, 48vdc and 380vdc versions.



*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**).

250T5 SYSTEMS

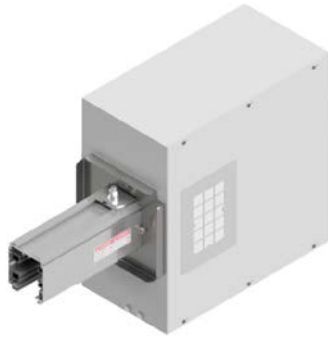
END FEED UNITS: ACCESSORIES

■ IR WINDOWS

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

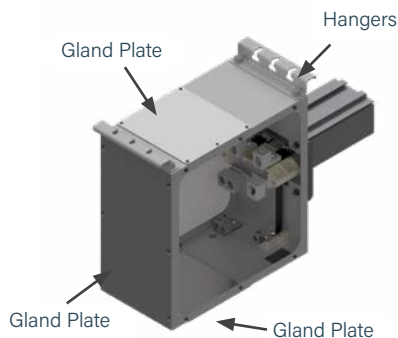
When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

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



■ END FEED HANGERS & GLAND PLATES

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



FEATURES & BENEFITS

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

GENERAL SPECIFICATIONS

Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Aluminum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T5); IP54 (S5)
Max Operating Temperature	125°C

WINDOW DIMENSIONS

End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 630A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17, M70 Options on **page 4.19** End Feed Metering: Product Numbers)

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

END FEED UNITS: PRODUCT NUMBERS

G	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
- M030 C - STD 0 - M73 00 1 <i>*Optional</i>											
		12. Straight Length	13. Busway Access	14. Paint Color	15. Tape Marking			*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

1. System <i>(standard of measure)</i>	
G Global	M Metric
2. Product Type <i>(section component)</i>	
F End Feed	
3. Product Frame <i>(maximum amperage)</i>	
250 250 amps	
4. Compatibility <i>(frame compatibility)</i>	
T5 T5 Series	K5 T5 Series (Limiting Strip)
5. Material <i>(busbar material)</i>	
C Copper	
6. Neutral/Ground Busbar <i>(size of neutral busbar and/or ground)</i>	
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 <i>(orientation of section for mating purposes)</i>	
S Standard	R Reversed
8. Lug/Box Options <i>(standard/double/bolt lugs and box size)</i>	
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	
9. Meter Location <i>(from the terminal, side with removable lid)</i>	
R Right	L Left
N None (N/A)	
10. Accessories Package <i>(optional accessories for feed units)</i>	
S Standard	
C IR Window - Circular	
F End Feed Hanger & Gland Plates	
G Starline Rect. IR window, 5" (127mm) x 7" (178mm)	
B (C+F)	
I (G+F)	
11. Accessories Location <i>(from the terminal, side with accessory)</i>	
N None (N/A)	R Right
L Left	F Front (consult the factory)
12. Straight Length <i>(length of section)</i>	
M030 .3 meters <i>(For other lengths, consult the factory)</i>	
13. Busway Access	
C Continuous	
14. Paint Color <i>(allows painting of the busway housing)</i>	
STD Factory Mill Finish	RED Paint Factory Red
BLK Paint Factory Black	BLU Paint Factory Blue
WHT Paint Factory White	**RAL <i>(please see page 4.80)</i>
<i>**Standard offering (STD) will be Factory Mill Finish for Metric (M) systems & Factory Silver Paint for Global (G) systems</i>	
15. Tape Marking <i>(colored tape on both sides of busway housing)</i>	
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	

GF250T5C4R-LRGL-M030C-BLK0 = Global System, End Feed, 250 amps, T5 Series, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Large Box, Right Meter Location, Rectangular IR window, Left Accessory Location, .3 meter Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking

250T5 SYSTEMS

ABOVE FEED UNITS

■ PRODUCT DESCRIPTION

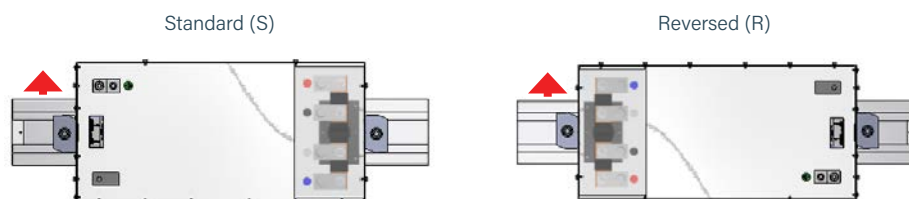
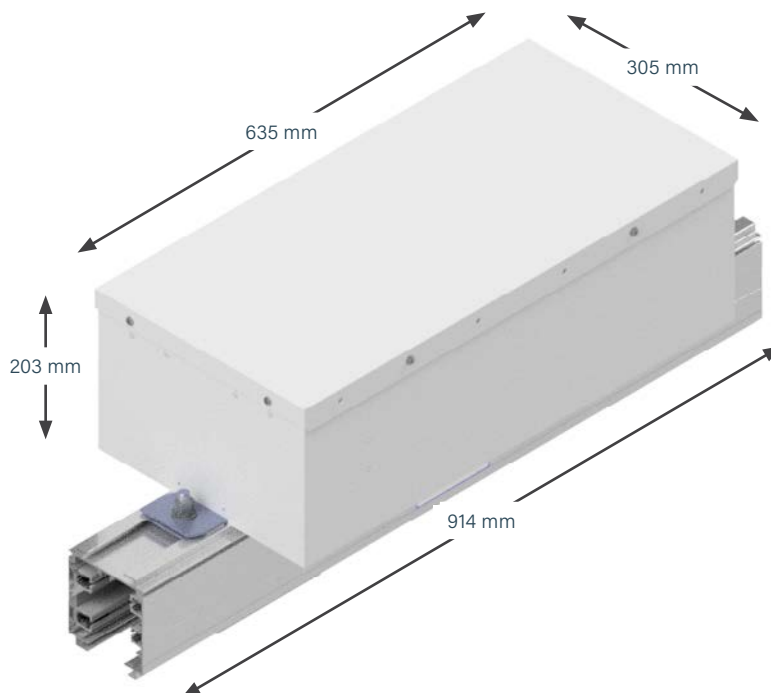
The above feed power unit supplies power from the topside of the busway. Factory assembled unit consists of a 635 x 305 x 203 millimeter steel junction box that is mounted on top of a 914 millimeter section of busway.

*914 millimeter 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 20.6 kg

*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.



250T5 SYSTEMS

ABOVE FEED UNITS: PRODUCT NUMBERS

G	A	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	
-	M100	C	050	-	STD	0	-	M73	00	1	<i>*Optional</i>
	12. Straight Length	13. Busway Access	14. Feed Location	15. Paint Color	16. Tape Marking			*17. Meter Release	*18. Meter Options	*19. System Config. and CT Type	

1. System (standard of measure)

G Global **M** Metric

2. Product Type (section component)

A Above Feed

3. Product Frame (maximum amperage)

250 250 amps

4. Compatibility (frame compatibility)

T5 T5 Series **K5** T5 Series (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, 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)

M100 1 meter

13. Busway Access (how plugs access the busway)

C Continuous

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

050 50 centimeters (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)
 **Standard offering (STD) will be Factory Mill Finish for Metric (M) systems & Factory Silver Paint for Global (G) systems

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

EXAMPLE

GA250T5CFS-SLSN-M100C050-STD0-M73001 = Global System, Above Feed, 250 amps, T5 Series, Copper Conductor, 3 Phase plus 200% Neutral plus Internal Ground Conductor, Standard Polarization, Standard Lugs, Standard Box, Left Meter Location, Standard Accessory Package, No Accessory Location, 1 meter Straight Length, Continuous Busway Access, 50 centimeter Feed Location, Painted Factory Silver, No Tape Marking, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral

250T5 SYSTEMS

ABOVE FEED UNITS: PRODUCT NUMBERS

G	A	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	
– M100 C 050 – STD 0 – M73 00 1 <i>*Optional</i>											
	12. Straight Length	13. Busway Access	14. Feed Location	15. Paint Color	16. Tape Marking	*17. Meter Release	*18. Meter Options	*19. System Config. and CT Type			

*17. Meter Release (M70 AC)

- M73** (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*17. Meter Release (M70 DC)

- M7C** (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*18. Meter Options (M70 AC and DC)

- 0A** IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP
- 00** Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm
- 1A** Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP
- 3A** Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP
- AA** Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*19. System Configuration and CT Type (M70 AC)

- 1** Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral
8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Y, Solid CTs, Millivolt, Measured Neutral
C Y, Split CTs, 5A-secondary, Measured Neutral

*19. System Configuration and CT Type (M70 DC)

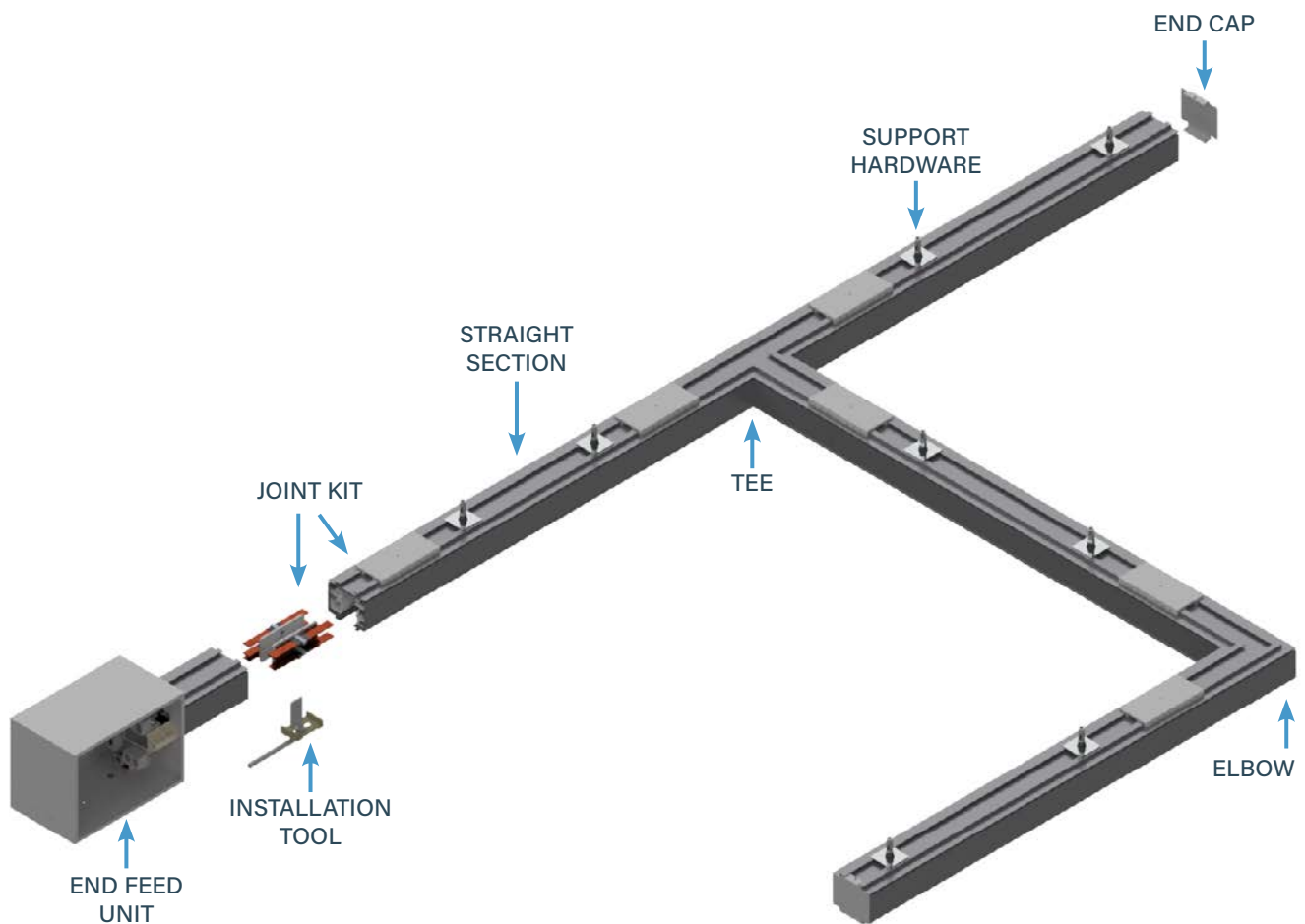
- J** DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

EXAMPLE

GA250T5CFS-SLSN-M100C050-STD0-M73001 = Global System, Above Feed, 250 amps, T5 Series, Copper Conductor, 3 Phase plus 200% Neutral plus Internal Ground Conductor, Standard Polarization, Standard Lugs, Standard Box, Left Meter Location, Standard Accessory Package, No Accessory Location, 1 meter Straight Length, Continuous Busway Access, 50 centimeter Feed Location, Painted Factory Silver, No Tape Marking, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral

400T5 SYSTEMS

SYSTEM LAYOUT DRAWING



PLUG-IN UNITS

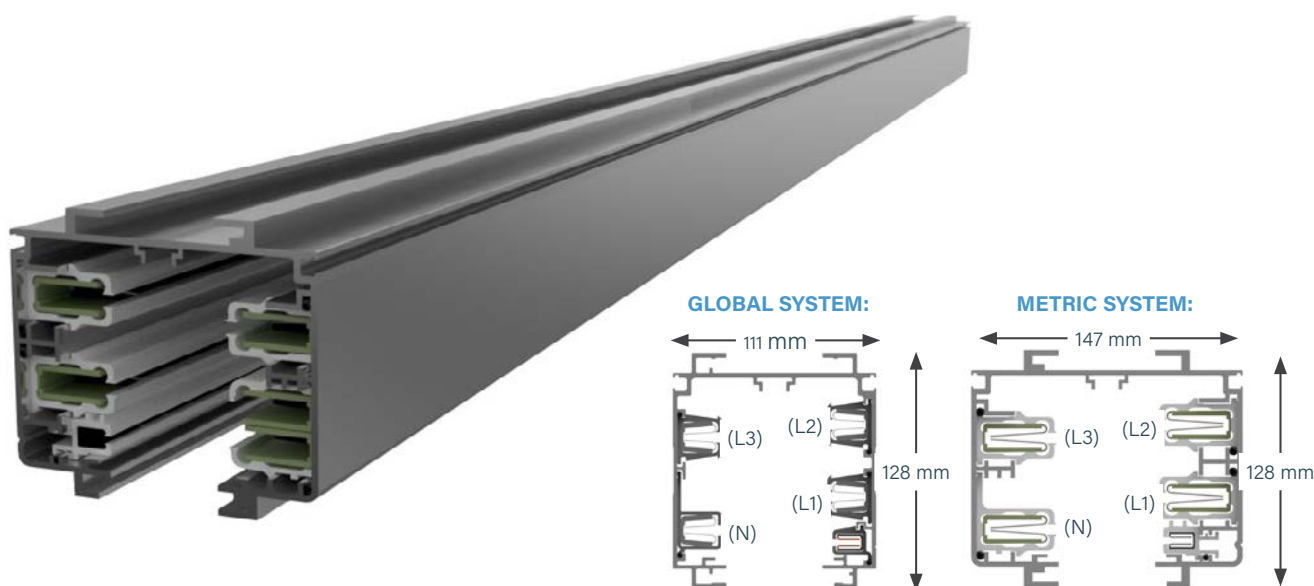
For further information on applicable T5 plug-in unit options, please consult the factory.

400T5 SYSTEMS

STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight sections consist 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% earth 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 maintenance-free "spring-pressure" electrical connection.



MATERIAL

Extruded Aluminum

RATINGS

100% Protective Earth
400 Amps
400T5C4/400T5CG: 415 Volt
400T5CN/400T5CF: 415 Volt

LENGTH

3 m, 6 m; or custom lengths between .6 - 6 m

WEIGHT

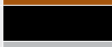
Global System

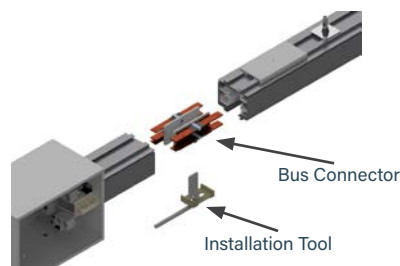
3 m 4 pole: 21.3 kg
3 m 4 pole w/ ground: 23.6 kg
3 m 4 pole w/ 200% N: 24.7 kg
3 m 4 pole w/ ground & 200% N: 26.5 kg

Metric System

3 m 4 pole: 43 kg
3 m 4 pole w/ ground: 45.4 kg
3 m 4 pole w/ 200% N: 49.9 kg
3 m 4 pole w/ ground & 200% N: 54.4 kg

METRIC

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



STRAIGHT SECTIONS: PRODUCT NUMBERS



1. System (<i>standard of measure</i>)	
G Global	M Metric
2. Product Type (<i>section component</i>)	
S Straight Section	
3. Product Frame (<i>maximum amperage</i>)	
400 400 amps	
4. Compatibility (<i>frame compatibility</i>)	
T5 T5 Series	K5 T5 Series (Limiting Strip)
5. Material (<i>busbar material</i>)	
C Copper	
6. Neutral/Ground Busbar (<i>size of neutral busbar and/or ground</i>)	
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 (<i>orientation of section for mating purposes</i>)	
S Standard	
8. Straight Length (<i>length of section</i>)	
MXYY X = meters, YY = centimeters	
9. Busway Access (<i>how plugs access the busway</i>)	
C Continuous	
10. Paint Color (<i>allows painting of the busway housing</i>)	
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)
<i>**Standard offering (STD) will be Factory Mill Finish for Metric (M) systems & Factory Silver Paint for Global (G) systems</i>	
11. Tape Marking (<i>colored tape on both sides of busway housing</i>)	
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	

MS400K5CNS-M450C-P013 = Metric System, Straight Section, 400 amps, T5 Series K5 (Limiting Strip), Copper Conductor, 3 Phase plus 200% Neutral, Standard Polarization- 4.5 meter Straight Length, Continuous Busway Access, Painted RAL 1001, Factory Black Tape Marking

400T5 SYSTEMS

ELBOW SECTIONS

■ PRODUCT DESCRIPTION

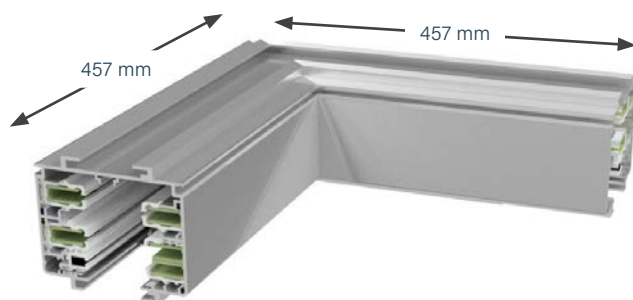
An elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

Connection Accessories

Joint kits (**page 4.84**) are used to make mechanical and electrical connections to adjacent busway sections (*ordered separately*).

Global System Weight 7.2 kg

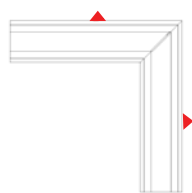
Metric System Weight 12.7 kg



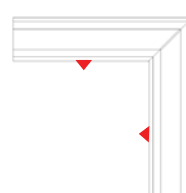
EXTERNAL ELBOW



INTERNAL ELBOW



External Elbow



Internal Elbow

▲ = Polarizing Stripe

ELBOW SECTIONS: PRODUCT NUMBERS

G	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 <i>(standard of measure)</i>	
G Global	M Metric
2. Product Type <i>(section component)</i>	
E Elbow Section	
3. Product Frame <i>(maximum amperage)</i>	
400 400 amps	
4. Compatibility <i>(frame compatibility)</i>	
T5 T5 Series	K5 T5 Series (Limiting Strip)
5. Material <i>(busbar material)</i>	
C Copper	
6. Neutral/Ground Busbar <i>(size of neutral busbar and/or ground)</i>	
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 <i>(orientation of section for mating purposes)</i>	
S Standard	
8. Turning Direction <i>(direction of section polarizing stripe)</i>	
IN Internal	EX External
HN Seismic Internal	GX Seismic External
9. Paint Color <i>(allows painting of the busway housing)</i>	
STD Factory Mill Finish	RED Paint Factory Red
BLK Paint Factory Black	BLU Paint Factory Blue
WHT Paint Factory White	**RAL <i>(please see page 4.80)</i>
<i>*Standard offering (STD) will be Factory Mill Finish for Metric (M) systems & Factory Silver Paint for Global (G) systems</i>	
10. Tape Marking <i>(colored tape on both sides of busway housing)</i>	
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	

ME400T5CGS-EX-STD3 = Metric System, Elbow Section, 400 amps, T5 Series, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External Turning Direction, Factory Mill Finish, Factory Black Tape Marking

400T5 SYSTEMS

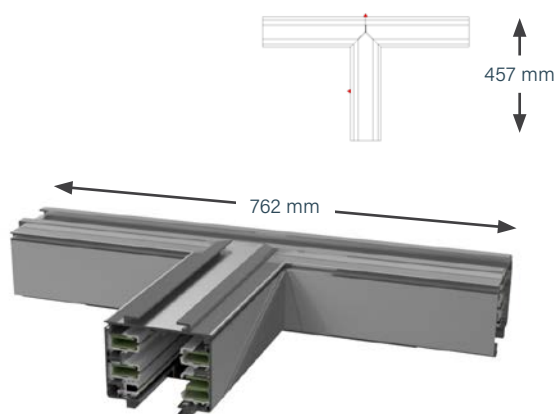
TEE SECTIONS

PRODUCT DESCRIPTION

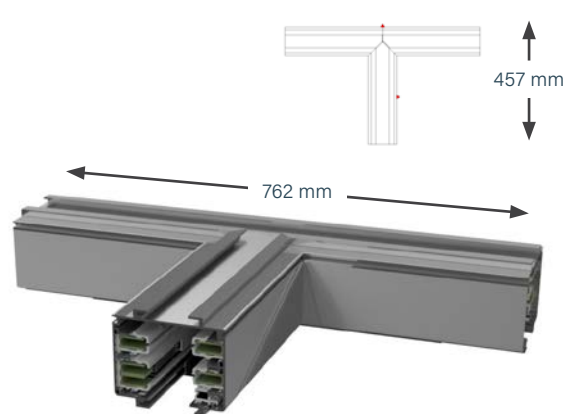
Tee sections are used for creating a 90 degree branch leg in a busway run. When laying out a system, specify the correct busbar orientation of the tee. Indicate right or left, external or internal busbars. External tees are preferred. Tee sections are connected to adjacent busway sections using an installation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

Global System Weight 9.5 kg

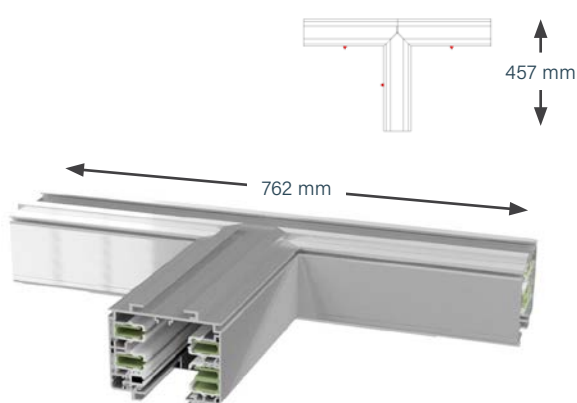
Metric System Weight 19 kg



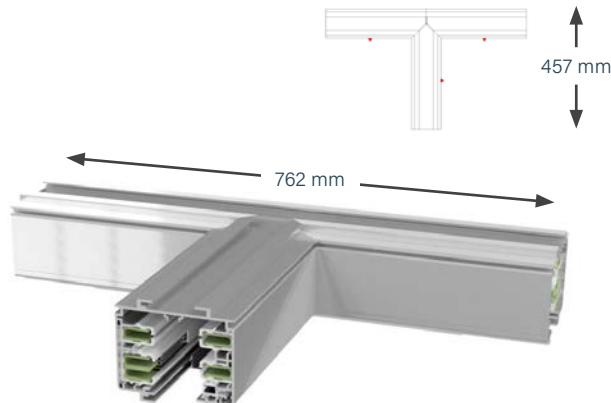
EXTERNAL-LEFT (EL)



EXTERNAL-RIGHT (ER)



INTERNAL-LEFT (IL)



INTERNAL-RIGHT (IR)

▲ = Polarizing Stripe

TEE SECTIONS: PRODUCT NUMBERS

1. System <i>(standard of measure)</i>		8. Turning Direction <i>(direction of section polarizing stripe)</i>	
G Global	M Metric	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
2. Product Type <i>(section component)</i>		9. Paint Color <i>(allows painting of the busway housing)</i>	
T Tee Section		STD Factory Mill Finish	RED Paint Factory Red
		BLK Paint Factory Black	BLU Paint Factory Blue
		WHT Paint Factory White	**RAL <i>(please see page 4.80)</i>
		**Standard offering (STD) will be Factory Mill Finish for Metric (M) systems & Factory Silver Paint for Global (G) systems	
3. Product Frame <i>(maximum amperage)</i>		10. Tape Marking <i>(colored tape on both sides of busway housing)</i>	
400 400 amps		0 No Tape Marking	7 Tape Factory Blue
4. Compatibility <i>(frame compatibility)</i>		3 Tape Factory Black	8 Tape Factory Green
T5 T5 Series	K5 T5 Series (Limiting Strip)	4 Tape Factory White	9 Tape Factory Yellow
5. Material <i>(busbar material)</i>		6 Tape Factory Red	
C Copper			
6. Neutral/Ground Busbar <i>(size of neutral busbar and/or ground)</i>			
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 <i>(orientation of section for mating purposes)</i>			
S Standard			

MT400K5CFS-EL-STD0 = Metric System, Tee Section, 400 amps, T5 Series 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

400T5 SYSTEMS

END FEED UNITS

PRODUCT DESCRIPTION

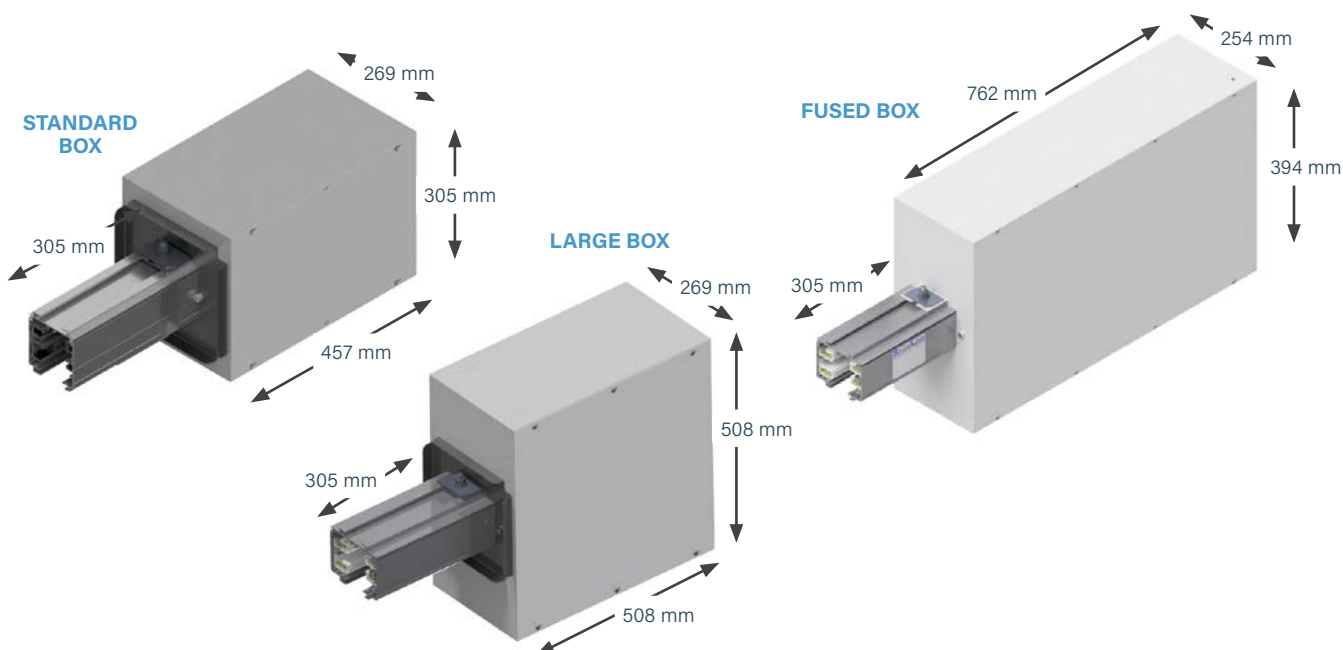
End power feed units connect to the end of the busway. A standard size, factory assembled unit consists of a steel junction box, with removable sides, connected to a .3 meter section of busway. The assembly includes connection lugs and a ground lug for wires 120 mm² or up to 300 mm² for standard size 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.

Global System Weight (*for standard size end feed*) 15.2 kg

Metric System Weight (*for standard size end feed*) 16.3 kg

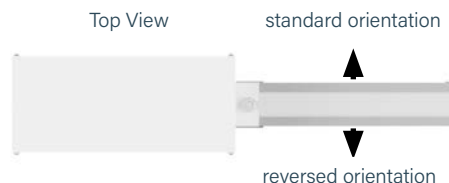


	BOXES		
LUGS	Standard	Large	Fused
Standard	S	L	F
Double			
Bolt*	B	R	

Box size and Lug options: Refer to option 8. Lug/Box Options on **page 4.33**
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



METRIC "S"



**GLOBAL BOLT
"B" / "R"**



METRIC "R"

400T5 SYSTEMS

END FEED UNITS: METERING

■ PRODUCT DESCRIPTION

End feed units can be populated with Starline's Critical Power Monitor to provide access to revenue-grade, three-phase power data. The M70 CPM is built with a 109 mm LCD touchscreen display that can be angled down for easier viewing from the floor.

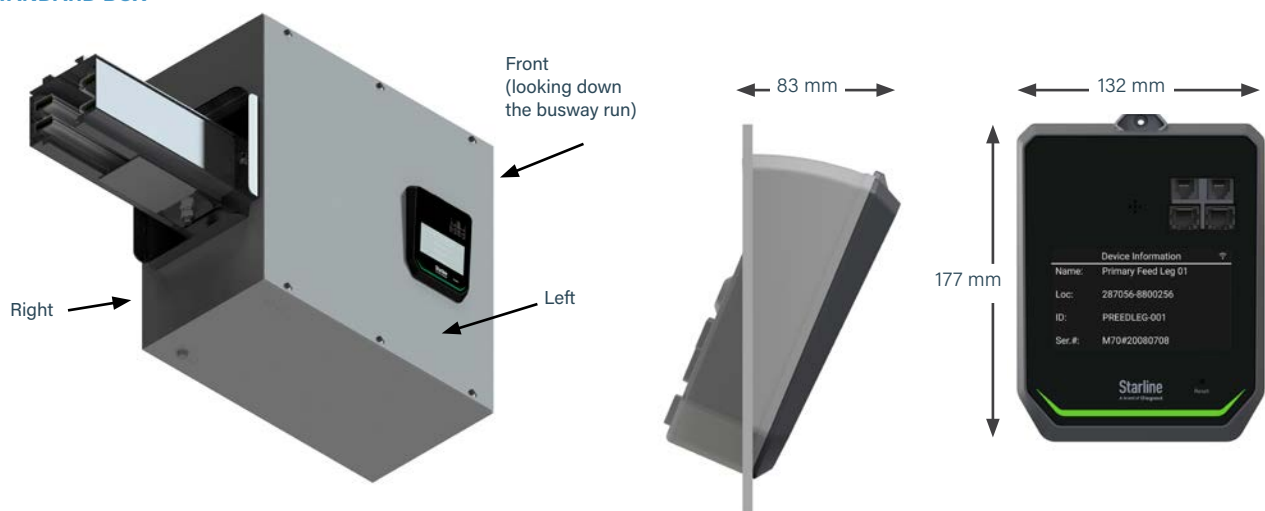
Wired ethernet and serial communications are standard with (2) RJ11 and (2) RJ45 jacks built in for easy daisy chaining. Optional 802.11n Wi-Fi connectivity is also available. Both serial Modbus and Ethernet-based protocols can be used simultaneously. These include: SNMP (v1, v2 & v3), Modbus RTU and TCP/IP, BACnet, HTTPS, and SSH.

Firmware communication options (IPV4, IPV6, DHCP, WPA2) are pre-packaged into the meter build. While these options are selected and then enabled during factory assembly, they can be re-configured at any time in the field. The M70 CPM is compatible with all major DCIM and BMS packages.

The M70 CPM can also be complemented with end feed accessories, such as real-time lug temperature monitoring, IR window scanning and audible alarms. Unlike firmware options, these hardware features are not field changeable.

The M70 is available in 110-500vac, 48vdc and 380vdc versions.

STANDARD BOX



*The above arrows show how to determine your meter location on an end feed (Refer to option 9, Meter Location on **page 4.33** End Feed Units: Product Numbers).

400T5 SYSTEMS

END FEED UNITS: ACCESSORIES

■ IR WINDOWS

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

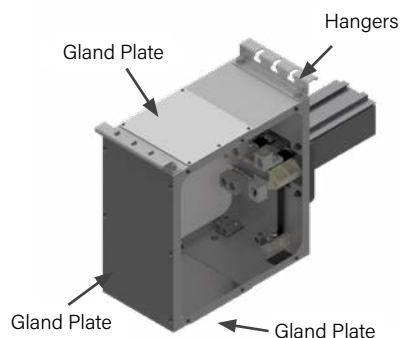
When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

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



■ END FEED HANGERS & GLAND PLATES

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



FEATURES & BENEFITS

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

GENERAL SPECIFICATIONS

Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Aluminum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T5); IP54 (S5)
Max Operating Temperature	125°C

WINDOW DIMENSIONS

End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 630A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17. M70 Options on **page 4.34** End Feed Metering: Product Numbers)

(Refer to option 10. Accessories Package on **page 4.33** End Feed Units: Product Numbers)

END FEED UNITS: PRODUCT NUMBERS

G	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
- M030 C - STD 0 - M73 00 1 <i>*Optional</i>											
		12. Straight Length	13. Busway Access	14. Paint Color	15. Tape Marking			*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

1. System <i>(standard of measure)</i>	
G Global	M Metric
2. Product Type <i>(section component)</i>	
F End Feed	
3. Product Frame <i>(maximum amperage)</i>	
400 400 amps	
4. Compatibility <i>(frame compatibility)</i>	
T5 T5 Series	K5 T5 Series (Limiting Strip)
5. Material <i>(busbar material)</i>	
C Copper	
6. Neutral/Ground Busbar <i>(size of neutral busbar and/or ground)</i>	
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 <i>(orientation of section for mating purposes)</i>	
S Standard	R Reversed
8. Lug/Box Options <i>(standard/double/bolt lugs and box size)</i>	
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	
9. Meter Location <i>(from the terminal, side with removable lid)</i>	
R Right	L Left
N None (N/A)	
10. Accessories Package <i>(optional accessories for feed units)</i>	
S Standard	
C IR Window - Circular	
F End Feed Hanger & Gland Plates	
G Starline Rect. IR window, 5" (127mm) x 7" (178mm)	
B (C+F)	
I (G+F)	
11. Accessories Location <i>(from the terminal, side with accessory)</i>	
N None (N/A)	R Right
L Left	F Front (consult the factory)
12. Straight Length <i>(length of section)</i>	
M030 .3 meters	
13. Busway Access	
C Continuous	
14. Paint Color <i>(allows painting of the busway housing)</i>	
STD Factory Mill Finish	RED Paint Factory Red
BLK Paint Factory Black	BLU Paint Factory Blue
WHT Paint Factory White	**RAL <i>(please see page 4.80)</i>
<i>**Standard offering (STD) will be Factory Mill Finish for Metric (M) systems & Factory Silver Paint for Global (G) systems</i>	
15. Tape Marking <i>(colored tape on both sides of busway housing)</i>	
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	

GF400T5C4R-LRGL-M030C-BLK0 = Global System, End Feed, 400 amps, T5 Series, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Large Box, Right Meter Location, Rectangular IR window, Left Accessory Location, .3 meter Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking

400T5 SYSTEMS

ABOVE FEED UNITS

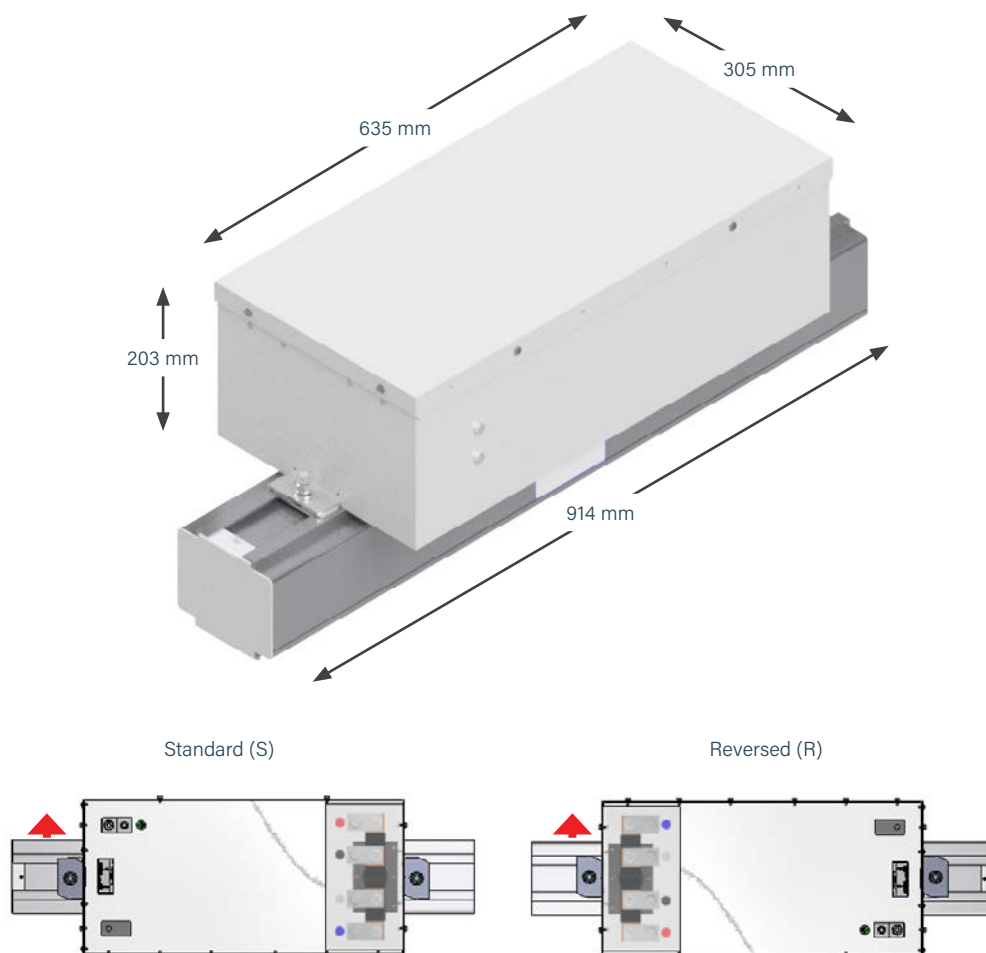
■ PRODUCT DESCRIPTION

The above feed power unit supplies power from the topside of the busway. Factory assembled unit consists of a 635 x 305 x 203 millimeter steel junction box mounted on top of a 914 millimeter section of busway.

*914 millimeter 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 earth 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.



ABOVE FEED UNITS: PRODUCT NUMBERS

G	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
- M100 C 050 - STD 0 - M73 00 1 <i>*Optional</i>											
	12. Straight Length	13. Busway Access	14. Feed Location	15. Paint Color	16. Tape Marking			*17. Meter Release	*18. Meter Options	*19. System Config. and CT Type	

EXAMPLE

GA400K5CFS-SRSN-M100C050-STD0-M73001 = Global System, Above Feed, 400 amps, T5 Series 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, 1 meter Straight Length, Continuous Busway Access, 50 centimeter Feed Location, Painted Factory Silver, No Tape Marking, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral

400T5 SYSTEMS

ABOVE FEED UNITS: PRODUCT NUMBERS

G	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	
– M100 C 050 – STD 0 – M73 00 1 <i>*Optional</i>											
	12. Straight Length	13. Busway Access	14. Feed Location	15. Paint Color	16. Tape Marking	*17. Meter Release	*18. Meter Options	*19. System Config. and CT Type			

*17. Meter Release (M70 AC)

- M73** (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*17. Meter Release (M70 DC)

- M7C** (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*18. Meter Options (M70 AC and DC)

- 0A** IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP
- 00** Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm
- 1A** Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP
- 3A** Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP
- AA** Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*19. System Configuration and CT Type (M70 AC)

- 1** Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral
8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Y, Solid CTs, Millivolt, Measured Neutral
C Y, Split CTs, 5A-secondary, Measured Neutral

*19. System Configuration and CT Type (M70 DC)

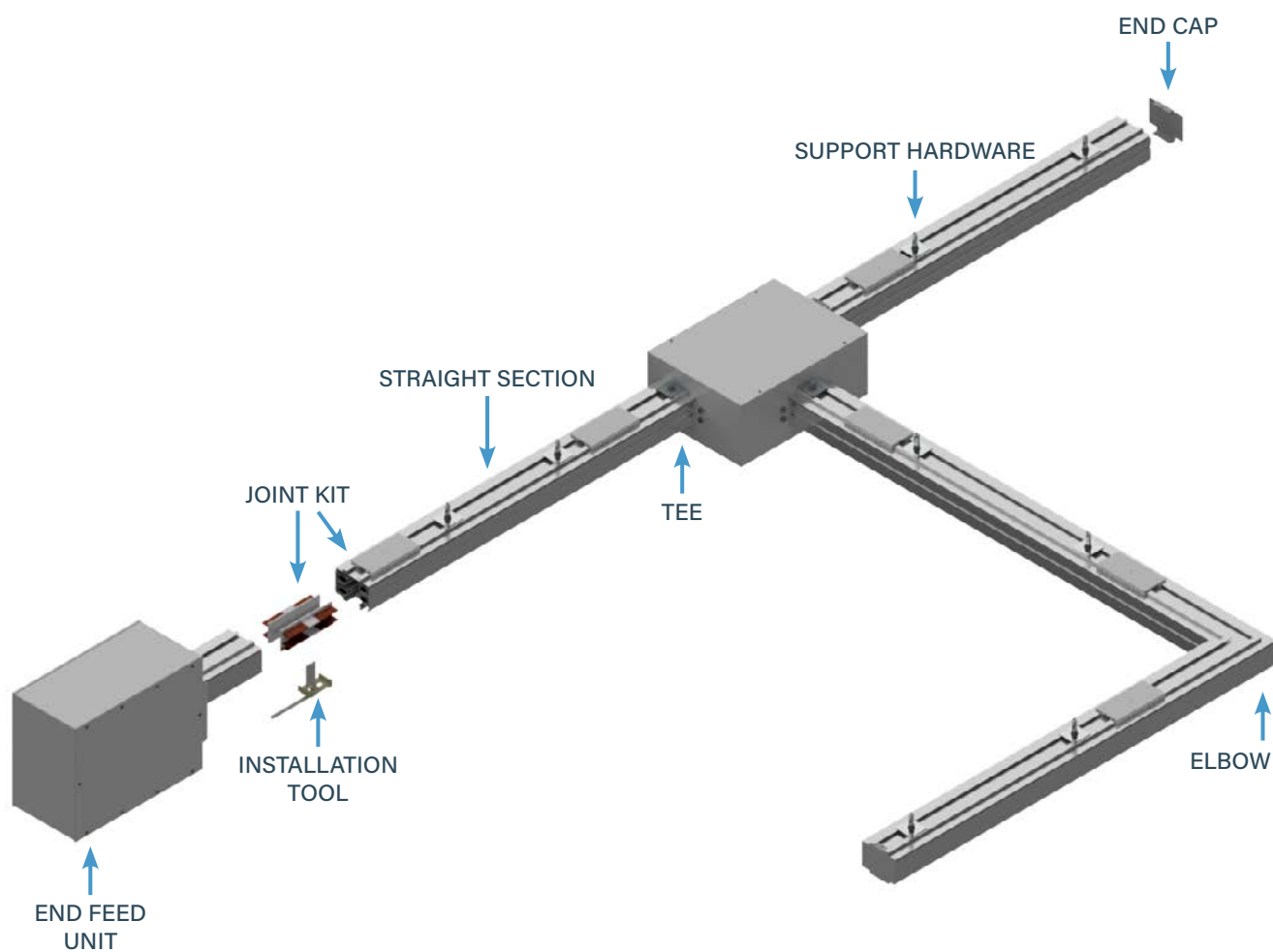
- J** DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT

EXAMPLE

GA400K5CFS-SRSN-M100C050-STD0-M73001 = Global System, Above Feed, 400 amps, T5 Series 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, 1 meter Straight Length, Continuous Busway Access, 50 centimeter Feed Location, Painted Factory Silver, No Tape Marking, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral

630T5 SYSTEMS

SYSTEM LAYOUT DRAWING



PLUG-IN UNITS

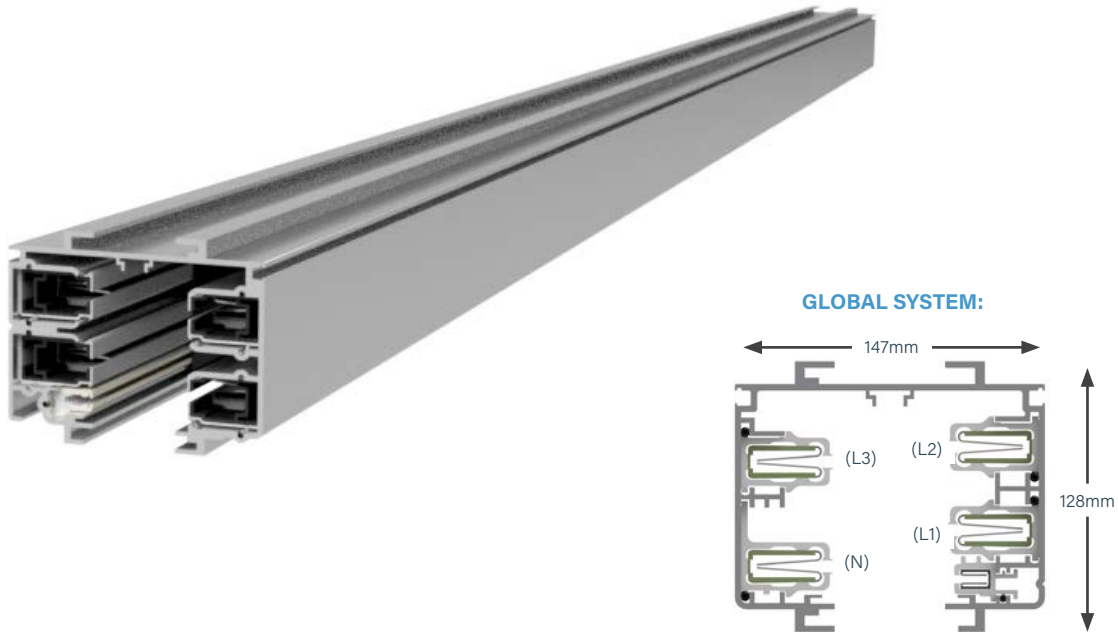
For further information on applicable T5 plug-in unit options, please consult the factory.

630T5 SYSTEMS

STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight sections consist of an extruded aluminum shell with your 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% protective earth 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% Protective Earth
630 Amps
415 Volt

GLOBAL

Length

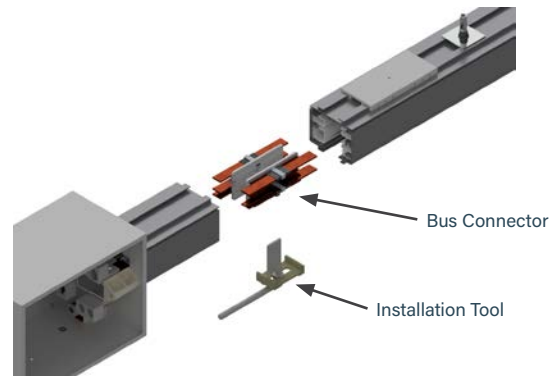
1.5 m, Max 6 m or custom lengths between .6 - 6 m

Weight

3 m 4 pole: 52.1 kg
3 m 4 pole w/ ground: 54.4 kg

METRIC

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



STRAIGHT SECTIONS: PRODUCT NUMBERS

1. System <i>(standard of measure)</i> G Global	9. Busway Access <i>(how plugs access the busway)</i> C Continuous
2. Product Type <i>(section component)</i> S Straight Section	10. Paint Color <i>(allows painting of the busway housing)</i> STD Paint Factory Silver BLK Paint Factory Black WHT Paint Factory White RED Paint Factory Red BLU Paint Factory Blue **RAL <i>(please see page 4.80)</i>
3. Product Frame <i>(maximum amperage)</i> 630 630 amps	11. Tape Marking <i>(colored tape on both sides of busway housing)</i> 0 No Tape Marking 3 Tape Factory Black 4 Tape Factory White 6 Tape Factory Red 7 Tape Factory Blue 8 Tape Factory Green 9 Tape Factory Yellow
4. Compatibility <i>(frame compatibility)</i> T5 T5 Series K5 T5 Series (Limiting Strip)	
5. Material <i>(busbar material)</i> C Copper	
6. Neutral/Ground Busbar <i>(size of neutral busbar and/or ground)</i> 4 3 Phase plus Neutral G 3 Phase plus Neutral plus Internal Ground Conductor	
7. Polarization <i>(orientation of section for mating purposes)</i> S Standard	
8. Straight Length <i>(length of section)</i> MXYY X = meters, YY = centimeters	

GS630K5HGS-M225P-P013 = Global System, Straight Section, 630 amps, T5 Series K5 (Limiting Strip), Hybrid Conductor, 3 Phase plus Neutral plus Internal Ground Connector, Standard Polarization, 2.25 meter Straight Length, Painted RAL 1001, Factory Black Tape Marking

630T5 SYSTEMS

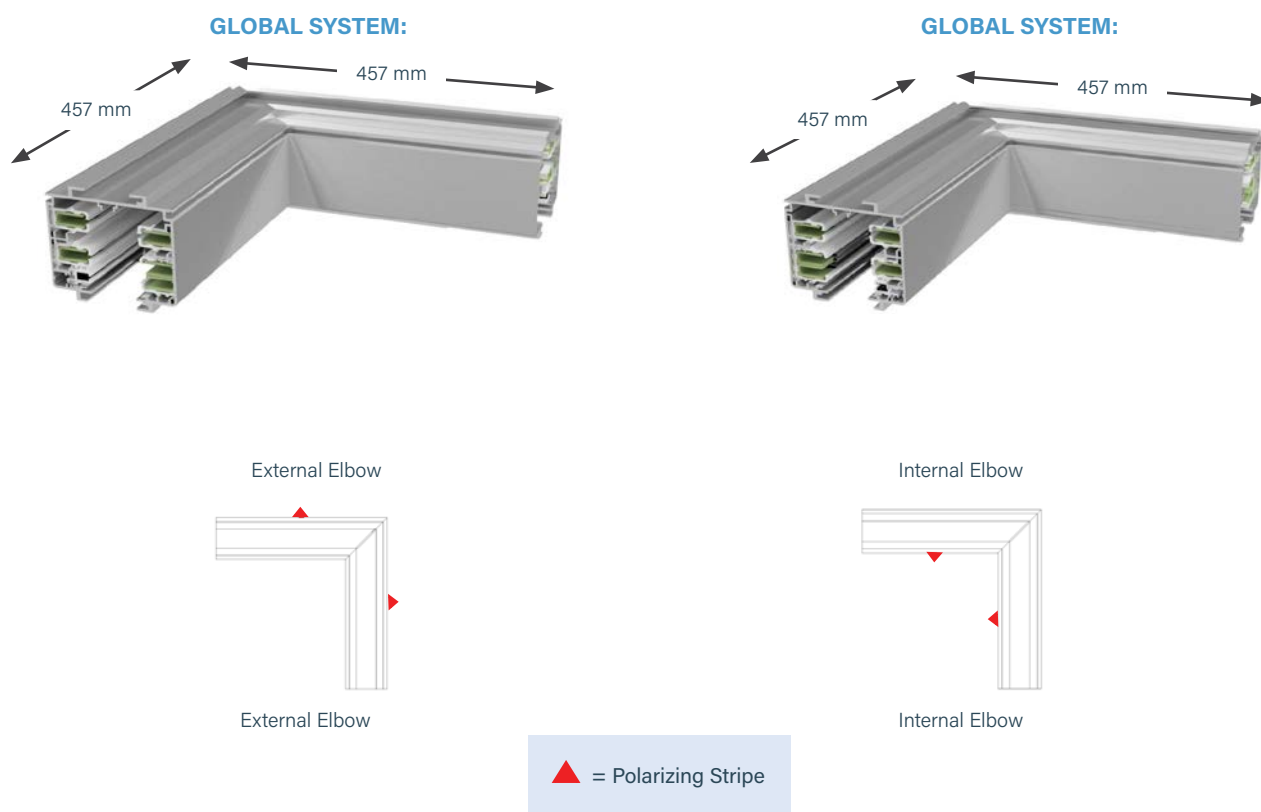
ELBOW SECTIONS

■ 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

A joint kit (**page 4.84**) is used to make mechanical and electrical connections to adjacent busway sections (*ordered separately*).



ELBOW SECTIONS: PRODUCT NUMBERS

G	E	630	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 <i>(standard of measure)</i>		8. Turning Direction <i>(direction of section polarizing stripe)</i>	
G	Global	IN	Internal
2. Product Type <i>(section component)</i>		EX	External
E	Elbow Section	HN	Seismic Internal
3. Product Frame <i>(maximum amperage)</i>		GX	Seismic External
630	630 amps	9. Paint Color <i>(allows painting of the busway housing)</i>	
4. Compatibility <i>(frame compatibility)</i>		STD	Factory Mill Finish
T5	T5 Series	RED	Paint Factory Red
K5	T5 Series (Limiting Strip)	BLK	Paint Factory Black
5. Material <i>(busbar material)</i>		BLU	Paint Factory Blue
C	Copper	**RAL	<i>(please see page 4.80)</i>
6. Neutral/Ground Busbar <i>(size of neutral busbar and/or ground)</i>		10. Tape Marking <i>(colored tape on both sides of busway housing)</i>	
4	3 Phase plus Neutral	0	No Tape Marking
G	3 Phase plus Neutral plus Internal Ground Conductor	3	Tape Factory Black
7. Polarization <i>(orientation of section for mating purposes)</i>		4	Tape Factory White
S	Standard	6	Tape Factory Red
		7	Tape Factory Blue
		8	Tape Factory Green
		9	Tape Factory Yellow

GE630T5HGS-EX-BLK0 = Global System, Elbow Section, 630 amps, T5 Series, Hybrid Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External Turning Direction, Painted Factory Black

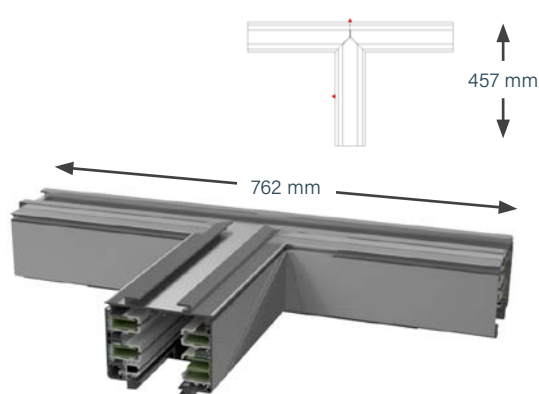
630T5 SYSTEMS

TEE SECTIONS

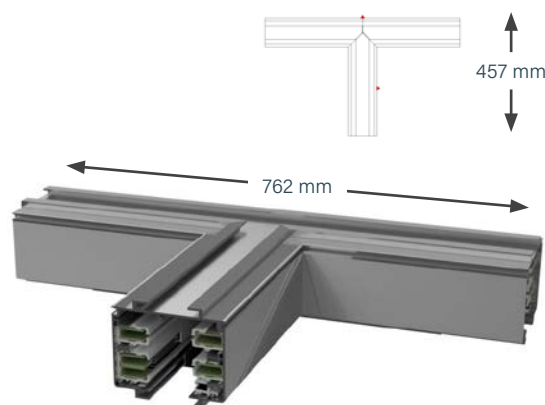
■ PRODUCT DESCRIPTION

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.

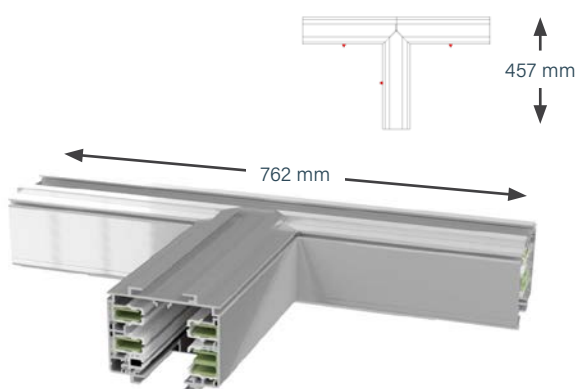
Global System Weight 21.8 kg



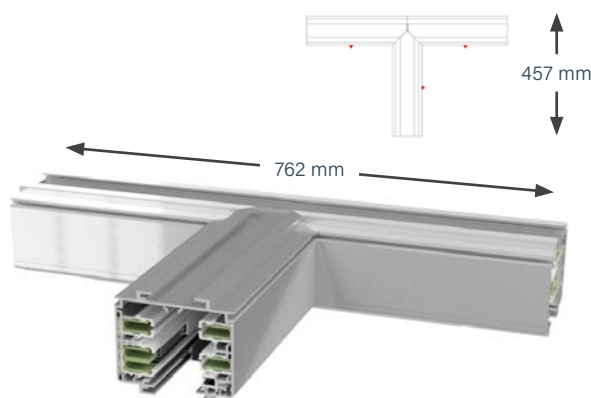
EXTERNAL-LEFT (EL)



EXTERNAL-RIGHT (ER)



INTERNAL-LEFT (IL)



INTERNAL-RIGHT (IR)

▲ = Polarizing Stripe

TEE SECTIONS: PRODUCT NUMBERS

G	T	630	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 <i>(standard of measure)</i>	8. Turning Direction <i>(direction of section polarizing stripe)</i>
G Global	IL Internal-Left IR Internal-Right EL External-Left ER External-Right
2. Product Type <i>(section component)</i>	HL Seismic Internal-Left HR Seismic Internal-Right GL Seismic External-Left GR Seismic External-Right
T Tee Section	
3. Product Frame <i>(maximum amperage)</i>	9. Paint Color <i>(allows painting of the busway housing)</i>
630 630 amps	STD Factory Mill Finish BLK Paint Factory Black WHT Paint Factory White
4. Compatibility <i>(frame compatibility)</i>	RED Paint Factory Red BLU Paint Factory Blue **RAL <i>(please see page 4.80)</i>
T5 T5 Series K5 T5 Series (Limiting Strip)	10. Tape Marking <i>(colored tape on both sides of busway housing)</i>
5. Material <i>(busbar material)</i>	0 No Tape Marking 3 Tape Factory Black 4 Tape Factory White 6 Tape Factory Red
C Copper	7 Tape Factory Blue 8 Tape Factory Green 9 Tape Factory Yellow
6. Neutral/Ground Busbar <i>(size of neutral busbar and/or ground)</i>	
4 3 Phase plus Neutral G 3 Phase plus Neutral plus Internal Ground Conductor	
7. Polarization <i>(orientation of section for mating purposes)</i>	
S Standard	

GT630K5HGS-EL-STD0 = Global System, Tee Section, 630 amps, T5 Series K5 (Limiting Strip), Hybrid Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External-Left Turning Direction, Painted Factory Silver, No Tape Marking

630T5 SYSTEMS

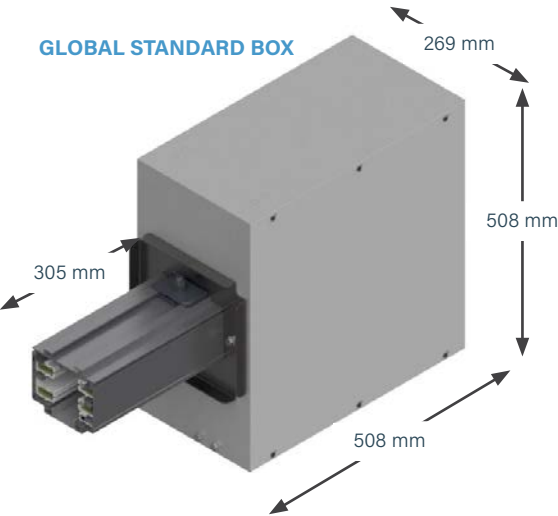
END FEED UNITS

PRODUCT DESCRIPTION

Standard end power feed units connect to the end of the busway. Factory assembled unit consists of a steel junction box, with removable side, connected to a 0.3 meter section of busway. The assembly includes protective earth lugs for wires up to 350MCM and connection lugs that can handle up to (2) 300 mm² wires (CU) or (2) 300 mm² 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 101.6 millimeter 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.

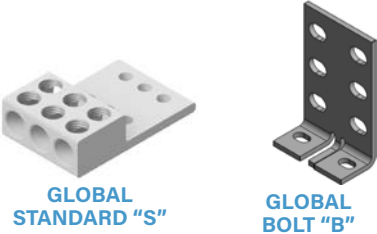
Global System Weight 16.3 kg



	GLOBAL BOXES		
LUGS	Standard	Large	Fused
Standard	S		
Double			
Bolt*	B		

*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



630T5 SYSTEMS

END FEED UNITS: METERING

■ PRODUCT DESCRIPTION

End feed units can be populated with Starline's Critical Power Monitor to provide access to revenue-grade, three-phase power data. The M70 CPM is built with a 109 mm LCD touchscreen display that can be angled down for easier viewing from the floor.

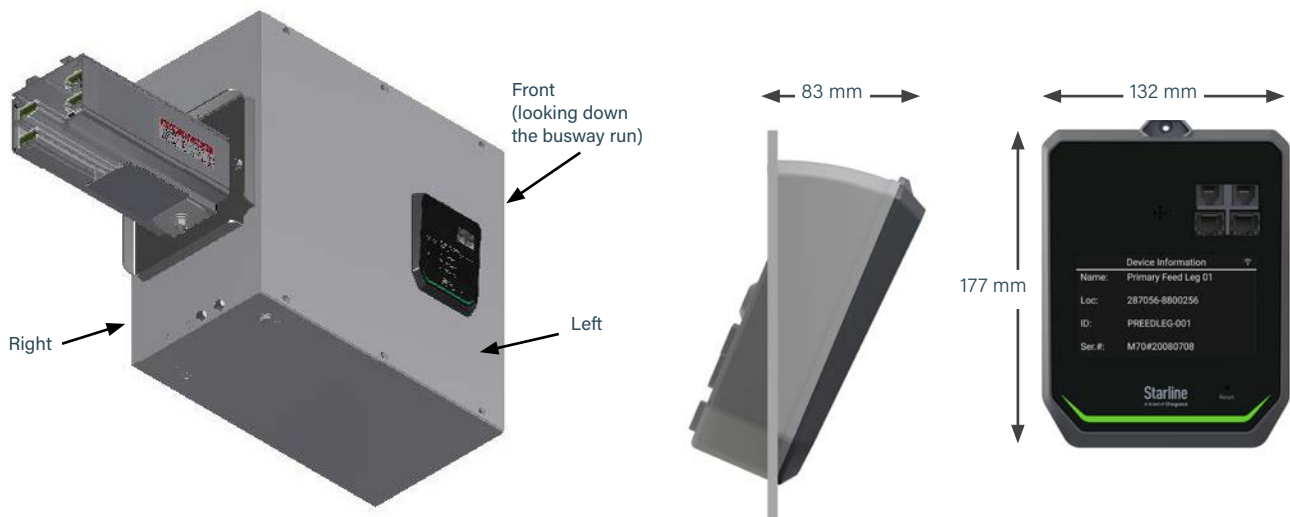
Wired ethernet and serial communications are standard with (2) RJ11 and (2) RJ45 jacks built in for easy daisy chaining. Optional 802.11n Wi-Fi connectivity is also available. Both serial Modbus and Ethernet-based protocols can be used simultaneously. These include: SNMP (v1, v2 & v3), Modbus RTU and TCP/IP, BACnet, HTTPS, and SSH.

Firmware communication options (IPv4, IPv6, DHCP, WPA2) are pre-packaged into the meter build. While these options are selected and then enabled during factory assembly, they can be re-configured at any time in the field. The M70 CPM is compatible with all major DCIM and BMS packages.

The M70 CPM can also be complemented with end feed accessories, such as real-time lug temperature monitoring, IR window scanning and audible alarms. Unlike firmware options, these hardware features are not field changeable.

The M70 is available in 110-500vac, 48vdc and 380vdc versions.

STANDARD BOX



*The above arrows show how to determine your meter location on an end feed (Refer to option 9. Meter Location on **page 4.48** End Feed Units: Product Numbers).

630T5 SYSTEMS

END FEED UNITS: ACCESSORIES

IR WINDOWS

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

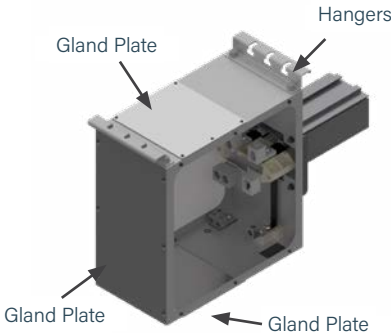
When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

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



END FEED HANGERS & GLAND PLATES

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



FEATURES & BENEFITS

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

GENERAL SPECIFICATIONS

Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Aluminum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T5); IP54 (S5)
Max Operating Temperature	125°C

WINDOW DIMENSIONS

End Feeds: 400A and Below	5"(127mm) x 7" (178mm)
End Feeds: 630A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17. M70 Options on **page 4.49** End Feed Metering: Product Numbers)

(Refer to option 10. Accessories Package on **page 4.48** End Feed Units: Product Numbers)

630T5 SYSTEMS

END FEED METERING: PRODUCT NUMBERS

G	F	630	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	
– M030 C – STD 0 – M73 00 1 <i>*Optional</i>											
		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 (M70 AC)

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*16. Meter Release (M70 DC)

M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*17. Meter Options (M70 AC and DC)

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*18. System Configuration and CT Type (M70 AC)

1 Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral
8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Y, Solid CTs, Millivolt, Measured Neutral
C Y, Split CTs, 5A-secondary, Measured Neutral

*18. System Configuration and CT Type (M70 AC)

J DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT



M73
 (2) RJ11, (2) RJ45,
 Lg. Display



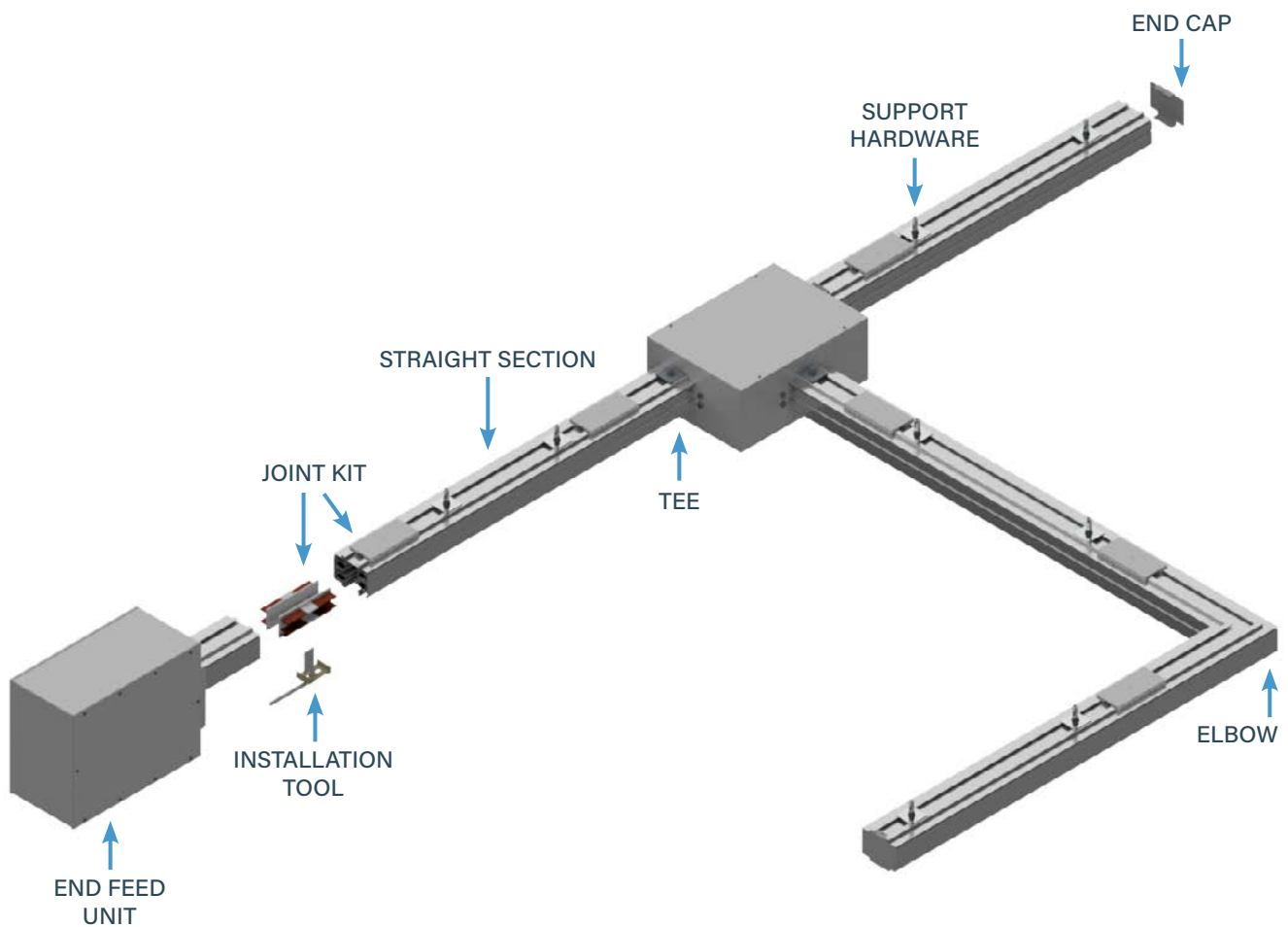
M76
 Wi-Fi + (2) RJ11,
 (2) RJ45, Lg. Display

EXAMPLE

GF630T5C4R-SLSN-M030C-BLK0-M73001 = Global System, End Feed, 630 amps, T5 Series, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Left Meter Location, Standard Accessory Package, No Accessory Location, .3 meter Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral

800T5 SYSTEMS

SYSTEM LAYOUT DRAWING



PLUG-IN UNITS

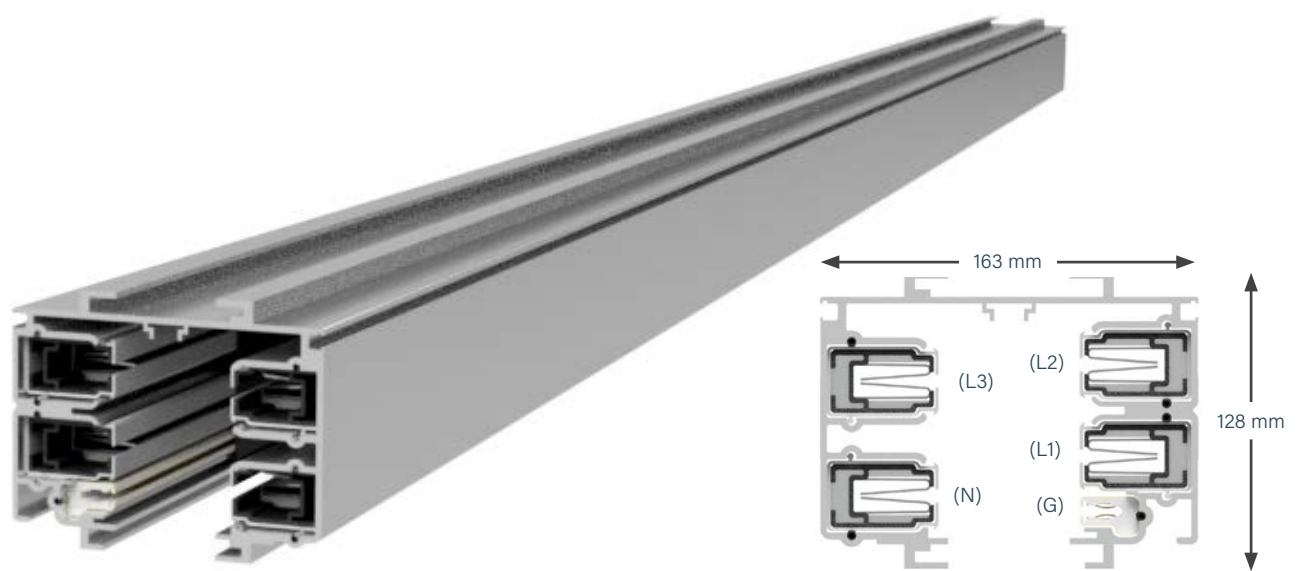
For further information on applicable T5 plug-in unit options, please consult the factory.

800T5 SYSTEMS

STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight sections consist 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% protective earth. 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% Protective Earth
800 Amps
415 Volt
LENGTH
1.5 m, Max 3 m or custom lengths between .6 - 3 m
WEIGHT
3 m 4 pole w/ ground: 69 kg- Hybrid
3 m 4 pole w/ ground: 98 kg- Copper

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

STRAIGHT SECTIONS: PRODUCT NUMBERS

The diagram shows a 10-position busbar assembly. The positions are labeled as follows:

- 1. System
- 2. Product Type
- 3. Product Frame
- 4. Compatibility
- 5. Material
- 6. Neutral/Ground Busbar
- 7. Polarization
- 8. Straight Length
- 9. Busway Access
- 10. Tape Marking

The assembly is represented by a series of colored blocks: M (blue), S (light blue), 800 (dark blue), T5 (light blue), C (blue), 4 (dark blue), S (light blue), - M100 (dark blue), and C (blue). A dashed line separates the first 9 positions from the 10th position, which is labeled - STD 0.

1. System <i>(standard of measure)</i> M Metric	
2. Product Type <i>(section component)</i> S Straight Section	
3. Product Frame <i>(maximum amperage)</i> 800 800 amps	
4. Compatibility <i>(frame compatibility)</i> T5 T5 Series K5 T5 Series (Limiting Strip)	
5. Material <i>(busbar material)</i> C Copper H Hybrid (Cu/Al)	
6. Neutral/Ground Busbar <i>(size of neutral busbar and/or ground)</i> 4 3 Phase plus Neutral G 3 Phase plus Neutral plus Internal Ground Conductor	
7. Polarization <i>(orientation of section for mating purposes)</i> S Standard	
8. Straight Length <i>(length of section)</i> MXYY X = meters, YY = centimeters	
9. Busway Access <i>(how plugs access the busway)</i> C Continuous	
10. Paint Color <i>(allows painting of the busway housing)</i> STD Factory Mill Finish RED Paint Factory Red BLK Paint Factory Black BLU Paint Factory Blue WHT Paint Factory White **RAL <i>(please see page 4.80)</i> <i>**Standard offering (STD) will be Factory Mill Finish for Metric (M) systems & Factory Silver Paint for Global (G) systems</i>	
11. Tape Marking <i>(colored tape on both sides of busway housing)</i> 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	

MS800K5CGS-M225C-P013 = Metric System, Straight Section, 800 amps, T5 Series K5 (Limiting Strip), Copper Conductor, 3 Phase plus Neutral plus Internal Ground Connector, Standard Polarization, 2.25 meter Straight Length, Painted RAL 1001, Factory Black Tape Marking

800T5 SYSTEMS

ELBOW SECTIONS

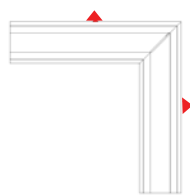
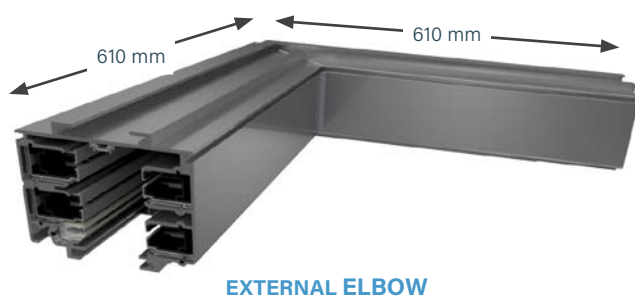
■ PRODUCT DESCRIPTION

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.

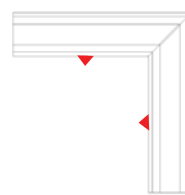
Connection Accessories

A joint kit (**page 4.84**) is used to make mechanical and electrical connections to adjacent busway sections (*ordered separately*).

Weight 23.1 kg- Hybrid



External Elbow



Internal Elbow

▲ = Polarizing Stripe

ELBOW SECTIONS: PRODUCT NUMBERS

M	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 <i>(standard of measure)</i> M Metric	
2. Product Type <i>(section component)</i> E Elbow Section	
3. Product Frame <i>(maximum amperage)</i> 800 800 amps	
4. Compatibility <i>(frame compatibility)</i> T5 T5 Series K5 T5 Series (Limiting Strip)	
5. Material <i>(busbar material)</i> C Copper H Hybrid (Cu/Al)	
6. Neutral/Ground Busbar <i>(size of neutral busbar and/or ground)</i> 4 3 Phase plus Neutral G 3 Phase plus Neutral plus Internal Ground Conductor	
7. Polarization <i>(orientation of section for mating purposes)</i> S Standard	
8. Turning Direction <i>(direction of section polarizing stripe)</i> IN Internal EX External	
9. Paint Color <i>(allows painting of the busway housing)</i> STD Factory Mill Finish RED Paint Factory Red BLK Paint Factory Black BLU Paint Factory Blue WHT Paint Factory White **RAL <i>(please see page 4.80)</i> <i>**Standard offering (STD) will be Factory Mill Finish for Metric (M) systems & Factory Silver Paint for Global (G) systems</i>	
10. Tape Marking <i>(colored tape on both sides of busway housing)</i> 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	

ME800T5CGS-EX-BLK0 = Metric System, Elbow Section, 800 amps, T5 Series, Copper Conductor, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External Turning Direction, Painted Factory Black, No Tape Marking

800T5 SYSTEMS

END FEED UNITS

PRODUCT DESCRIPTION

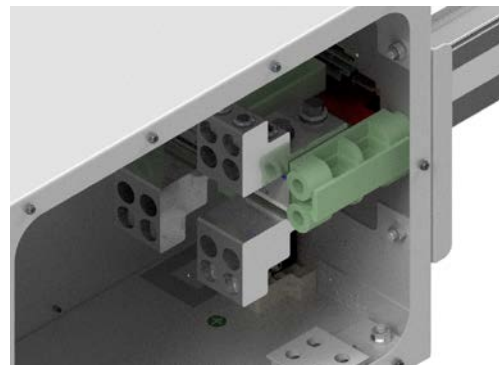
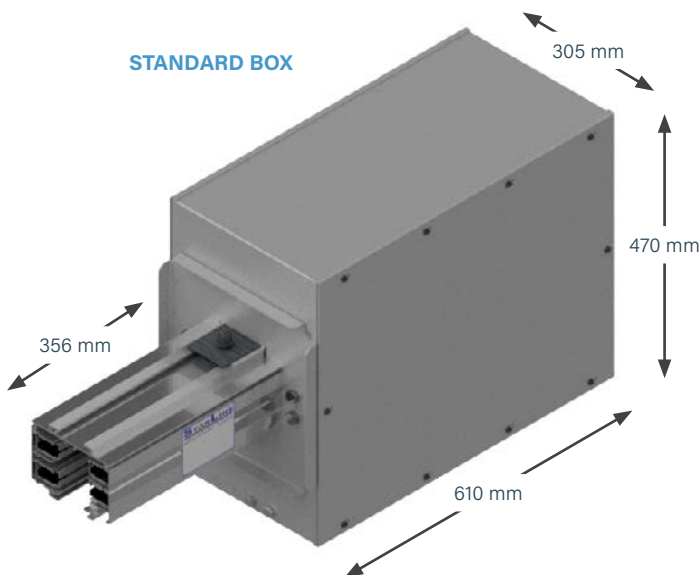
Standard end power feed units connect to the end of the Busway. Factory assembled unit consists of a 470 x 610 x 305 millimeter steel junction box, with removable side, connected to an 0.3 meter section of busway. The assembly includes ground lugs for wires up to 185mm² and connection lugs that can handle up to (2) 300mm² wires (CU) or (2) 300 mm² 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 101.6 millimeter 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 38.3 kg



DOUBLE LUGS

	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.

*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



METRIC STANDARD "S"



METRIC DOUBLE "D"



METRIC QUAD "Q"



METRIC BOLT "B"

800T5 SYSTEMS

END FEED UNITS: METERING

■ PRODUCT DESCRIPTION

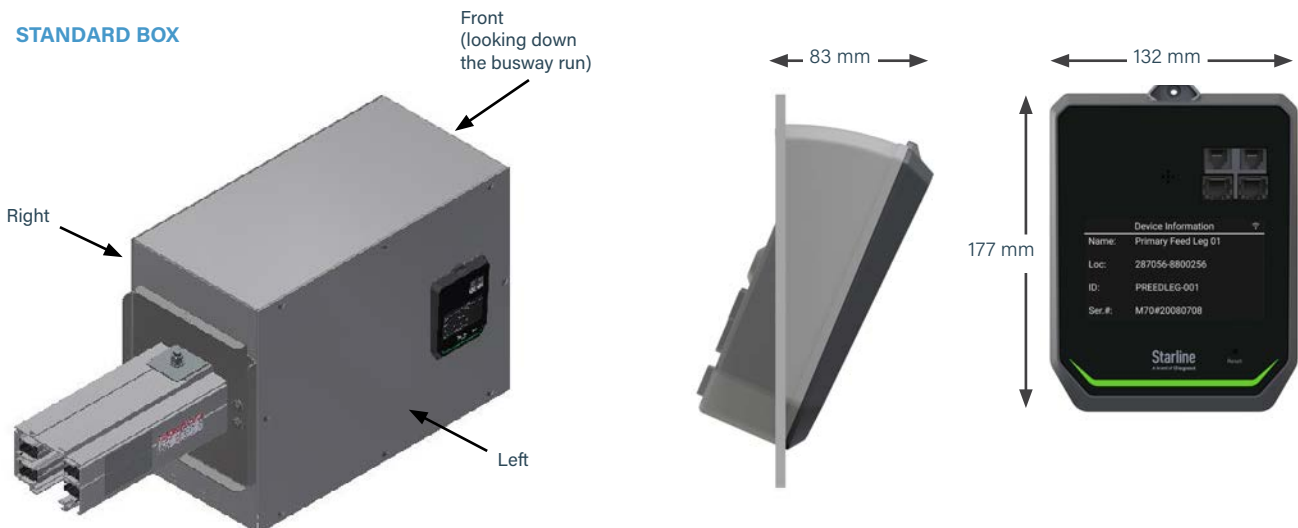
End feed units can be populated with Starline's Critical Power Monitor to provide access to revenue-grade, three-phase power data. The M70 CPM is built with a 109 mm LCD touchscreen display that can be angled down for easier viewing from the floor.

Wired ethernet and serial communications are standard with (2) RJ11 and (2) RJ45 jacks built in for easy daisy chaining. Optional 802.11n Wi-Fi connectivity is also available. Both serial Modbus and Ethernet-based protocols can be used simultaneously. These include: SNMP (v1, v2 & v3), Modbus RTU and TCP/IP, BACnet, HTTPS, and SSH.

Firmware communication options (IPV4, IPV6, DHCP, WPA2) are pre-packaged into the meter build. While these options are selected and then enabled during factory assembly, they can be re-configured at any time in the field. The M70 CPM is compatible with all major DCIM and BMS packages.

The M70 CPM can also be complemented with end feed accessories, such as real-time lug temperature monitoring, IR window scanning and audible alarms. Unlike firmware options, these hardware features are not field changeable.

The M70 is available in 110-500vac, 48vdc and 380vdc versions.



*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).

800T5 SYSTEMS

END FEED UNITS: ACCESSORIES

IR WINDOWS

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

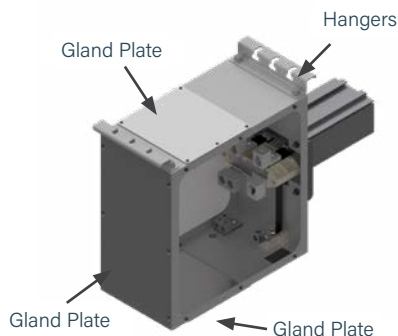
When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

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



END FEED HANGERS & GLAND PLATES

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



FEATURES & BENEFITS

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

GENERAL SPECIFICATIONS

Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Aluminum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T5); IP54 (S5)
Max Operating Temperature	125°C

WINDOW DIMENSIONS

End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 630A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17. M70 Options on **page 4.59** End Feed Metering: Product Numbers)

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

800T5 SYSTEMS

END FEED UNITS: PRODUCT NUMBERS

M	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	
- M035 C - STD 0 - M73 00 1 <i>*Optional</i>											
		12. Straight Length	13. Busway Access	14. Paint Color	15. Tape Marking	*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type			

1. System (standard of measure)

M Metric

2. Product Type (section component)

F End Feed

3. Product Frame (maximum amperage)

800 800 amps

4. Compatibility (frame compatibility)

T5 T5 Series **K5** T5 Series (Limiting Strip)

5. Material (busbar material)

C Copper **H** Hybrid (Cu/Al)Strip

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, side with removable lid)

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

10. Accessories Package (optional accessories for feed units)

S Standard
C IR Window - Circular
F End Feed Hanger & Gland Plates
U Starline Rect. IR window, 8" (203mm) x 12" (305mm)
B (C+F)
P (U+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)

M035 .35 meters

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

MF800T5C4R-SLSN-M035P-BLK0 = Metric System, End Feed, 800 amps, T5 Series, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Left Meter Location, Standard Accessory Package, No Accessory Location, .35 meter Straight Length, Access Panels, Painted Factory Black, No Tape Marking

800T5 SYSTEMS

END FEED METERING: PRODUCT NUMBERS

M	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	
– M035 C – STD 0 – M73 00 1 <i>*Optional</i>											
		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 (M70 AC)

- M73** (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*16. Meter Release (M70 DC)

- M7C** (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*17. Meter Options (M70 AC and DC)

- 0A** IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

*18. System Configuration and CT Type (M70 AC)

- 1** Δ, Solid CTs, Millivolt, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
5 Y, Solid CTs, Millivolt, No Measured Neutral

8 Y, Split CTs, 5A-secondary, No Measured Neutral
9 Y, Solid CTs, Millivolt, Measured Neutral
C Y, Split CTs, 5A-secondary, Measured Neutral

*18. System Configuration and CT Type (M70 DC)

- J** DC Circuit 1, Solid CT
K DC Circuit 2, Solid CT
L DC Both Circuits, Solid CT



M73
 (2) RJ11, (2) RJ45,
 Lg. Display



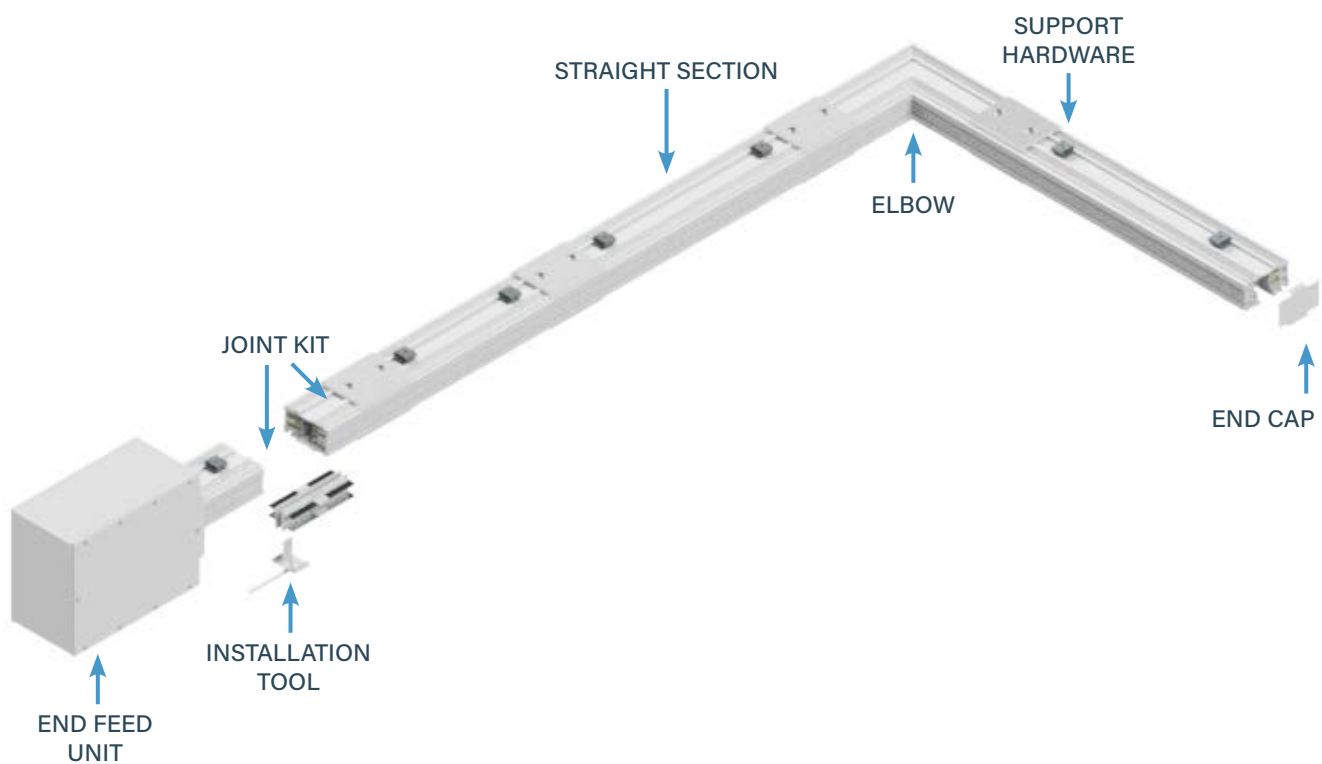
M76
 Wi-Fi + (2) RJ11,
 (2) RJ45, Lg. Display

EXAMPLE

MF800T5C4R-SLSN-M035P-BLK0-M73001 = Metric System, End Feed, 800 amps, T5 Series, Copper Conductor, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Left Meter Location, Standard Accessory Package, No Accessory Location, .35 meter Straight Length, Access Panels, Painted Factory Black, No Tape Marking, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral

1000T5 SYSTEMS

SYSTEM LAYOUT DRAWING



PLUG-IN UNITS

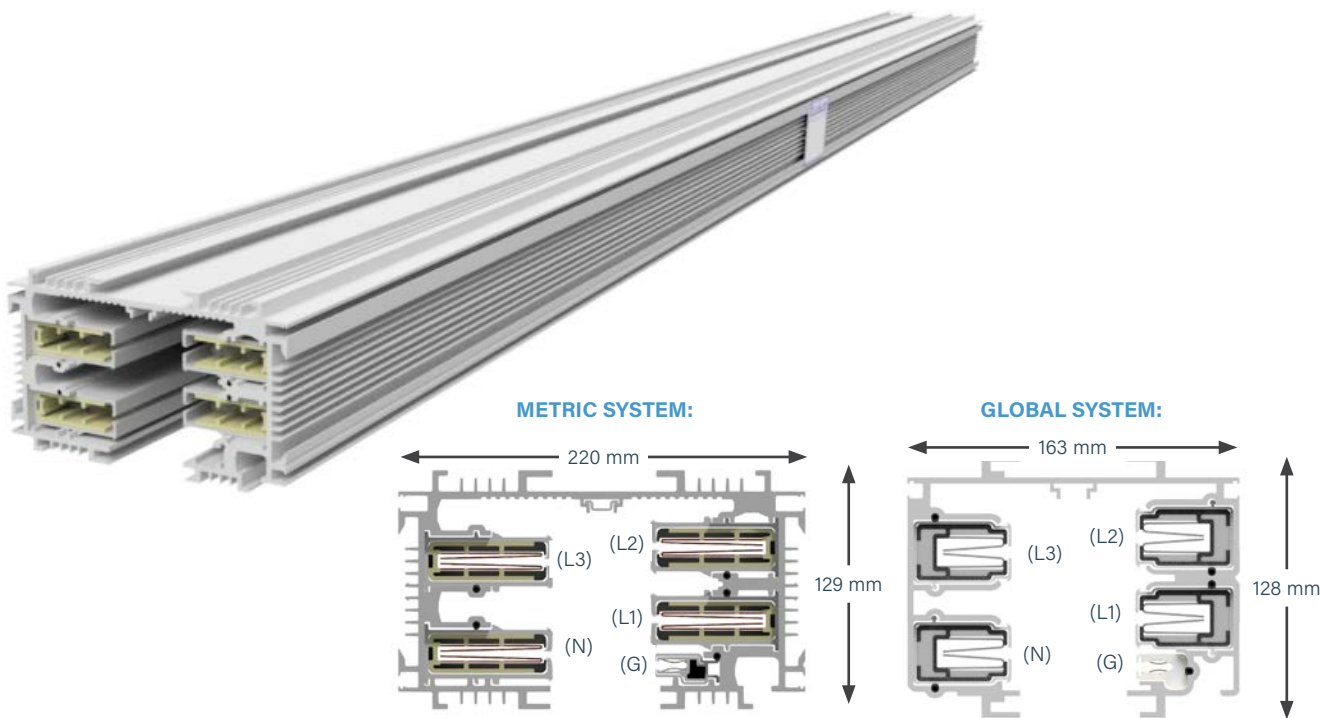
For further information on applicable T5 plug-in unit options, please consult the factory.

1000T5 SYSTEMS

STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight sections consist 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 protective earth. 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 earth. 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% Protective Earth
1000 Amps
415 Volt

LENGTH

1.5 m, Max 3 m or custom lengths between .6 - 3 m

WEIGHT

Metric

3 m 4 pole w/ ground: 95 kg (Hybrid)

Global

3 m 4 pole w/ Iso ground: 69 kg (Hybrid)

GLOBAL/METRIC

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

STRAIGHT SECTIONS: PRODUCT NUMBERS



1. System <i>(standard of measure)</i> M Metric G Global	
2. Product Type <i>(section component)</i> S Straight Section	
3. Product Frame <i>(maximum amperage)</i> 1K0 1000 amps	
4. Compatibility <i>(frame compatibility)</i> T5 T5 Series K5 T5 Series (Limiting Strip)	
5. Material <i>(busbar material)</i> H Hybrid (Cu/Al)	
6. Neutral/Ground Busbar <i>(size of neutral busbar and/or ground)</i> 4 3 Phase plus Neutral G 3 Phase plus Neutral plus Internal Ground Conductor	
7. Polarization <i>(orientation of section for mating purposes)</i> S Standard	
8. Straight Length <i>(length of section)</i> MXYY X = meters, YY = centimeters	
9. Busway Access <i>(how plugs access the busway)</i> C Continuous	
10. Paint Color <i>(allows painting of the busway housing)</i> STD Factory Mill Finish RED Paint Factory Red BLK Paint Factory Black BLU Paint Factory Blue WHT Paint Factory White **RAL <i>(please see page 4.80)</i> <i>**Standard offering (STD) will be Factory Silver Paint for Global (G) systems</i>	
11. Tape Marking <i>(colored tape on both sides of busway housing)</i> 0 None	

GS1K0K5HGS-M200C-P010 = Global System, Straight Section, 1000 amps, T5 Series K5 (Limiting Strip), Hybrid, 3 Phase plus Neutral plus Internal Ground Connector, Standard Polarization, 2 meter Straight Length, Continuous Busway Access, Painted RAL 1001, No Tape Marking

1000T5 SYSTEMS

ELBOW SECTIONS

■ PRODUCT DESCRIPTION

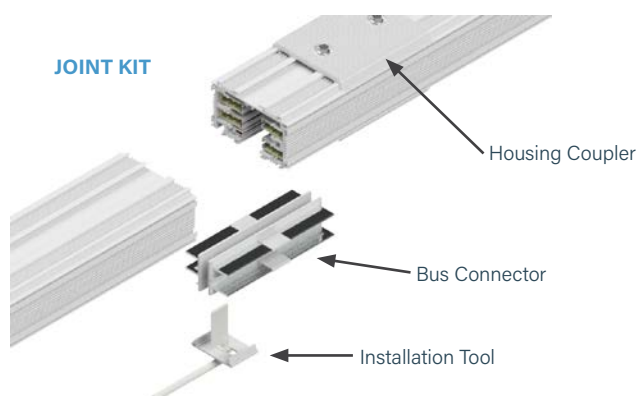
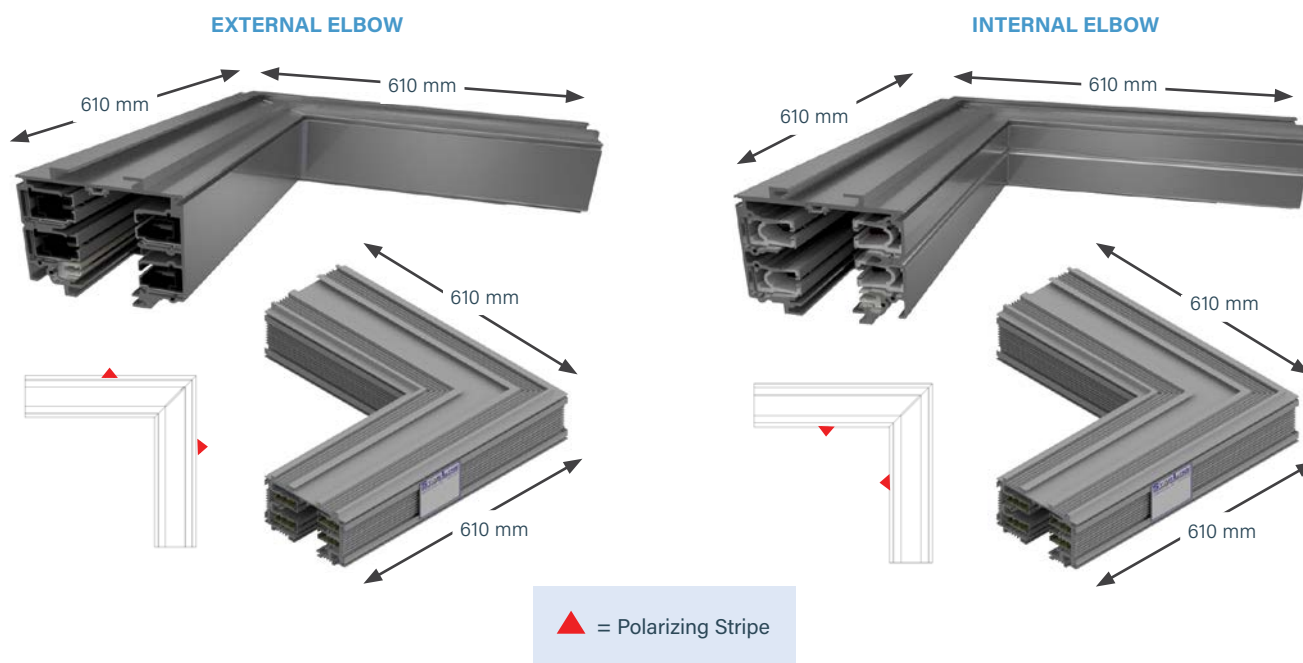
An elbow is used for making a horizontal 90 degree change of direction in a busway run. Specify external or internal elbow, according to the orientation of the polarizing strip in the busway sections to be connected.

Connection Accessories

A joint kit is used to make mechanical and electrical connections to adjacent busway sections (*ordered separately*).

Metric Weight 35 kg

Global Weight 23.1 kg



ELBOW SECTIONS: PRODUCT NUMBERS

M	E	1K0	T5	H	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 <i>(standard of measure)</i>	
M Metric	G Global
2. Product Type <i>(section component)</i>	
E Elbow Section	
3. Product Frame <i>(maximum amperage)</i>	
1K0 1000 amps	
4. Compatibility <i>(frame compatibility)</i>	
T5 T5 Series	K5 T5 Series (Limiting Strip)
5. Material <i>(busbar material)</i>	
H Hybrid (Cu/Al)	
6. Neutral/Ground Busbar <i>(size of neutral busbar and/or ground)</i>	
4 3 Phase plus Neutral	G 3 Phase plus Neutral plus Internal Ground Conductor
7. Polarization <i>(orientation of section for mating purposes)</i>	
S Standard	
8. Turning Direction <i>(direction of section polarizing stripe)</i>	
IN Internal	EX External
9. Paint Color <i>(allows painting of the busway housing)</i>	
STD Factory Mill Finish	RED Paint Factory Red
BLK Paint Factory Black	BLU Paint Factory Blue
WHT Paint Factory White	**RAL <i>(please see page 4.80)</i>
10. Tape Marking <i>(colored tape on both sides of busway housing)</i>	
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	
**Colored tape options available in Global (G) only	

GEIK0T5HGS-EX-STD0 = Global System, Elbow Section, 1000 amps, T5 Series, Hybrid, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External Turning Direction, Factory Mill Finish, No Tape Marking

1000T5 SYSTEMS

END FEED UNITS

■ PRODUCT DESCRIPTION

Standard end power feed units connect to the end of the Busway. Factory assembled unit consists of a 470 x 610 x 305 millimeter steel junction box, with removable side, connected to an 0.3 meter section of busway. The assembly includes ground lugs for wires up to 185mm² and connection lugs that can handle up to (2) 300mm² wires (CU) or (2) 300 mm² 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*).

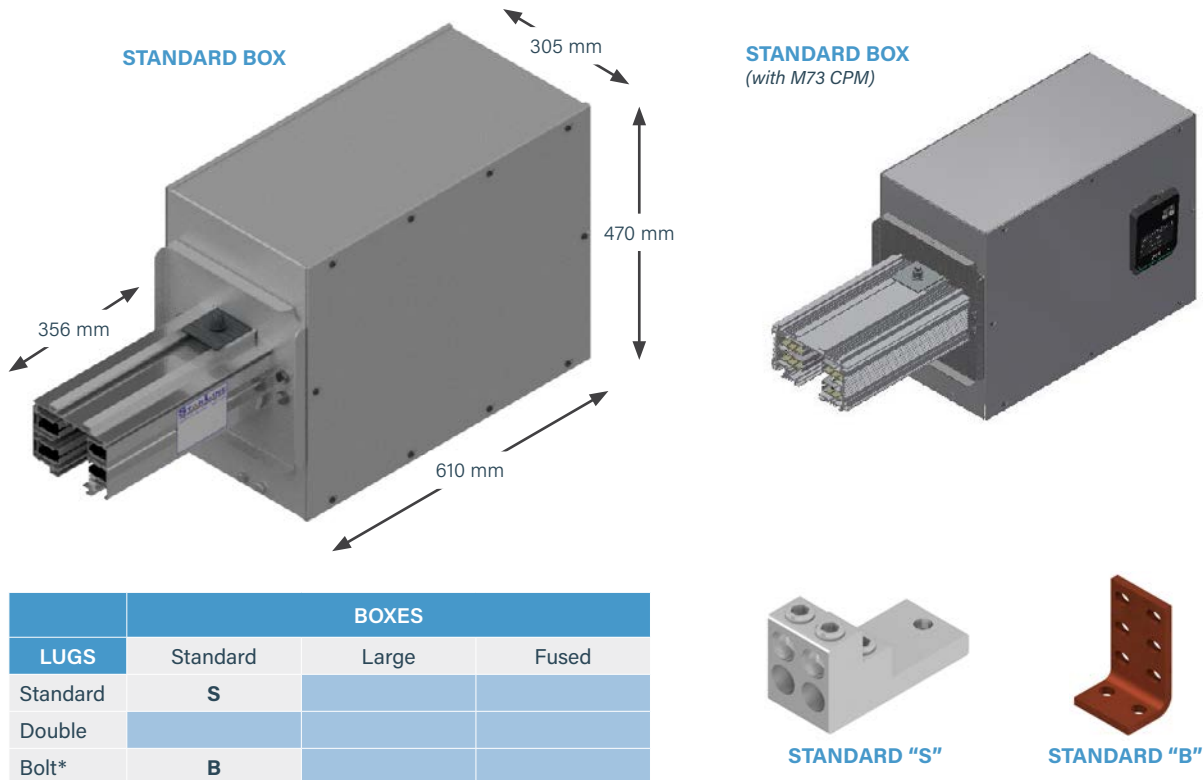
Junction box is sized such that three 101.6 millimeter conduits can be installed in the end of the box.

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.

Metric Weight 45.6 kg (34.5 kg without busway stub)

Global Weight 38.3 kg



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.

*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

1000T5 SYSTEMS

END FEED UNITS: METERING

■ PRODUCT DESCRIPTION

End feed units can be populated with Starline's Critical Power Monitor to provide access to revenue-grade, three-phase power data. The M70 CPM is built with a 109 mm LCD touchscreen display that can be angled down for easier viewing from the floor.

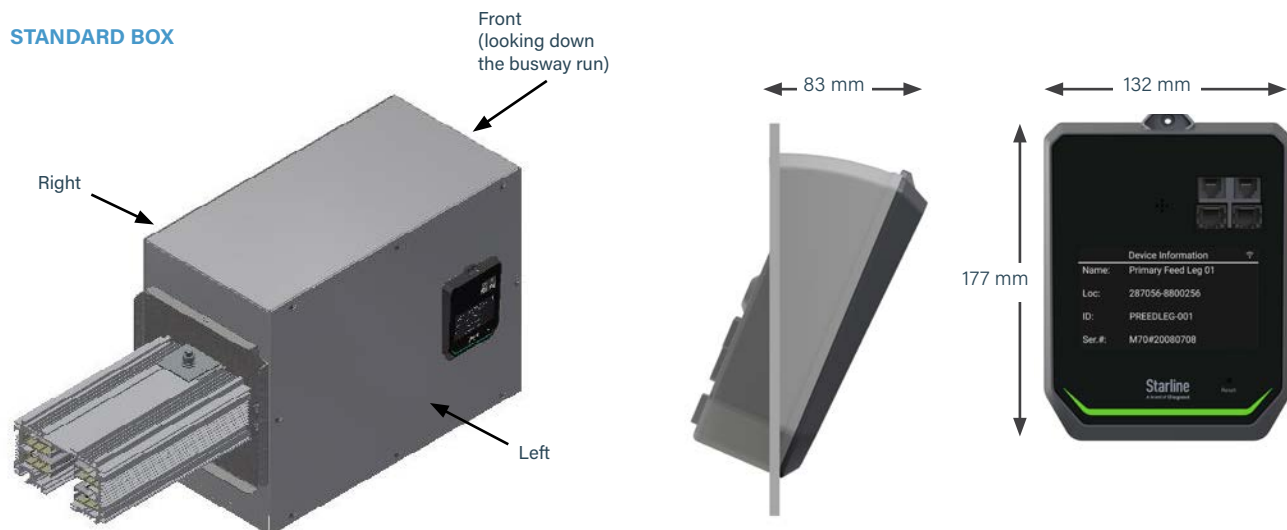
Wired ethernet and serial communications are standard with (2) RJ11 and (2) RJ45 jacks built in for easy daisy chaining. Optional 802.11n Wi-Fi connectivity is also available. Both serial Modbus and Ethernet-based protocols can be used simultaneously. These include: SNMP (v1, v2 & v3), Modbus RTU and TCP/IP, BACnet, HTTPS, and SSH.

Firmware communication options (IPV4, IPV6, DHCP, WPA2) are pre-packaged into the meter build. While these options are selected and then enabled during factory assembly, they can be re-configured at any time in the field. The M70 CPM is compatible with all major DCIM and BMS packages.

The M70 CPM can also be complemented with end feed accessories, such as real-time lug temperature monitoring, IR window scanning and audible alarms. Unlike firmware options, these hardware features are not field changeable.

The M70 is available in 110-500vac, 48vdc and 380vdc versions.

STANDARD BOX



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

1000T5 SYSTEMS

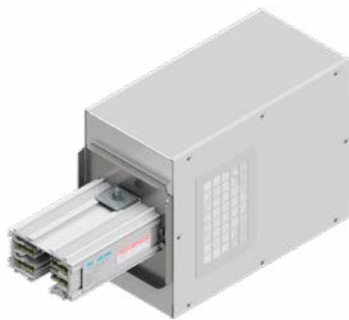
END FEED UNITS: ACCESSORIES

IR WINDOWS

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

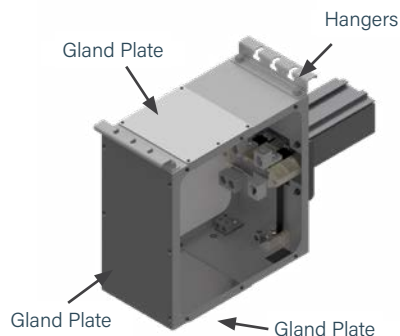
When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

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



END FEED HANGERS & GLAND PLATES

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



FEATURES & BENEFITS

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

GENERAL SPECIFICATIONS

Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Aluminum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T5); IP54 (S5)
Max Operating Temperature	125°C

WINDOW DIMENSIONS

End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 630A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17, M70 Options on **page 4.69** End Feed Metering: Product Numbers)

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

1000T5 SYSTEMS

END FEED UNITS: PRODUCT NUMBERS

M	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	
- M035 C - STD 0 - M73 00 1 <i>*Optional</i>											
		12. Straight Length	13. Busway Access	14. Paint Color	15. Tape Marking	*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type			

1. System <i>(standard of measure)</i> M Metric G Global	10. Accessories Package <i>(optional accessories for feed units)</i> S Standard C IR Window - Circular F End Feed Hanger & Gland Plates U Starline Rect. IR window, 8" (203mm) x 12" (305mm) B (C+F) P (U+F)
2. Product Type <i>(section component)</i> F End Feed	11. Accessories Location <i>(from the terminal, side with accessory)</i> N None (N/A) R Right L Left F Front (consult the factory)
3. Product Frame <i>(maximum amperage)</i> 1K0 1000 amps	12. Straight Length <i>(length of section)</i> M035 .35 meters
4. Compatibility <i>(frame compatibility)</i> T5 T5 Series K5 T5 Series (Limiting Strip)	13. Busway Access C Continuous
5. Material <i>(busbar material)</i> H Hybrid (Cu/Al)Strip	14. Paint Color <i>(allows painting of the busway housing)</i> STD Factory Mill Finish RED Paint Factory Red BLK Paint Factory Black BLU Paint Factory Blue WHT Paint Factory White **RAL <i>(please see page 4.80)</i>
6. Neutral/Ground Busbar <i>(size of neutral busbar and/or ground)</i> 4 3 Phase plus Neutral G 3 Phase plus Neutral plus Internal Ground Conductor	15. Tape Marking <i>(colored tape on both sides of busway housing)</i> 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
7. Polarization <i>(orientation of section for mating purposes)</i> S Standard R Reversed	
8. Lug/Box Options <i>(standard/double/bolt lugs and box size)</i> S Standard lugs, Standard box B Bolt lugs, Standard box	
9. Meter Location <i>(from the terminal, side with removable lid)</i> R Right L Left N None (N/A)	

EXAMPLE

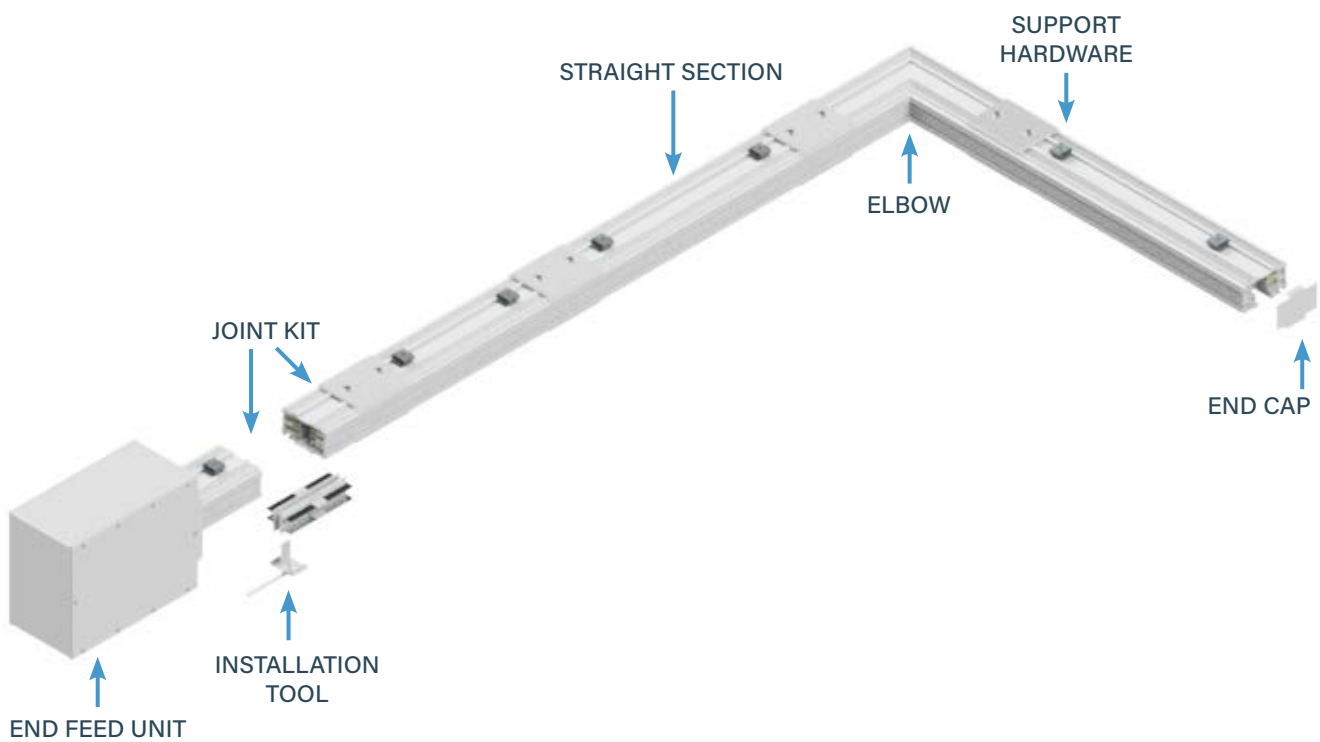
MF1K0T5H4R-SRUL-M035C-BLK0 = Metric System, End Feed, 1000 amps, T5 Series, Hybrid, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Right Meter Location, Rectangular IR window, Left Accessory Location, .35 meter Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking

END FEED METERING: PRODUCT NUMBERS

M	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
- M035 C - STD 0 - M73 00 1 <i>*Optional</i>											
		12. Straight Length	13. Busway Access	14. Paint Color	15. Tape Marking			*16. Meter Release	*17. Meter Options	*18. System Config. and CT Type	

1250T5 SYSTEMS

SYSTEM LAYOUT DRAWING



PLUG-IN UNITS

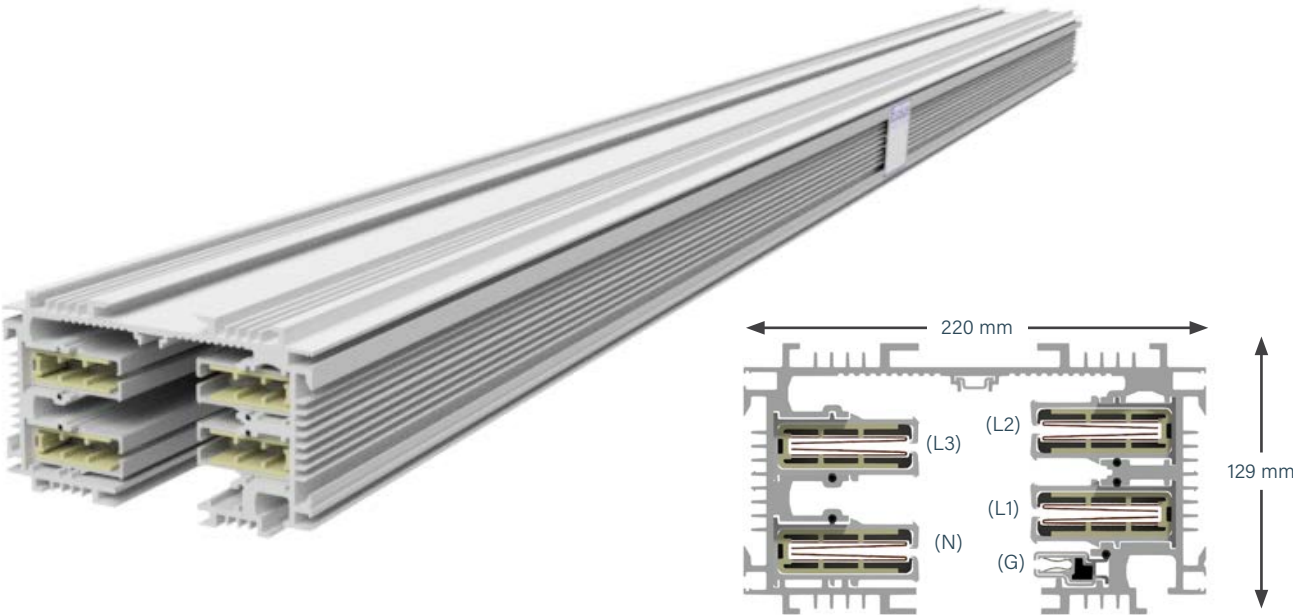
For further information on applicable T5 plug-in unit options, please consult the factory.

1250T5 SYSTEMS

STRAIGHT SECTIONS

PRODUCT DESCRIPTION

Track Busway straight sections consist 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 protective earth. 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% Protective Earth
1250 Amps
415 Volt

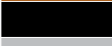
LENGTH

1.5 m, Max 3 m or custom lengths between .6 - 3 m

WEIGHT

3 m 4 pole w/ ground: 95 kg (Hybrid)

GLOBAL/METRIC

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

1250T5 SYSTEMS

STRAIGHT SECTIONS: PRODUCT NUMBERS

M	S	1K2	T5	H	4	S	-	M100	C
1. System	2. Product Type	3. Product Frame	4. Compatibility	5. Material	6. Neutral/ Ground Busbar	7. Polarization		8. Straight Length	9. Busway Access
							-	STD	0
								10. Paint Color	11. Tape Marking

1. System (standard of measure)

M Metric

2. Product Type (section component)

S Straight Section

3. Product Frame (maximum amperage)

1K2 1250 amps

4. Compatibility (frame compatibility)

T5 T5 Series **K5** T5 Series (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)

MXYY X = meters, YY = centimeters

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

MS1K2T5H4S-M100C-STD0 = Metric System, Straight Section, 1250 amps, T5 Series, Hybrid, 3 Phase plus Neutral, Standard Polarization, 1 meter Straight Length, Continuous Busway Access, Painted Factory Silver, No Tape Marking

MS1K2K5HGS-M200C-P010 = Metric System, Straight Section, 1250 amps, T5 Series K5 (Limiting Strip), Hybrid, 3 Phase plus Neutral plus Internal Ground Connector, Standard Polarization, 2 meter Straight Length, Continuous Busway Access, Painted RAL 1001, No Tape Marking

1250T5 SYSTEMS

ELBOW SECTIONS

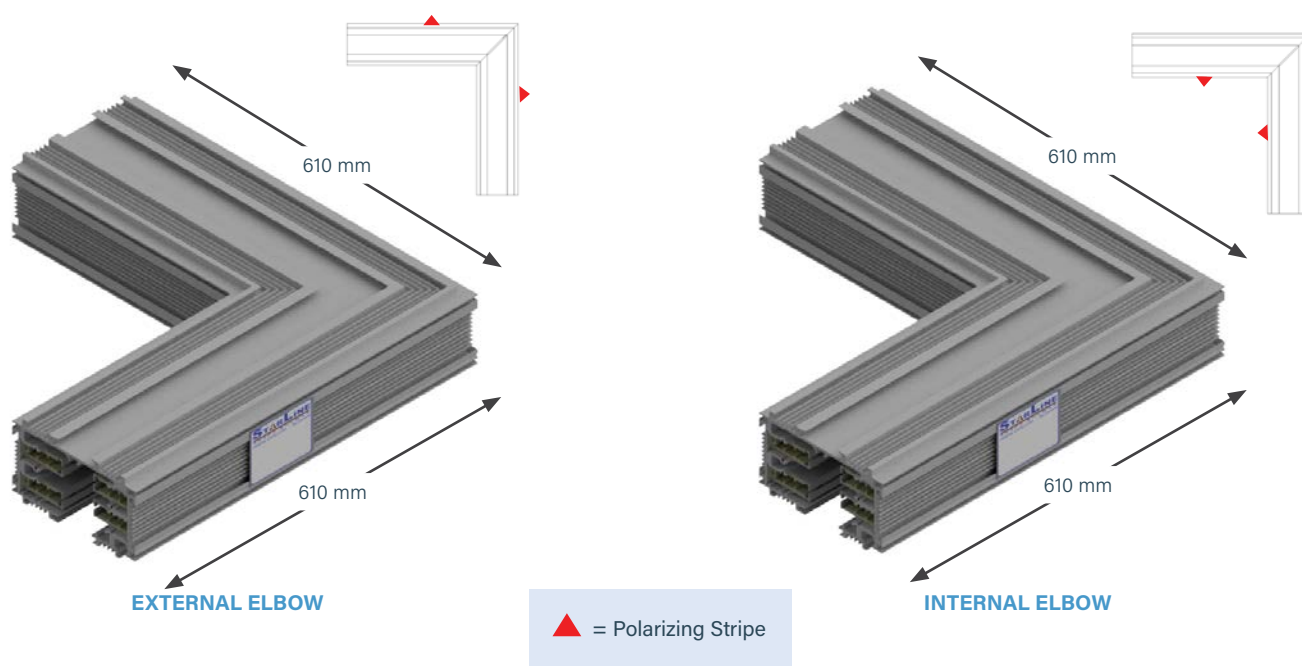
■ PRODUCT DESCRIPTION

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.

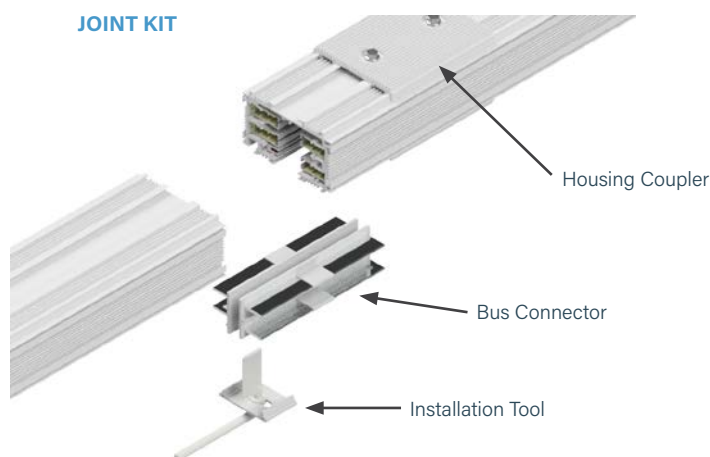
Connection Accessories

A joint kit is used to make mechanical and electrical connections to adjacent busway sections (*ordered separately*).

Weight 35 kg



JOINT KIT



1250T5 SYSTEMS

ELBOW SECTIONS: PRODUCT NUMBERS

M	E	1K2	T5	H	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)

M Metric

2. Product Type (section component)

E Elbow Section

3. Product Frame (maximum amperage)

1K2 1250 amps

4. Compatibility (frame compatibility)

T5 T5 Series **K5** T5 Series (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

ME1K2K5H4S-IN-BLU0 = Metric System, Elbow Section, 1250 amps, T5 Series K5 (Limiting Strip), Hybrid, 3 Phase plus Neutral, Standard Polarization, Internal Turning Direction, Painted Factory Blue, No Tape Marking

ME1K2T5HGS-EX-STD0 = Metric System, Elbow Section, 1250 amps, T5 Series, Hybrid, 3 Phase plus Neutral plus Internal Ground Conductor, Standard Polarization, External Turning Direction, Painted Factory Silver, No Tape Marking

1250T5 SYSTEMS

END FEED UNITS

PRODUCT DESCRIPTION

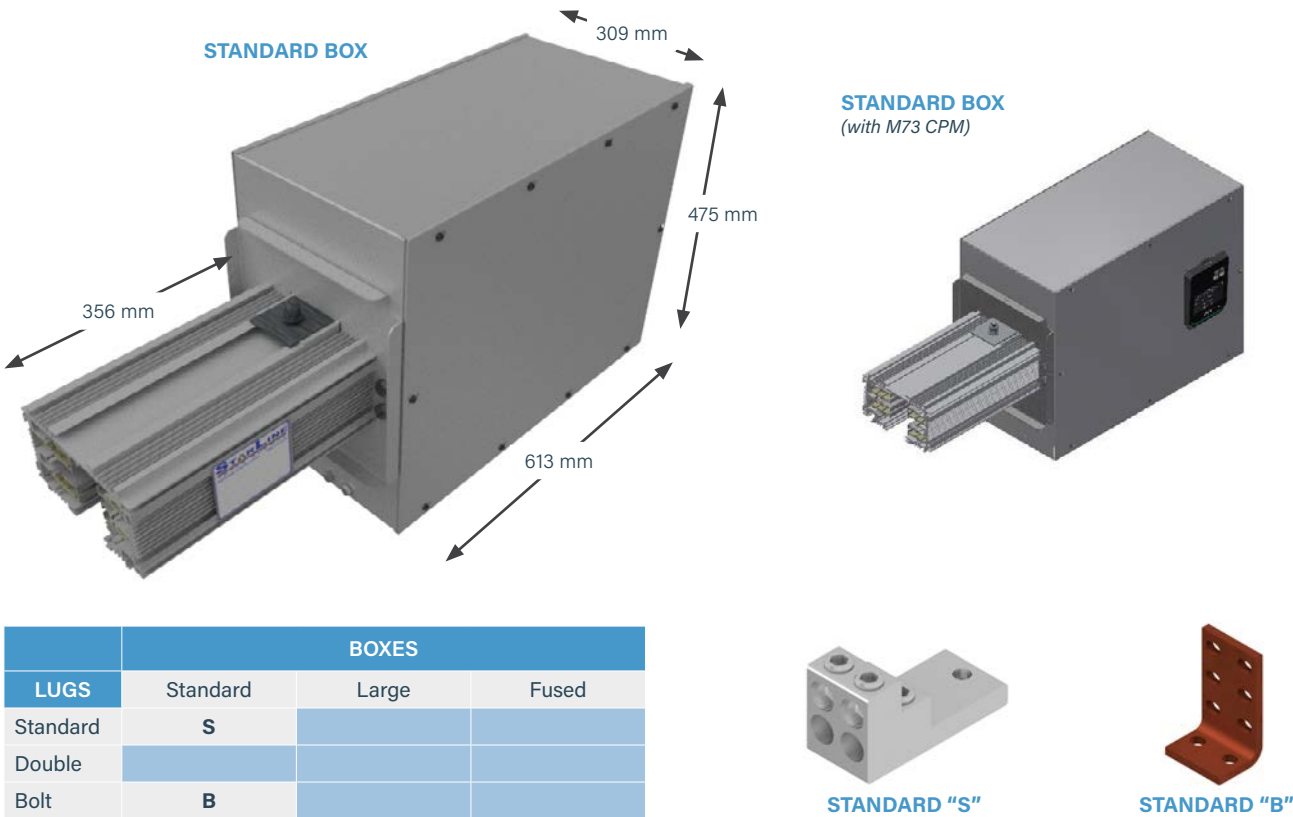
Standard end power feed units connect to the end of the Busway. Factory assembled unit consists of a 470 x 610 x 305 millimeter steel junction box, with removable side, connected to an 0.3 meter section of busway. The assembly includes ground lugs for wires up to 185mm² and connection lugs that can handle up to (2) 300mm² wires (CU) or (2) 300 mm² 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 three 101.6 millimeter 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 45.6 kg (34.5 kg without busway stub)



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.

*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

1250T5 SYSTEMS

END FEED UNITS: METERING

■ PRODUCT DESCRIPTION

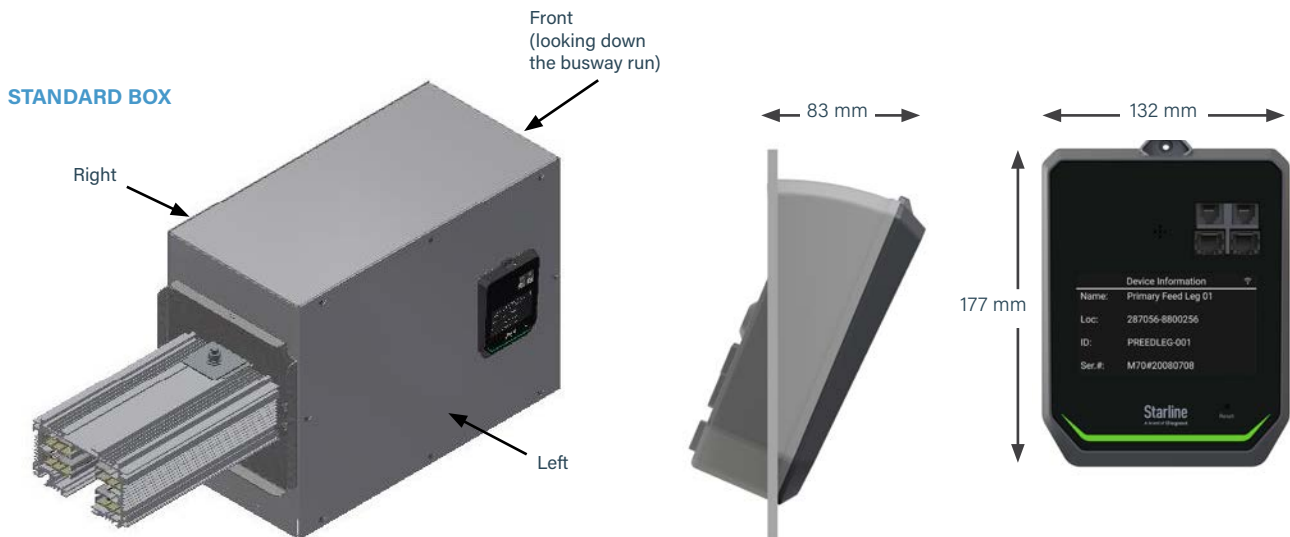
End feed units can be populated with Starline's Critical Power Monitor to provide access to revenue-grade, three-phase power data. The M70 CPM is built with a 109 mm LCD touchscreen display that can be angled down for easier viewing from the floor.

Wired ethernet and serial communications are standard with (2) RJ11 and (2) RJ45 jacks built in for easy daisy chaining. Optional 802.11n Wi-Fi connectivity is also available. Both serial Modbus and Ethernet-based protocols can be used simultaneously. These include: SNMP (v1, v2 & v3), Modbus RTU and TCP/IP, BACnet, HTTPS, and SSH.

Firmware communication options (IPV4, IPV6, DHCP, WPA2) are pre-packaged into the meter build. While these options are selected and then enabled during factory assembly, they can be re-configured at any time in the field. The M70 CPM is compatible with all major DCIM and BMS packages.

The M70 CPM can also be complemented with end feed accessories, such as real-time lug temperature monitoring, IR window scanning and audible alarms. Unlike firmware options, these hardware features are not field changeable.

The M70 is available in 110-500vac, 48vdc and 380vdc versions.



*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**).

1250T5 SYSTEMS

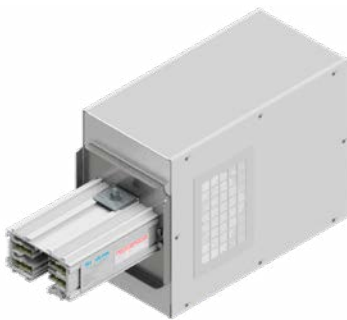
END FEED UNITS: ACCESSORIES

IR WINDOWS

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

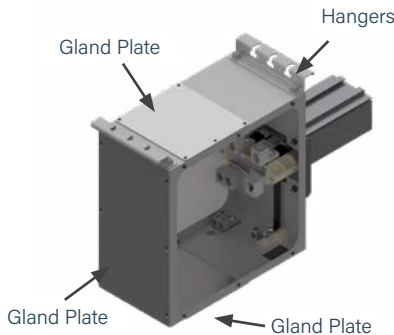
When paired with Starline's monitoring and service solutions, a complete and effective maintenance program can be developed that further reduces downtime lowers total cost of ownership, and provides increased safety for the end-user.

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



END FEED HANGERS & GLAND PLATES

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



FEATURES & BENEFITS

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

GENERAL SPECIFICATIONS

Viewing Material	IR transmissive polymer, UL 94B HB Rated
Structural Mesh Material	Stainless Steel 304
Body Material	Powder Coated Steel or Aluminum (matched to busway or plug-in unit color)
Ingress Protection	IP3x (T5); IP54 (S5)
Max Operating Temperature	125°C

WINDOW DIMENSIONS

End Feeds: 400A and Below	5" (127mm) x 7" (178mm)
End Feeds: 630A and Above	8" (203mm) x 12" (305mm)

(Refer to option 17, M70 Options on [page 4.79](#) End Feed Metering: Product Numbers)

(Refer to option 10, Accessories Package on [page 4.78](#) End Feed Units: Product Numbers)

END FEED UNITS: PRODUCT NUMBERS

M	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
- M035 C - STD 0 - M73 00 1 <i>*Optional</i>											
		12. Straight Length	13. Busway Access	14. Paint Color	15. Tape Marking	*16. Meter Release		*17. Meter Options	*18. System Config. and CT Type		

1. System <i>(standard of material)</i> M Metric		10. Accessories Package <i>(optional accessories for feed units)</i> S Standard C IR Window - Circular F End Feed Hanger & Gland Plates U Starline Rect. IR window, 8" (203mm) x 12" (305mm) B (C+F) P (U+F)	
2. Product Type <i>(section component)</i> F End Feed		11. Accessories Location <i>(from the terminal, side with accessory)</i> N None (N/A) R Right L Left F Front (consult the factory)	
3. Product Frame <i>(maximum amperage)</i> 1K2 1250 amps		12. Straight Length <i>(length of section)</i> M035 .35 meters	
4. Compatibility <i>(frame compatibility)</i> T5 T5 Series K5 T5 Series (Limiting Strip)		13. Busway Access C Continuous	
5. Material <i>(busbar material)</i> H Hybrid (Cu/Al)		14. Paint Color <i>(allows painting of the busway housing)</i> STD Paint Factory Silver RED Paint Factory Red BLK Paint Factory Black BLU Paint Factory Blue WHT Paint Factory White **RAL <i>(please see page 4.80)</i>	
6. Neutral/Ground Busbar <i>(size of neutral busbar and/or ground)</i> 4 3 Phase plus Neutral G 3 Phase plus Neutral plus Internal Ground Conductor		15. Tape Marking <i>(colored tape on both sides of busway housing)</i> O None	
7. Polarization <i>(orientation of section for mating purposes)</i> S Standard R Reversed			
8. Lug/Box Options <i>(standard/double/bolt lugs and box size)</i> S Standard lugs, Standard box B Bolt lugs, Standard box			
9. Meter Location <i>(from the terminal, side with removable lid)</i> R Right L Left N None (N/A)			

MF1K2T5H4R-SRUL-M035C-BLK0 = Metric System, End Feed, 1250 amps, T5 Series, Hybrid, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Right Meter Location, Rectangular IR window, Left Accessory Location, .35 meter Straight Length, Continuous Busway Access, Painted Factory Black, No Tape Marking

1250T5 SYSTEMS

END FEED METERING: PRODUCT NUMBERS

M	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	
– M035 C – STD 0 – M73 00 1 <i>*Optional</i>											
		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 (M70 AC)

- M73** (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi

*16. Meter Release (M70 DC)

- M7C** (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*18. System Configuration and CT Type (M70 AC)

- 2** Δ, Solid CTs, 5A-secondary, No Measured Neutral
4 Δ, Split CTs, 5A-secondary, No Measured Neutral
6 Y, Solid CTs, 5A-secondary, No Measured Neutral
8 Y, Split CTs, 5A-secondary, No Measured Neutral
A Y, Solid CTs, 5A-secondary, Measured Neutral
C Y, Split CTs, 5A-secondary, Measured Neutral

*17. Meter Options (M70 AC and DC)

- 0A** IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP
00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm
1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP
3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP
AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP



M73
 (2) RJ11, (2) RJ45,
 Lg. Display



M76
 Wi-Fi + (2) RJ11,
 (2) RJ45, Lg. Display

EXAMPLE

MF1K2T5H4R-SRUL-0102C-BLK0-M73001 = Metric System, End Feed, 1250 amps, T5 Series, Hybrid, 3 Phase plus Neutral, Reversed Polarization, Standard Lugs, Standard Box, Right Meter Location, Rectangular IR window, Left Accessory Location, .35 meter Straight Length, Continuous Busway Access, Painted FactoryBlack, No Tape Marking, M73 Meter with Display, Standard Features, Delta, Solid CTs, Millivolt, No Measured Neutral

T5 SERIES

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

T5 SERIES

ACCESSORIES: SUPPORT HARDWARE

■ THREADED ROD

For mounting to M12 threaded rod. Twist-in design. Can be inserted anywhere along the top full-access slot of busway. Maximum hanger support spacing is every 3 meters.

Part Number
 250, 400, 630 & 800 amp systems only:
 MBRHT5-M12
 Available in plain zinc
 or black (-BLK)
Weight
 .14 kg



■ SEISMIC THREADED ROD

For mounting to M12 threaded rod. Can be inserted anywhere along the top full access slot of busway, and includes a seismic brace. Hanger support is required every 3 meters maximum on every section of busway.

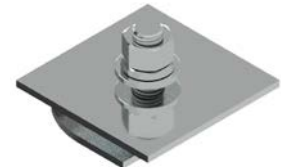
Part Number
 250, 400 & 630 amp systems only:
 MBRHT5-M12-3
 Available in plain zinc
 or black (-BLK)
Weight
 .14 kg



■ 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 3 meters maximum.

Part Number
 250, 400, 630 & 800 amp systems only:
 MBHT5-M12
 Available in plain zinc
 or black (-BLK)
Weight
 .09 kg



■ STANDARD ONE-PIECE, SLOTTED

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 3 meters maximum.

Part Number
 (Available for all systems,
 required for 1000 & 1250):
 MBSHT5-4
 Available in plain zinc
 or black (-BLK)
Weight
 .09 kg



■ WALL MOUNT BRACKET

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

Part Number
 WMBT5-9



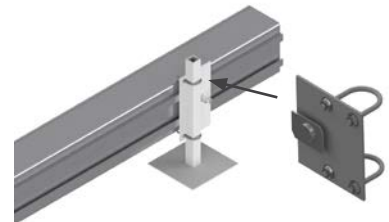
T5 SERIES

ACCESSORIES: SUPPORT HARDWARE

■ RAISED MOUNTING BRACKET

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

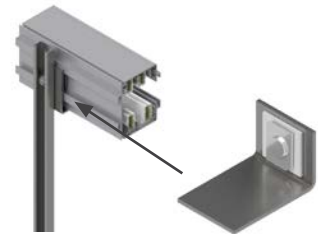
Part Number
250, 400, 630 & 800 amp
systems only:
MRFBT5-2
Available in plain zinc
or black (-BLK)
Weight
.09 kg



■ SIDE MOUNT BRACKETS

Mounted to vertical supports.

Part Number
250, 400, 630 & 800 amp
systems only:
MBSST5-12
Available in plain zinc
or black (-BLK)
Weight
.09 kg



■ RECESSED SUSPENDED CEILINGS

For hanging busway into a recessed ceiling.

**Hanger bolt must be ordered separately*

Part Numbers
(for 250 amp global & metric systems):
GRM250T5-1 MRM250T5-1

(for 400 amp global & metric systems):
GRM400T5-1 MRM400T5-1

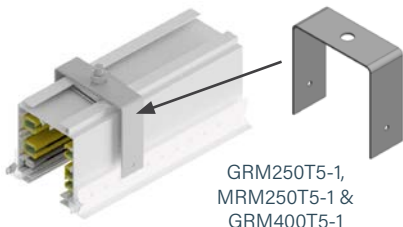
(for 630 amp global & metric systems):
GRM630T5-1 MRM630T5-1

(for 800 amp systems):
SRM800T5-1

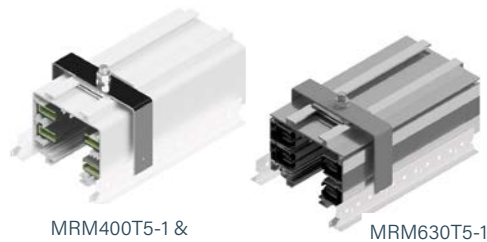
(for 1000 amp systems):
GRM1K025-1 MRM1K025-1

(for 1250 amp systems):
SRM1K2T5-1

Available in plain zinc
or black (-BLK)

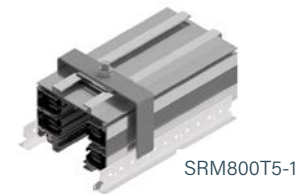


GRM250T5-1,
MRM250T5-1 &
GRM400T5-1

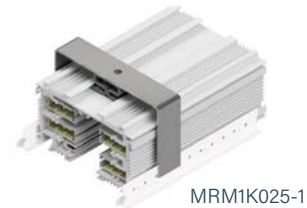


MRM400T5-1 &
GRM630T5-1

MRM630T5-1



SRM800T5-1



MRM1K025-1



SRM1K2T5-1

T5 SERIES

ACCESSORIES: SUPPORT HARDWARE

■ PRODUCT DESCRIPTION

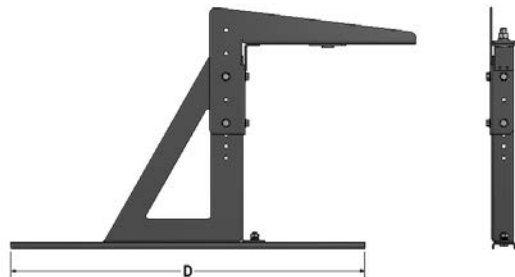
UNIVERSAL SERVER CABINET MOUNTING BRACKETS

The universal server cabinet mounting brackets are designed with generous 9.5 millimeter 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 630, 800, 1000 or 1250 amp busway.

Hanger Bolt Included – MBHT5-1



MATERIAL

Galvanneal Steel

HEIGHT

449 mm Min
603 mm Max
Maximum Spacing: Every 3 m per run

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

1 Anodized Silver **6** Red
3 Black **7** Blue
4 White

**consult factory for custom colors*

Part Number

Metric: MUSCMB-(X)-(D)-(C)

X = System (T5)

D = Depth (762mm, 914 mm, 1067 mm, 1219 mm or custom length)

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

■ EXAMPLES

MUSCMB-T5-1219-7 = Metric System, Universal Server Cabinet Mounting Bracket-T5 Series-1219 millimeter Depth, Blue

MUSCMB-T5-914-1 = Metric System, Universal Server Cabinet Mounting Bracket-T5 Series-914 millimeter Depth, Anodized Silver

T5 SERIES

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*

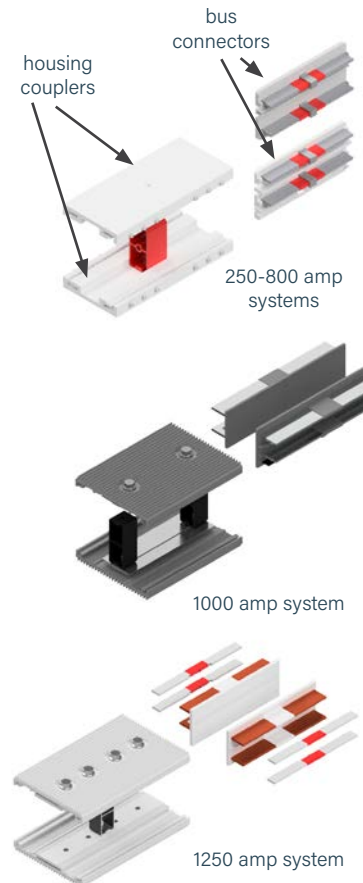
Part Numbers	
<i>(for 250 amp global & metric systems):</i>	
GJK250T5-1	MJK250T5-1
GJK250T5G-1	MJK250T5G-1
GJK250T5N-1	MJK250T5N-1
GJK250T5F-1	MJK250T5F-1

<i>(for 400 & 630 amp global & metric systems)</i>	
GJK400T5-1	MJK400T5
GJK400T5G-1	MJK400T5G-1
GJK400T5N-1	MJK400T5N-1
GJK400T5F-1	MJK400T5F-1
GJK630T5-2	
GJK630T5G-2	

**G = copper, M = hybrid*
(for 800 amp systems)
MJK800T5-2
MJK800T5G-2

<i>(for 1000 amp systems)</i>	
GJK1K0T5-1	MJK1K0T5-1
GJK1K0T5G-1	MJK1K0T5G-1

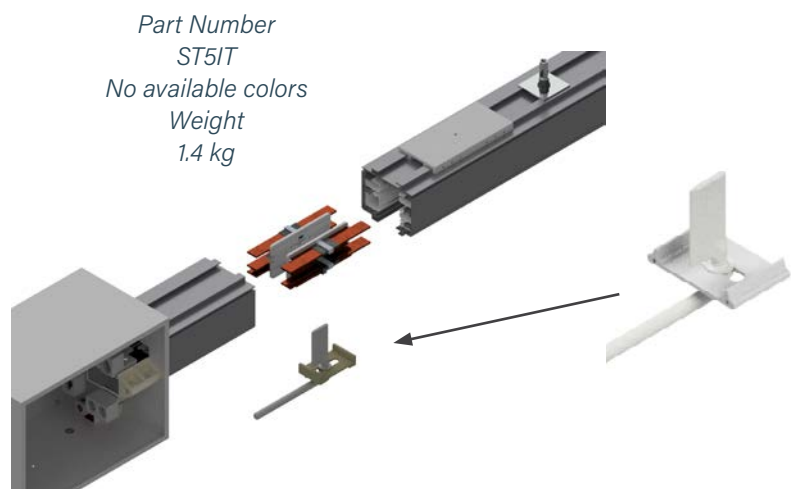
(for 1250 amp systems)
MJK1K2T5-1
MJK1K2T5G-1



■ INSTALLATION TOOL

An installation tool is used to install the bus connector between two adjacent sections of busway.

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.

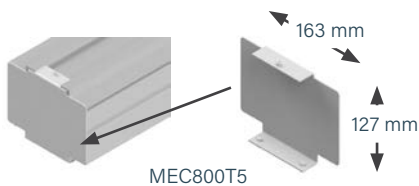
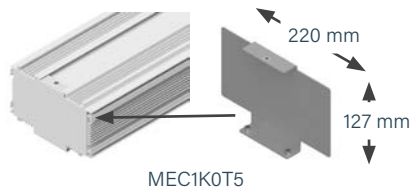
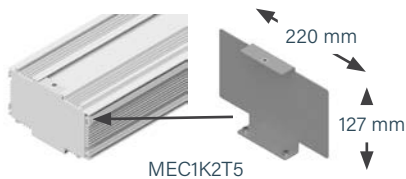


T5 SERIES

ACCESSORIES: CONNECTION HARDWARE

■ END CAP

For covering the end of T5 busway systems.



Part Numbers
(for 250 amp global & metric systems):
GEC250T5 MEC250T5

(for 400 amp global & metric systems):
GEC400T5 MEC400T5

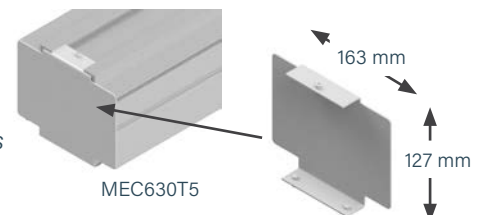
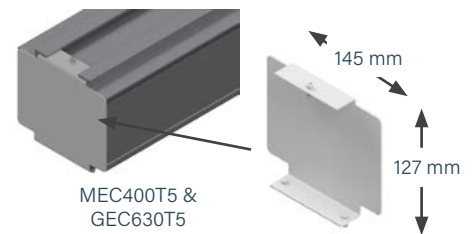
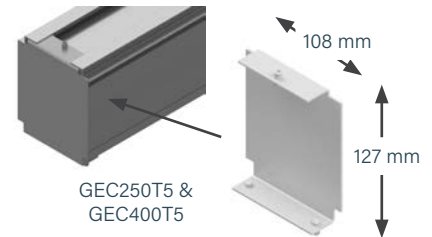
(for 630 amp global & metric systems):
GEC630T5

(for 800 amp systems):
MEC800T5

(for 1000 amp global & metric systems):
GEC1K0T5 MEC1K0T5

(for 1250 amp systems):
MEC1K2T5

Available in all standard and RAL colors
Weight: .18 kg



■ OPTIONAL CLOSURE STRIP

The closure strip snaps into the bottom access slot of T5 housing to close off access to power around the installed plugin units. It is normally shipped in 2.9 meter sections.

The closure strip is offered in both nonconductive plastic material and aluminum for 250, 400, 630 & 800 amp systems. It is only available in plastic for the 1000 & 1250 amp systems.

The aluminum closure strip affixes with an adhesive backing to the access slot of T5 housing.

Part Numbers
(for 250, 400, 630 & 800 amp systems):
SCST5-1

Aluminum closure strip:
SCST5-1-AL

(for 1000 & 1250 amp systems):
SCST5-2

-Plastic Closure Strip available in black
& white

-Aluminum Closure Strip available in all
standard colors



T5 SERIES

ADD-ON ACCESSORIES: DATA CHANNEL

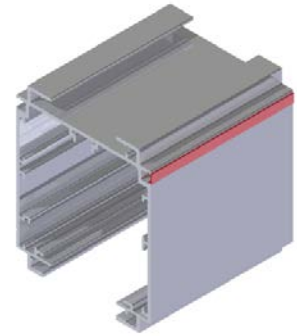
■ DATA CHANNEL COVER

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 3 meters.

Please contact sales to order the quantity needed.

Part Number
MDCCT5-3-SIL (silver)
MDCCT5-3-BLK (black)
MDCCT5-3-GRN (green)
MDCCT5-3-YEL (yellow)
MDCCT5-3-W (white)
MDCCT5-3-RED (red)
MDCCT5-3-BLU (blue)



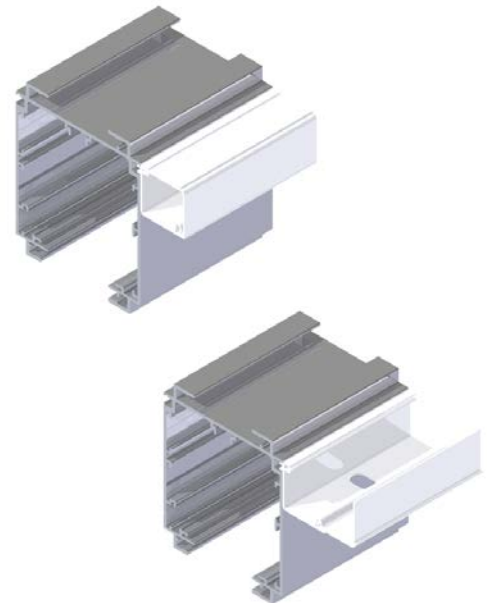
■ HINGED WIRE WAY

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 150 millimeter provide built-in accessibility for cable drops.

The hinged wire way is available in lengths up to 3 meters.

Please contact sales to order the quantity and length needed.

Part Number
MHWWT5-3
Available in gray only



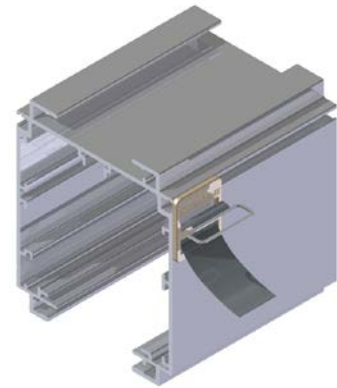
T5 SERIES

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 305 millimeter 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.

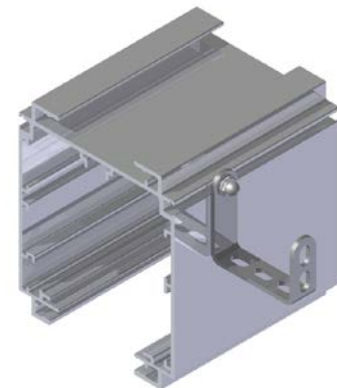
*Part Number
SVCST5-12
Available in gray, with a black
colored strap only*



■ 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 6.5 millimeter slotted holes throughout to allow for the attachment of a wide variety of accessories. Each bracket is capable of supporting a load of 12 kg. 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)*



T5 SERIES

SERVICES

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

WE ARE CURRENTLY OFFERING THE FOLLOWING SERVICES:

COMMISSIONING AND EQUIPMENT RENTALS

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

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

METER SERVICES

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

STARTUP AND SYSTEM CERTIFICATION

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

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

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

TURNKEY INSTALLATION SERVICES

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

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

T5 SERIES

SERVICES

PREVENTATIVE MAINTENANCE PLANS AND IR SCANNING

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

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

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

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

ON-SITE INSTALLATION SUPPORT

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

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

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

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

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

T5 SERIES

SERVICES

ON-SITE PRODUCT TRAINING

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

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

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

RECERTIFICATION AND EXTENDED WARRANTY PLANS

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

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

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

T5 PLUG-IN UNITS

T5 PLUG-IN UNITS

■ METER PLUG UNITS

Any T5 compatible Starline Plug-In Unit that contains only a meter.



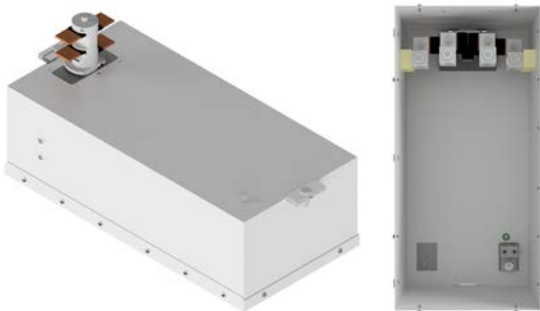
■ METER BOX UNITS

Any lone box (without paddle head) that includes a meter.



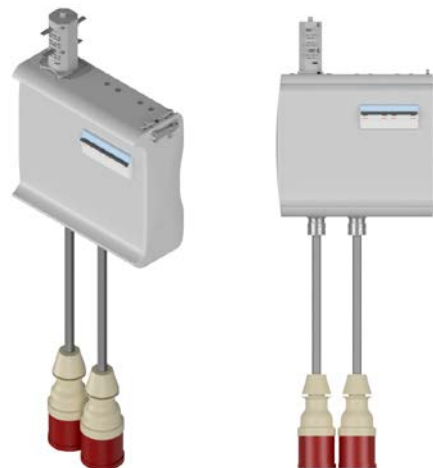
■ TERMINAL BLOCK UNITS

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.



T5 PLUG-IN UNITS

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.

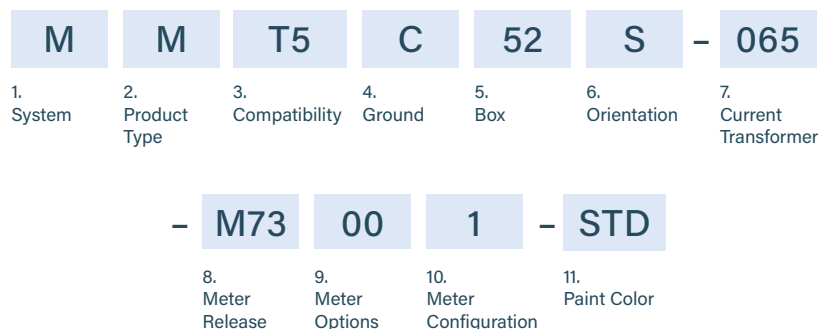
WHEN BUILDING SYSTEMS

1. What is the amperage needed for the system? (250, 400, 630, etc.)
2. Does the system need an internal ground?
3. Are there any limitations on the length of a run? (1.5 m, 3m, 6 meter 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



1. System (<i>standard of measure</i>)	
M	Metric
2. Product Type (<i>section component</i>)	
M	Meter Plug
3. Compatibility (<i>frame compatibility</i>)	
T5	T5 System
R5	T5 System (Rotating Paddle)
K5	T5 System (Limiting Strip)
Z5	K5 + R5
4. Ground (<i>ground type installed</i>)	
C	Case (Housing) Ground
5. Box (<i>what size enclosure</i>)	
01, 02, ... 99 (refer to enclosure reference page 4.109)	
6. Orientation (<i>what direction the paddle faces</i>)	
S	Standard
R	Reversed
7. Current Transformer (<i>current rating</i>)	
065	65 amps
250	250 amps
800	800 amps
1K2	1200 amps
225	225 amps
400	400 amps
1K0	1000 amps
8. Meter Release (<i>M70 AC</i>)	
M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac	
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi	
8. Meter Release (<i>M70 DC</i>)	
M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc	
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi	
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc	
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi	
9. Meter Options (<i>M70 AC and DC</i>)	
0A IPV6	
0B DHCP	
0C WPA2E	
0E IPV6 + DHCP	
0F IPV6 + WPA2E	
0J DHCP + WPA2E	
0H IPV6 + WPA2E + DHCP	
00 Standard Features (IPV4 + No Accessories)	
10 Lug Temp	
30 Audible Alarm	
A0 Lug Temp + Audible Alarm	
<i>continues...</i>	
9. Meter Options (<i>M70 AC and DC</i>) ...continued	
1A Lug Temp + IPV6	
1B Lug Temp + DHCP	
1C Lug Temp + WPA2E	
1E Lug Temp + IPV6 + DHCP	
1F Lug Temp + IPV6 + WPA2E	
1J Lug Temp + DHCP + WPA2E	
1H Lug Temp + IPV6 + WPA2E + DHCP	
3A Audible Alarm + IPV6	
3B Audible Alarm + DHCP	
3C Audible Alarm + WPA2E	
3E Audible Alarm + IPV6 + DHCP	
3F Audible Alarm + IPV6 + WPA2E	
3J Audible Alarm + DHCP + WPA2E	
3H Audible Alarm + IPV6 + WPA2E + DHCP	
AA Lug Temp + Audible Alarm + IPV6	
AB Lug Temp + Audible Alarm + DHCP	
AC Lug Temp + Audible Alarm + WPA2E	
AE Lug Temp + Audible Alarm + IPV6 + DHCP	
AF Lug Temp + Audible Alarm + IPV6 + WPA2E	
AJ Lug Temp + Audible Alarm + DHCP + WPA2E	
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP	
10. Meter Configuration (<i>M70 AC</i>)	
1 Δ, Solid CTs, Millivolt, No Measured Neutral	
4 Δ, Split CTs, 5A-secondary, No Measured Neutral	
5 Y, Solid CTs, Millivolt, No Measured Neutral	
8 Y, Split CTs, 5A-secondary, No Measured Neutral	
9 Y, Solid CTs, Millivolt, Measured Neutral	
C Y, Split CTs, 5A-secondary, Measure Neutral	
10. Meter Configuration (<i>M70 DC</i>)	
J DC Circuit 1, Solid CT	
K DC Circuit 2, Solid CT	
L DC Both Circuits, Solid CT	
11. Paint Color	
STD	Paint Factory Silver
BLK	Paint Factory Black
WHT	Paint Factory White
RED	Paint Factory Red
BLU	Paint Factory Blue
**RAL	(please see page 4.80)

METER BOXES: PRODUCT NUMBERS

M

B

NA

C

52

S

-

065

1. System

2. Product Type

3. Compatibility

4. Ground

5. Box

6. Orientation

7. Current Transformer

-

M73

00

1

-

STD

8. Meter Release

9. Meter Options

10. Meter Configuration

11. Paint Color

DESIGNED TO BE BETTER®

T5 PLUG-IN UNITS

TERMINAL BLOCK UNITS: PRODUCT NUMBERS

M	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	-	M73	00	1	-	STD <i>*Optional</i>
	9. Lug Options	10. Meter Location	11. Accessories	*12. Meter Release	*13. Meter Options	*14. Meter Configuration	15. Paint Color		

1. System (standard of measure)

M Metric

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 4.109**)

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 (number of poles in a circuit)

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 (M70 AC)

M73 (2) RJ11, (2) RJ45, Lg. Display, 480vac
M76 (2) RJ11, (2) RJ45, Lg. Display, 480vac + Wi-Fi
(continued)

*12. Meter Release (M70 DC)

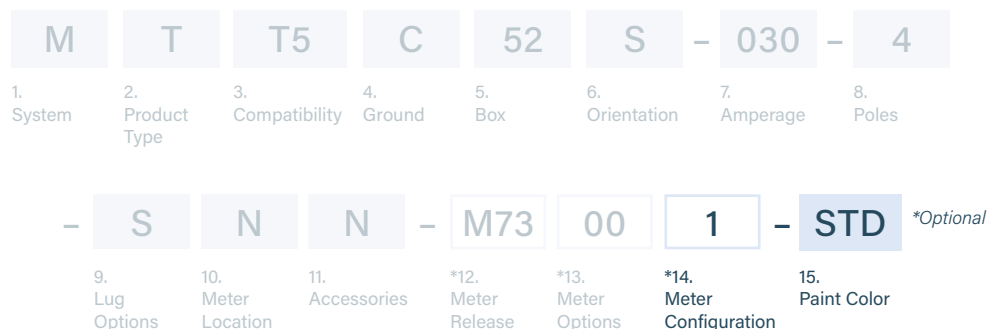
M7C (2) RJ11, (2) RJ45, Lg. Display, 48vdc
M7F (2) RJ11, (2) RJ45, Lg. Display, 48vdc + Wi-Fi
M7J (2) RJ11, (2) RJ45, Lg. Display, 400vdc
M7M (2) RJ11, (2) RJ45, Lg. Display, 400vdc + Wi-Fi

*13. Meter Options (M70 AC and DC)

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP
00 Standard Features (IPV4 + No Accessories)
10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm
1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP
3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP
AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

T5 PLUG-IN UNITS

TERMINAL BLOCK UNITS: PRODUCT NUMBERS



*14. Meter Configuration (M70 AC)

- 1** Δ, Solid CTs, Millivolt, No Measured Neutral
- 4** Δ, Split CTs, 5A-secondary, No Measured Neutral
- 5** Y, Solid CTs, Millivolt, No Measured Neutral
- 8** Y, Split CTs, 5A-secondary, No Measured Neutral
- 9** Y, Solid CTs, Millivolt, Measured Neutral
- C** Y, Split CTs, 5A-secondary, Measure Neutral

*14. Meter Configuration (M70 DC)

- J** DC Circuit 1, Solid CT
- K** DC Circuit 2, Solid CT
- L** DC Both Circuits, Solid CT

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) |

T5 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: PRODUCT NUMBERS

M	C	T5	C	52	S	-	14	AA	-	1	AA	-
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Protection Code	9. Device Quantity (1)	10. Device Code (1)			
1	AA	F	10	N	-	V71	00	-	STD	0	<i>*Optional</i>	
11. Device Quantity (2)	12. Device Code (2)	13. Mount Location	*14. Drop Cord Length	15. Accessories	*16. Meter Release	*17. Meter Options	18. Paint Color	*19. Drop Cord Tape Marking				

1. System (standard of measure)

M Metric

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 4.109**)

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

8. Protection Code

AA, AB, ... ZZ (refer to protection code table **page 4.115**)

9. Device Quantity (quantity of device 1)

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

10. Device Code (for device 1)

AA, AB, ... ZZ (refer to device code table **page 4.114**)

11. Device Quantity (quantity of device 2)

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

12. Device Code (for device 2)

AA, AB, ... ZZ (refer to device code table **page 4.114**)

13. Mount Location (with respect to busway polarizing strip)

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

*14. Drop Cord Length (in increments of 0.1 metre)

XY: 02 = 0.2 m, 03 = 0.3 m, 04 = 0.4m... 10 = 1m...60 = 6m

15. Accessories (in increments of 0.1 metre)

N N/A **F** Finger Shroud
C Circuit Breaker Interlock **P** Padlock Adapter
S Seismic Hanger **R** IR Window
L Pilot Light **A** Auxiliary
T NETA Tested Breakers **B** F + L

*16. Meter Release (V70 AC)

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

*16. Meter Release (V70 DC)

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

*17. Meter Options (V70 AC and DC)

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP
00 Standard (IPV4 + No Accessories)
40 AC Supply Voltage Only – Breaker Sense (On/Off)
4A Breaker Sense + IPV6
4B Breaker Sense + DHCP
4C Breaker Sense + WPA2E
4E Breaker Sense + IPV6 + DHCP
4F Breaker Sense + IPV6 + WPA2E
4J Breaker Sense + DHCP + WPA2E
4H Breaker Sense + IPV6 + WPA2E + DHCP

18. 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)

*19. Drop Cord Tape Marking

3 Tape Factory Black **7** Tape Factory Blue
4 Tape Factory White **8** Tape Factory Green
6 Tape Factory Red **9** Tape Factory Yellow

T5 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: COMPATIBILITY

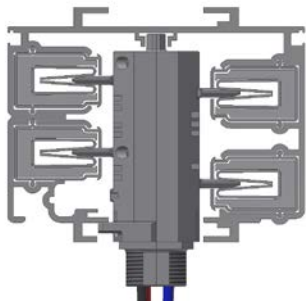
M	C	T5	C	52	S	-	14	AA	-	1	AA	-
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Protection Code	9. Device Quantity (1)	10. Device Code (1)			
1	AA	F	10	N	-	V71	00	-	STD	0	*Optional	
11. Device Quantity (2)	12. Device Code (2)	13. Mount Location	*14. Drop Cord Length	15. Accessories	*16. Meter Release	*17. Meter Options	18. Paint Color	*19. Drop Cord Tape Marking				

3. Compatibility (frame compatibility)

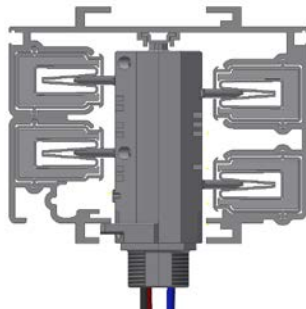
T5	T5 System	K5	T5 System (Limiting Strip)
R5	T5 Rotating Paddle	Z5	K5 + R5

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 which is required for compatibility with the Remote Plug-in Actuator.

T5



K5



T5 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: GROUND

M	C	T5	C	52	S	-	14	AA	-	1	AA	-
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Protection Code	9. Device Quantity (1)	10. Device Code (1)			
1	AA	F	10	N	-	V71	00	-	STD	0	*Optional	
11. Device Quantity (2)	12. Device Code (2)	13. Mount Location	*14. Drop Cord Length	15. Accessories	*16. Meter Release	*17. Meter Options	18. Paint Color	*19. Drop Cord Tape Marking				

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.

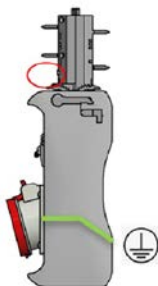
Parts affected by grounding are the plug paddle (ground paddles have a fifth stab).

■ CASE GROUND/CHASSIS EARTH

Uses aluminum housing and no extra copper bar.

C

Case/Chassis Earth
Earthing achieved through the chassis, the earth tab on top of the tapoff will make the connection



■ ISOLATED GROUND/EARTH

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

G

Isolated Earth
Separated receptacle/output "CLEAN earth" (FE) via isolated earth connector (marked in red) and chassis earth (PE) via earth tab (see chassis)

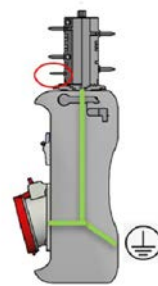


■ DEDICATED GROUND/EARTH

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

D

Dedicated Ground/Earth
In addition to the isolated earth connection on the paddle head, the receptacle output earth will also connect to the chassis



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

T5 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: BOX

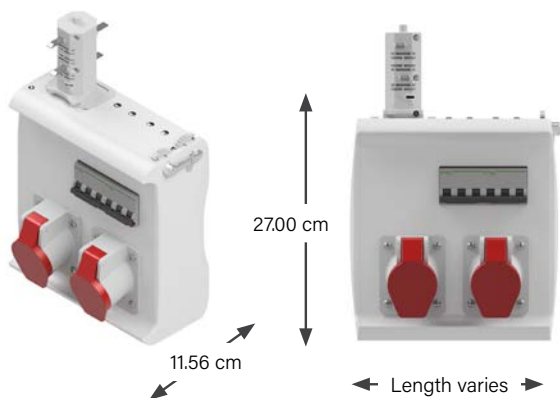
M	C	T5	C	52	S	-	14	AA	-	1	AA	-
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Protection Code	9. Device Quantity (1)	10. Device Code (1)			
1	AA	F	10	N	-	V71	00	-	STD	0	*Optional	
11. Device Quantity (2)	12. Device Code (2)	13. Mount Location	*14. Drop Cord Length	15. Accessories	*16. Meter Release	*17. Meter Options	18. Paint Color	*19. Drop Cord Tape Marking				

5. Box (what size enclosure)

01, 02, ... 99 (refer to enclosure reference **page 4.109**)

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:

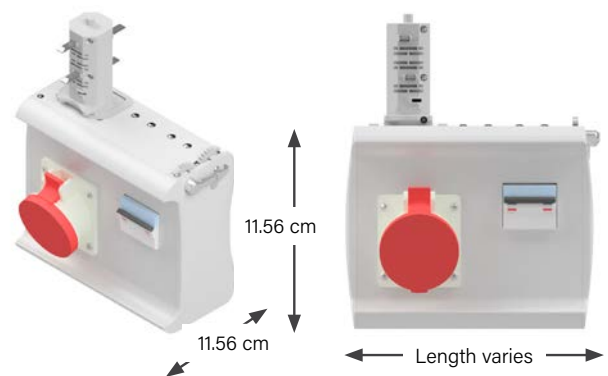
50 SERIES



BOX LENGTHS

51:	15.25 cm
52:	20.32 cm
53:	25.4 cm
54:	30.48 cm
55:	33.02 cm
56:	38.10 cm
57:	45.72 cm

90 SERIES



BOX LENGTHS

91:	15.25 cm
92:	20.32 cm
93:	25.4 cm
94:	30.48 cm
95:	33.02 cm
96:	38.10 cm
97:	45.72 cm

*For all box sizes and styles, please refer to page **4.109**

T5 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: INTERRUPT RATING

M	C	T5	C	52	S	-	14	AA	-	1	AA	-
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation		7. Interrupt Rating	8. Protection Code		9. Device Quantity (1)	10. Device Code (1)	
1	AA	F	10	N	-	V71	00	-	STD	0	*Optional	
11. Device Quantity (2)	12. Device Code (2)	13. Mount Location	*14. Drop Cord Length	15. Accessories		*16. Meter Release	*17. Meter Options		18. Paint Color	*19. Drop Cord Tape Marking		

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.



T5 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: DEVICE

M	C	T5	C	52	S	-	14	AA	-	1	AA	-
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Protection Code	9. Device Quantity (1)	10. Device Code (1)			
1	AA	F	10	N	-	V71	00	-	STD	0	*Optional	
11. Device Quantity (2)	12. Device Code (2)	13. Mount Location	*14. Drop Cord Length	15. Accessories	*16. Meter Release	*17. Meter Options	18. Paint Color	*19. Drop Cord Tape Marking				

9. Device (quantity of device 1)

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

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 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.



*For the full list of all device codes, please refer to **page 4.114**

T5 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: MOUNT LOCATION

M	C	T5	C	52	S	-	14	AA	-	1	AA	-
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Protection Code	9. Device Quantity (1)	10. Device Code (1)			
1	AA	F	10	N	-	V71	00	-	STD	0	*Optional	
11. Device Quantity (2)	12. Device Code (2)	13. Mount Location	*14. Drop Cord Length	15. Accessories	*16. Meter Release	*17. Meter Options	18. Paint Color	*19. Drop Cord Tape Marking				

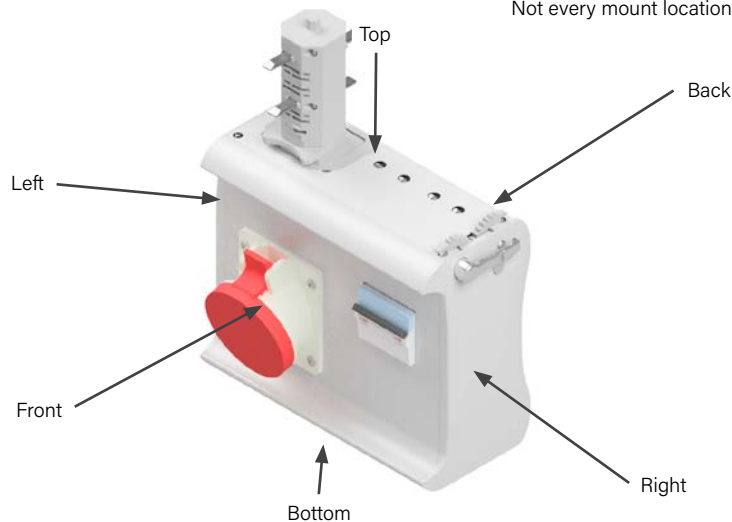
13. Mount Location *(with respect to busway polarizing strip)*

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

IN OPTION 13. 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.



T5 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: ACCESSORIES

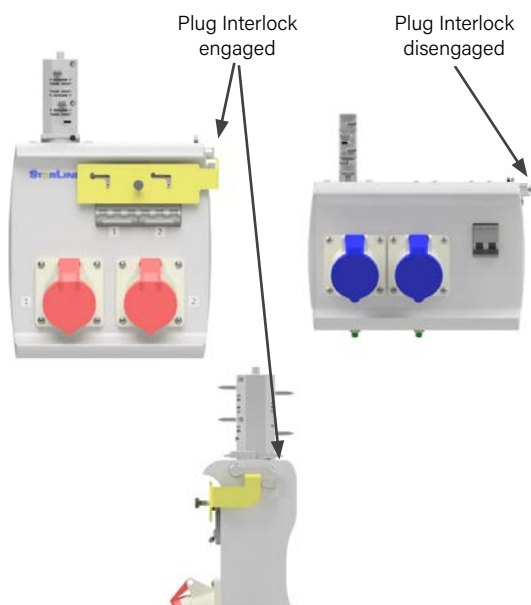
M	C	T5	C	52	S	-	14	AA	-	1	AA	-
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Protection Code	9. Device Quantity (1)	10. Device Code (1)			
1	AA	F	10	N	-	V71	00	-	STD	0	*Optional	
11. Device Quantity (2)	12. Device Code (2)	13. Mount Location	*14. Drop Cord Length	15. Accessories	*16. Meter Release	*17. Meter Options	18. Paint Color	*19. Drop Cord Tape Marking				

15. Accessories (in increments of 0.1 metre)

N	N/A	F	Finger Shroud
C	Circuit Breaker Interlock	P	Padlock Adapter
S	Seismic Hanger	R	IR Window
L	Pilot Light	A	Auxiliary
T	NETA Tested Breakers	B	F + L

IN OPTION 15. you have the option to choose an accessory: The Circuit Breaker prevents disengaging the plug from the busway while the breaker is in the "on" position. The Finger Shroud prevents accidental on or off contact with the breaker toggle. The Padlock Adapter provides optional protection for locking out breakers. NETA injection testing certifies the breakers will operate as specified in their trip logic. Pilot Light: When breaker is on, pilot light will be illuminated green. When the breaker off or tripped, the pilot light is off.

CIRCUIT BREAKER INTERLOCK



FINGER SHROUD



SEISMIC HANGER



PADLOCK ADAPTER FOR CIRCUIT BREAKER LOCK-OUT



IR WINDOW



T5 PLUG-IN UNITS

CIRCUIT BREAKER/FUSED DISCONNECT: METER RELEASE

M	C	T5	C	52	S	-	14	AA	-	1	AA	-
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Protection Code	9. Device Quantity (1)	10. Device Code (1)			
1	AA	F	10	N	-	V71	00	-	STD	0	*Optional	
11. Device Quantity (2)	12. Device Code (2)	13. Mount Location	*14. Drop Cord Length	15. Accessories	*16. Meter Release	*17. Meter Options	18. Paint Color	*19. Drop Cord Tape Marking				

*16. Meter Release (V70 AC)

- V71** (2) RJ11, (2) RJ45, No Display, 480vac
- V72** (2) RJ11, (2) RJ45, Display, 480vac
- V74** Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
- V75** Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

*16. Meter Release (V70 DC)

- V7A** (2) RJ11, (2) RJ45, No Display, 48vdc
- V7B** (2) RJ11, (2) RJ45, Display, 48vdc
- V7D** Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
- V7E** Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
- V7H** (2) RJ11, (2) RJ45, No Display, 400vdc
- V7I** (2) RJ11, (2) RJ45, Display, 400vdc
- V7K** Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
- V7L** Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

*17. Meter Options (V70 AC and DC)

- 0A** IPV6
- 0B** DHCP
- 0C** WPA2E
- 0E** IPV6 + DHCP
- 0F** IPV6 + WPA2E
- 0J** DHCP + WPA2E
- 0H** IPV6 + WPA2E + DHCP
- 00** Standard (IPV4 + No Accessories)
- 40** AC Supply Voltage Only – Breaker Sense (On/Off)
- 4A** Breaker Sense + IPV6
- 4B** Breaker Sense + DHCP
- 4C** Breaker Sense + WPA2E
- 4E** Breaker Sense + IPV6 + DHCP
- 4F** Breaker Sense + IPV6 + WPA2E
- 4J** Breaker Sense + DHCP + WPA2E
- 4H** Breaker Sense + IPV6 + WPA2E + DHCP

IN OPTION 16. V70 series meters are available for plug-in unit power monitoring.

Communications Interfaces include:

- (2) RJ11
- (2) RJ45 (Ethernet)
- Wireless (Optional)

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

Tap off units available with circuit breaker position sensing: on/off.



T5 PLUG-IN UNITS

CIRCUIT BREAKER UNITS, NO DEVICES: PRODUCT NUMBERS

M	C	T5	C	52	S	-	14	AA	-	2		
1. System	2. Product Type	3. Compatibility	4. Ground	5. Box	6. Orientation	7. Interrupt Rating	8. Protection Code	9. Circuit Protection Quantity				
32	3	415	10	5	N	-	V71	00	-	STD	0	*Optional
10. Amperage	11. Poles	12. Voltage	*13. Drop Cord Length	*14. Number of Wires	15. Accessories	*16. Meter Release	*17. Meter Options	18. Paint Color	*19. Drop Cord Tape Marking			

1. System (standard of measure)

M Metric

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 4.109**)

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)

8. Protection Code

AA, AB,ZZ (refer to enclosure reference **page 4.115**)

9. Circuit Protection Quantity

1, 2, 3, 4, 5, 6

10. Amperage

16, 32, 63, 125

11. Poles (number of poles in a circuit)

1, 2, 3, 4, 5

12. Voltage

415

*13. Drop Cord Length (in increments of 0.1 metre)

XY: 02 = 0.2 m, 03 = 0.3 m, 04 = 0.4m... 10 = 1m...60 = 6m

*14. Number of Wires (V70 AC)

2, 3, 4, 5

15. 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
T NETA Tested Breakers **A** Auxiliary
L Pilot Light **B** F + L

*16. Meter Release (V70 AC)

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

*16. Meter Release (V70 DC)

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

*17. Meter Options (V70 AC and DC)

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP
00 Standard (IPV4 + No Accessories)
40 AC Supply Voltage Only – Breaker Sense (On/Off)
4A Breaker Sense + IPV6
4B Breaker Sense + DHCP
4C Breaker Sense + WPA2E
4E Breaker Sense + IPV6 + DHCP
4F Breaker Sense + IPV6 + WPA2E
4J Breaker Sense + DHCP + WPA2E
4H Breaker Sense + IPV6 + WPA2E + DHCP

18. 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)

*19. Drop Cord Tape Marking

3 Black **6** Red **8** Green
4 White **7** Blue

T5 PLUG-IN UNITS

CORDED METERS



1. System (standard of measure)

M Metric

2. Product Type (section component)

CCPM Corded CPM

3. Meter Release (V70 AC)

V71 (2) RJ11, (2) RJ45, No Display, 480vac
V72 (2) RJ11, (2) RJ45, Display, 480vac
V74 Wi-Fi + (2) RJ11, (2) RJ45, No Display, 480vac
V75 Wi-Fi + (2) RJ11, (2) RJ45, Display, 480vac

3. Meter Release (V70 DC)

V7A (2) RJ11, (2) RJ45, No Display, 48vdc
V7B (2) RJ11, (2) RJ45, Display, 48vdc
V7D Wi-Fi + (2) RJ11, (2) RJ45, No Display, 48vdc
V7E Wi-Fi + (2) RJ11, (2) RJ45, Display, 48vdc
V7H (2) RJ11, (2) RJ45, No Display, 400vdc
V7I (2) RJ11, (2) RJ45, Display, 400vdc
V7K Wi-Fi + (2) RJ11, (2) RJ45, No Display, 400vdc
V7L Wi-Fi + (2) RJ11, (2) RJ45, Display, 400vdc

4. Meter Options

0A IPV6
0B DHCP
0C WPA2E
0E IPV6 + DHCP
0F IPV6 + WPA2E
0J DHCP + WPA2E
0H IPV6 + WPA2E + DHCP

00 Standard Features (IPV4 + No Accessories)

10 Lug Temp
30 Audible Alarm
A0 Lug Temp + Audible Alarm

1A Lug Temp + IPV6
1B Lug Temp + DHCP
1C Lug Temp + WPA2E
1E Lug Temp + IPV6 + DHCP
1F Lug Temp + IPV6 + WPA2E
1J Lug Temp + DHCP + WPA2E
1H Lug Temp + IPV6 + WPA2E + DHCP

3A Audible Alarm + IPV6
3B Audible Alarm + DHCP
3C Audible Alarm + WPA2E
3E Audible Alarm + IPV6 + DHCP
3F Audible Alarm + IPV6 + WPA2E
3J Audible Alarm + DHCP + WPA2E
3H Audible Alarm + IPV6 + WPA2E + DHCP

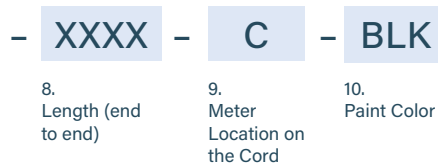
AA Lug Temp + Audible Alarm + IPV6
AB Lug Temp + Audible Alarm + DHCP
AC Lug Temp + Audible Alarm + WPA2E
AE Lug Temp + Audible Alarm + IPV6 + DHCP
AF Lug Temp + Audible Alarm + IPV6 + WPA2E
AJ Lug Temp + Audible Alarm + DHCP + WPA2E
AH Lug Temp + Audible Alarm + IPV6 + WPA2E + DHCP

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 V70 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.



CORDED METERS

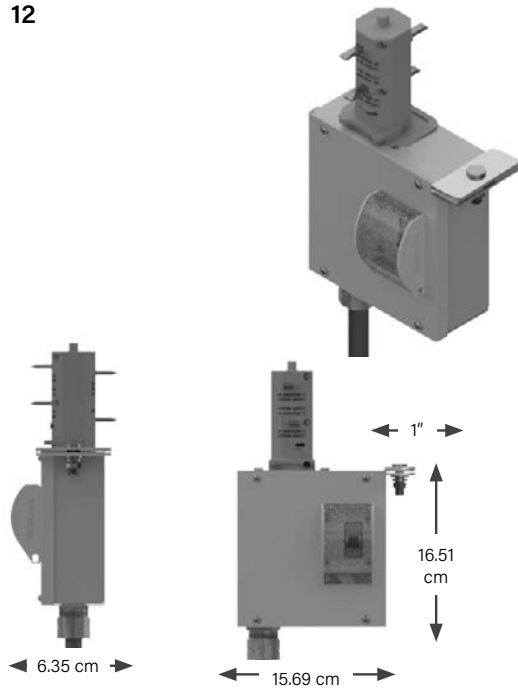


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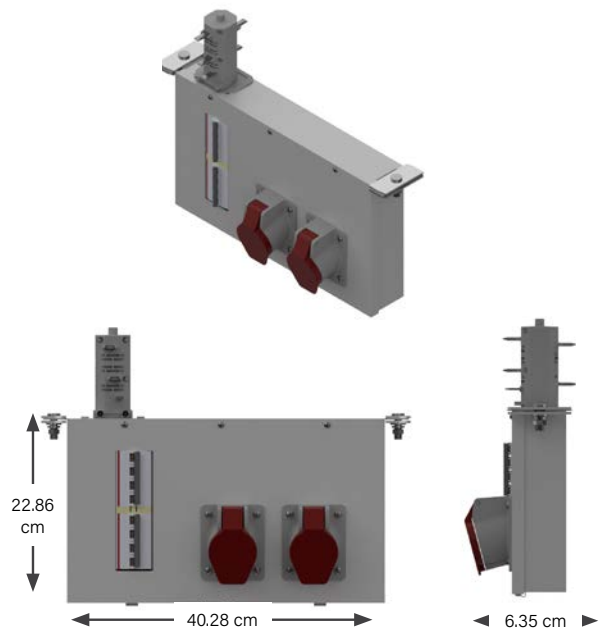
T5 PLUG-IN UNITS

BOX SIZES & STYLES

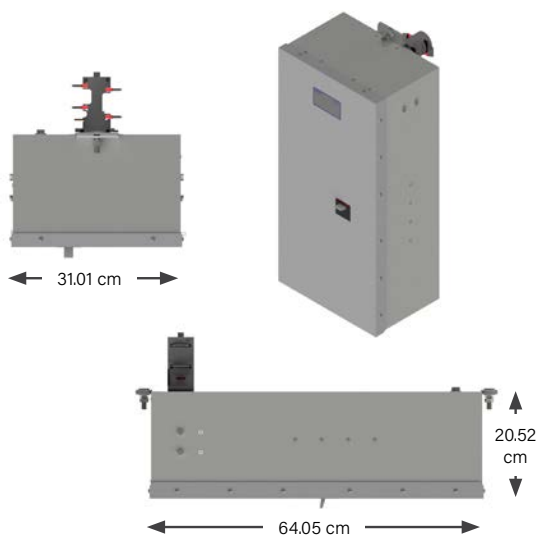
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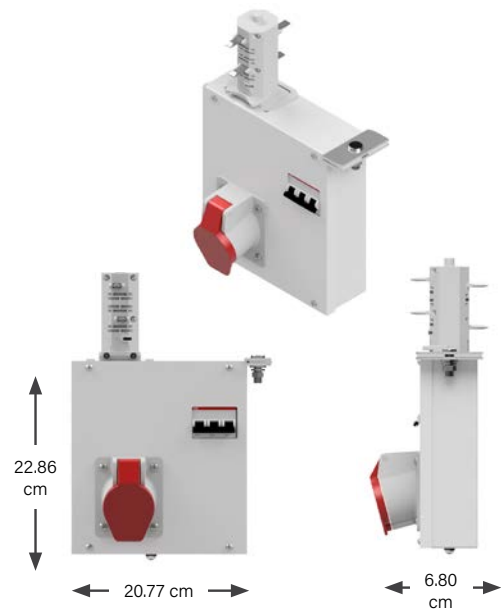
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■ 27



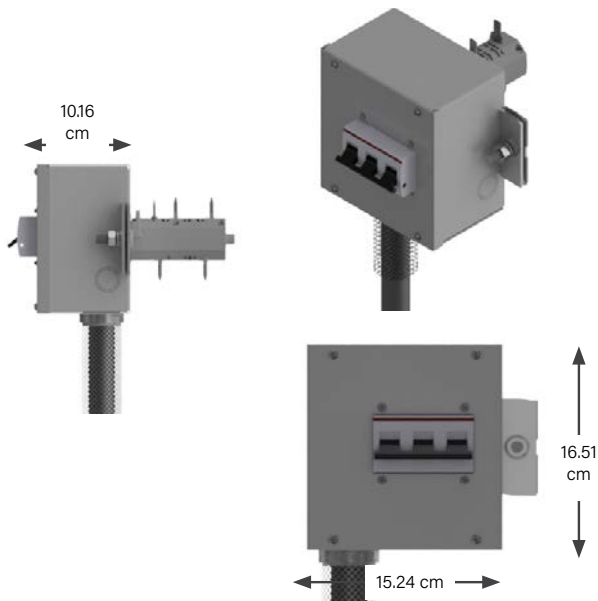
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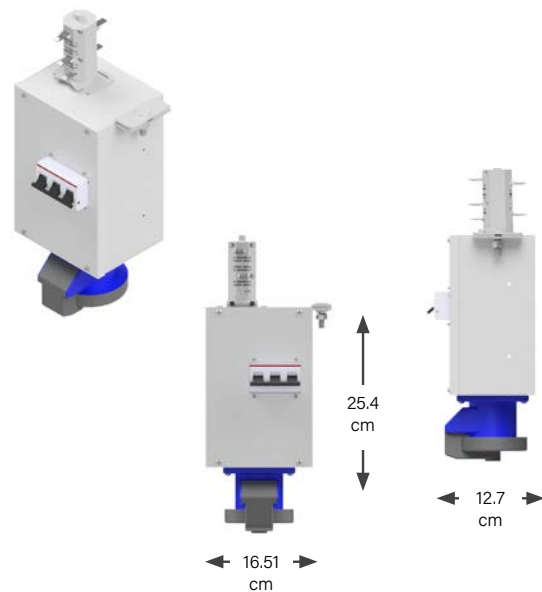
T5 PLUG-IN UNITS

BOX SIZES & STYLES

30



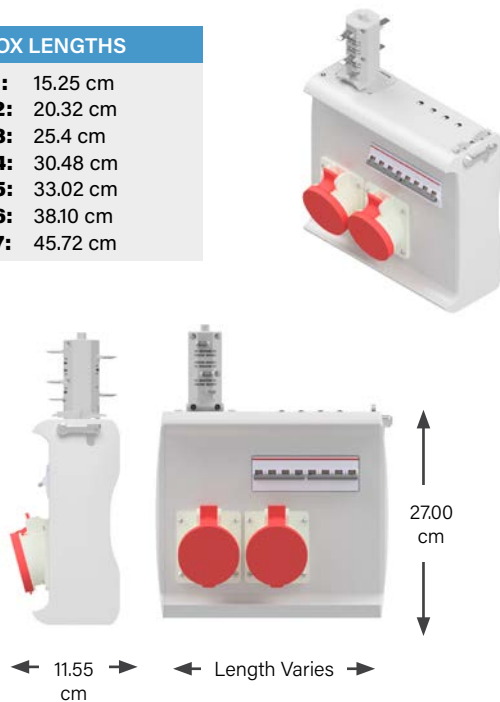
37



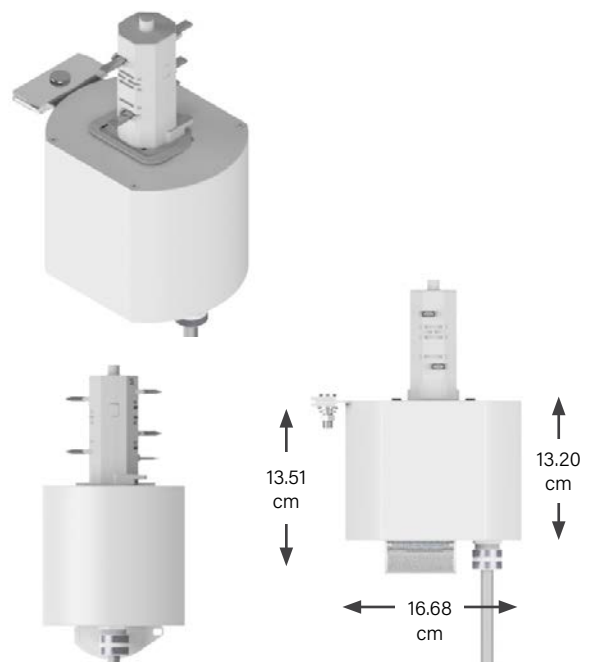
50

BOX LENGTHS

- 51:** 15.25 cm
- 52:** 20.32 cm
- 53:** 25.4 cm
- 54:** 30.48 cm
- 55:** 33.02 cm
- 56:** 38.10 cm
- 57:** 45.72 cm



71



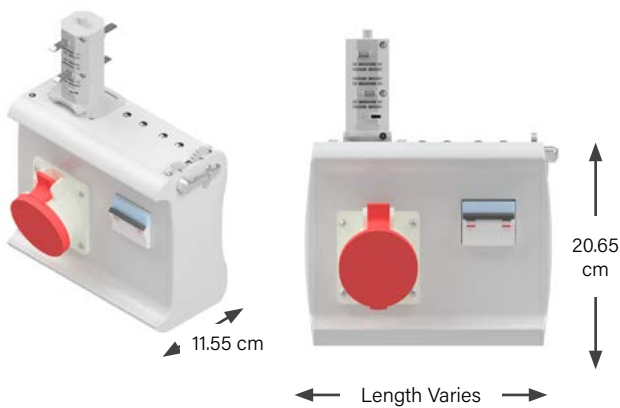
T5 PLUG-IN UNITS

BOX SIZES & STYLES

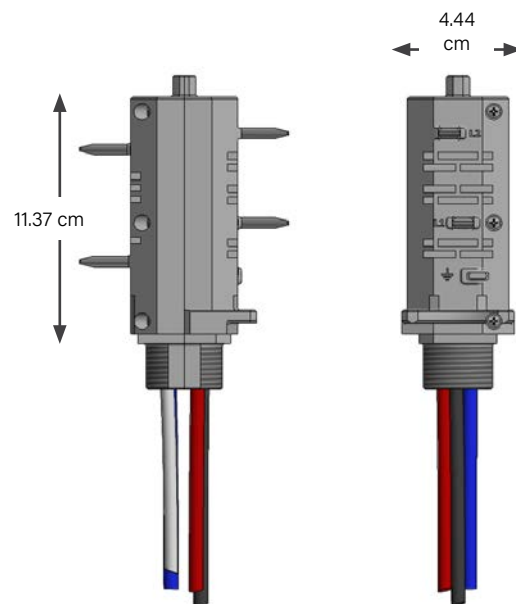
90

BOX LENGTHS

91:	15.25 cm
92:	20.32 cm
93:	25.4 cm
94:	30.48 cm
95:	33.02 cm
96:	38.10 cm
97:	45.72 cm



T5 PADDLE



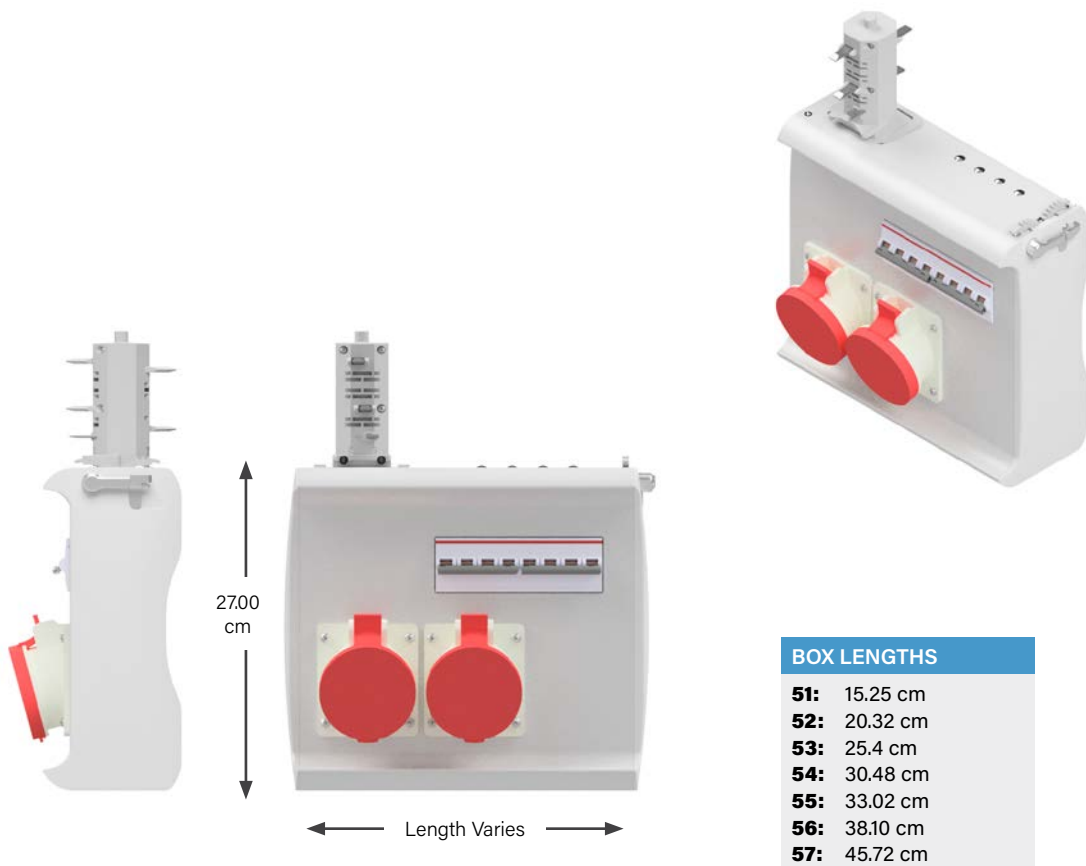
T5 PLUG-IN UNITS

50 SERIES ENCLOSURE CUT SHEET

■ PRODUCT DESCRIPTION

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

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



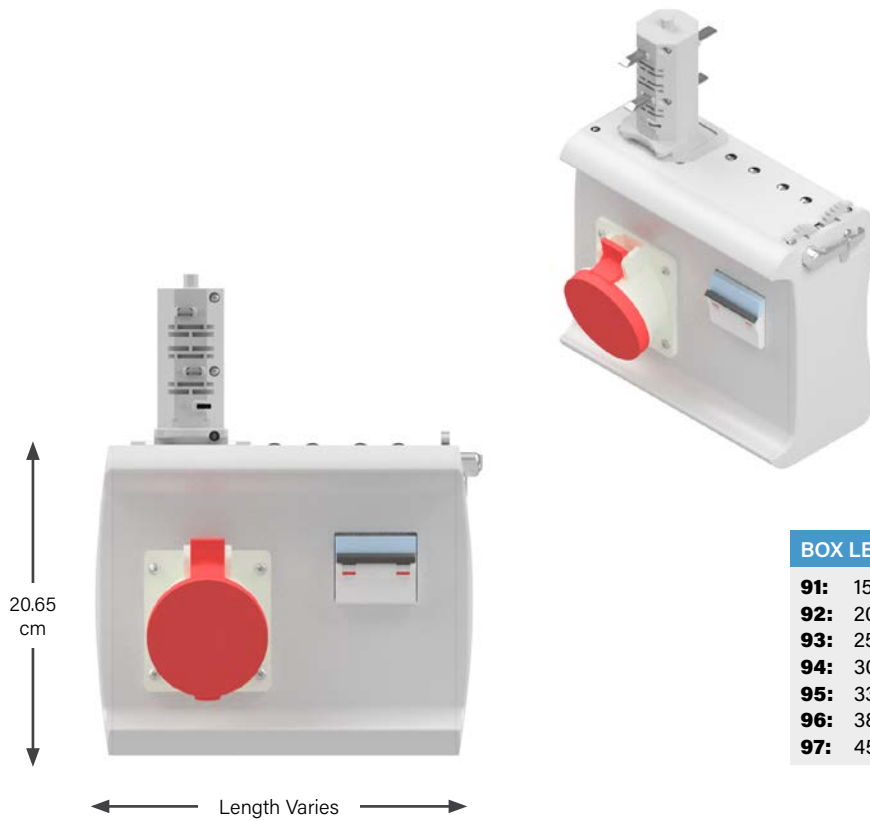
T5 PLUG-IN UNITS

90 SERIES ENCLOSURE CUT SHEET

■ PRODUCT DESCRIPTION

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

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



BOX LENGTHS

91:	15.25 cm
92:	20.32 cm
93:	25.4 cm
94:	30.48 cm
95:	33.02 cm
96:	38.10 cm
97:	45.72 cm

T5 PLUG-IN UNITS

DEVICE CODE TABLE

Pin & Sleeve Receptacles							
Code	Convention	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
TW	Pin & Sleeve	316R6S	Straight Receptacle	240/415	16	1PNG	IP44
TY	Pin & Sleeve	316A6S	Angled Receptacle	240/415	16	1PNG	IP44
TZ	Pin & Sleeve	516R6S	Straight Receptacle	240/415	16	3PNG	IP44
UB	Pin & Sleeve	516A6S	Angled Receptacle	240/415	16	3PNG	IP44
UC	Pin & Sleeve	332R6S	Straight Receptacle	240/415	32	1PNG	IP44
UE	Pin & Sleeve	332A6S	Angled Receptacle	240/415	32	1PNG	IP44
UF	Pin & Sleeve	532R6S	Straight Receptacle	240/415	32	3PNG	IP44
UH	Pin & Sleeve	532A6S	Angled Receptacle	240/415	32	3PNG	IP44
VI	Pin & Sleeve	363A6W	Angled Receptacle	240/415	63	1PNG	IP67
UL	Pin & Sleeve	563R6S	Straight Receptacle	240/415	63	3PNG	IP44
VL	Pin & Sleeve	563A6W	Angled Receptacle	240/415	63	3PNG	IP67
VM	Pin & Sleeve	3125R6W	Straight Receptacle	240/415	125	1PNG	IP67
VP	Pin & Sleeve	5125R6W	Straight Receptacle	240/415	125	3PNG	IP67
VR	Pin & Sleeve	5125A6W	Angled Receptacle	240/415	125	3PNG	IP67

Pin & Sleeve Connectors							
Code	Convention	Designation	Device Type	Voltage	Amperage	Wiring Configuration	IP Rating
TX	Pin & Sleeve	316C6S	Connector	240/415	16	1PNG	IP44
UA	Pin & Sleeve	516C6S	Connector	240/415	16	3PNG	IP44
UD	Pin & Sleeve	332C6S	Connector	240/415	32	1PNG	IP44
UG	Pin & Sleeve	532C6S	Connector	240/415	32	3PNG	IP44
UJ	Pin & Sleeve	363C6S	Connector	240/415	63	1PNG	IP44
VV	Pin & Sleeve	563C6W	Connector	240/415	63	3PNG	IP67
VN	Pin & Sleeve	3125C6W	Connector	240/415	125	1PNG	IP67
VQ	Pin & Sleeve	5125C6W	Connector	240/415	125	3PNG	IP67
ZW	Pin & Sleeve	Schuko 316CS	Connector	240/415	16	1PNG	IP44

WIRING CONFIGURATION REFERENCE TABLE

1 = Number of poles

P = Poles

N = Neutral

G = Ground

T5 PLUG-IN UNITS

PROTECTION CODE TABLE

Miniature Circuit Breaker - MCB					
Code	Type	Trip Style	Curve	Brand	Neutral Switch
AA	MCB	Thermal	C	ABB	No
AB	MCB	Thermal	C	SE	No
AC	MCB	Thermal	C	LEG	No
AD	MCB	Thermal	D	ABB	No
AE	MCB	Thermal	D	SE	No
AF	MCB	Thermal	D	LEG	No
AH	MCB	Thermal	C	ABB	Yes
AI	MCB	Thermal	C	SE	Yes
AJ	MCB	Thermal	C	LEG	Yes
AK	MCB	Thermal	D	ABB	Yes
AL	MCB	Thermal	D	SE	Yes
AM	MCB	Thermal	D	LEG	Yes

MCB with Residual Current Circuit Breaker - RCCB							
Code	Type	TripStyle	Curve	Brand	Sensitivity	Waveform	NeutralSwitch
AN	RCCB	Thermal	C	ABB	30 mA	Type A	Yes
AO	RCCB	Thermal	C	ABB	30 mA	Type AC	Yes
AP	RCCB	Thermal	C	ABB	30 mA	Type A AP-R High Immunity	Yes
AQ	RCCB	Thermal	C	ABB	100 mA	Type A	Yes
AR	RCCB	Thermal	C	ABB	100 mA	Type AC	Yes
AS	RCCB	Thermal	C	ABB	100 mA	Type A AP-R High Immunity	Yes
AT	RCCB	Thermal	C	ABB	300 mA	Type A	Yes
AU	RCCB	Thermal	C	ABB	300 mA	Type AC	Yes
AV	RCCB	Thermal	C	ABB	300 mA	Type A AP-R High Immunity	Yes
AW	RCCB	Thermal	C	SE	30 mA	Type A	Yes
AX	RCCB	Thermal	C	SE	30 mA	Type AC	Yes
AY	RCCB	Thermal	C	SE	30 mA	Type A Super Immunized (SI)	Yes
AZ	RCCB	Thermal	C	SE	100 mA	Type A	Yes
BA	RCCB	Thermal	C	SE	100 mA	Type AC	Yes
BB	RCCB	Thermal	C	SE	100 mA	Type A Super Immunized (SI)	Yes
BC	RCCB	Thermal	C	SE	300 mA	Type A	Yes
BD	RCCB	Thermal	C	SE	300 mA	Type AC	Yes
BE	RCCB	Thermal	C	SE	300 mA	Type A Super Immunized (SI)	Yes
BF	RCCB	Thermal	C	LEG	30 mA	Type A	Yes
BG	RCCB	Thermal	C	LEG	30 mA	Type AC	Yes
BH	RCCB	Thermal	C	LEG	30 mA	Type F High Immunity	Yes
BI	RCCB	Thermal	C	LEG	100 mA	Type A	Yes
BJ	RCCB	Thermal	C	LEG	100 mA	Type AC	Yes
BK	RCCB	Thermal	C	LEG	100 mA	Type F High Immunity	Yes
BL	RCCB	Thermal	C	LEG	300 mA	Type A	Yes
BM	RCCB	Thermal	C	LEG	300 mA	Type AC	Yes
BN	RCCB	Thermal	C	LEG	300 mA	Type F High Immunity	Yes
BO	RCCB	Thermal	D	ABB	30 mA	Type A	Yes
BP	RCCB	Thermal	D	ABB	30 mA	Type AC	Yes
BQ	RCCB	Thermal	D	ABB	30 mA	Type A AP-R High Immunity	Yes
BR	RCCB	Thermal	D	ABB	100 mA	Type A	Yes
BS	RCCB	Thermal	D	ABB	100 mA	Type AC	Yes
BT	RCCB	Thermal	D	ABB	100 mA	Type A AP-R High Immunity	Yes
BU	RCCB	Thermal	D	ABB	300 mA	Type A	Yes
BV	RCCB	Thermal	D	ABB	300 mA	Type AC	Yes
BW	RCCB	Thermal	D	ABB	300 mA	Type A AP-R High Immunity	Yes
BX	RCCB	Thermal	D	SE	30 mA	Type A	Yes
BY	RCCB	Thermal	D	SE	30 mA	Type AC	Yes
BZ	RCCB	Thermal	D	SE	30 mA	Type A Super Immunized (SI)	Yes

T5 PLUG-IN UNITS

PROTECTION CODE TABLE

MCB with Residual Current Circuit Breaker - RCCB (Continued)							
Code	Type	TripStyle	Curve	Brand	Sensitivity	Waveform	NeutralSwitch
CA	RCCB	Thermal	D	SE	100 mA	Type A	Yes
CB	RCCB	Thermal	D	SE	100 mA	Type AC	Yes
CC	RCCB	Thermal	D	SE	100 mA	Type A Super Immunized (SI)	Yes
CD	RCCB	Thermal	D	SE	300 mA	Type A	Yes
CE	RCCB	Thermal	D	SE	300 mA	Type AC	Yes
CF	RCCB	Thermal	D	SE	300 mA	Type A Super Immunized (SI)	Yes
CG	RCCB	Thermal	D	LEG	30 mA	Type A	Yes
CH	RCCB	Thermal	D	LEG	30 mA	Type AC	Yes
CI	RCCB	Thermal	D	LEG	30 mA	Type F High Immunity	Yes
CJ	RCCB	Thermal	D	LEG	100 mA	Type A	Yes
CK	RCCB	Thermal	D	LEG	100 mA	Type AC	Yes
CL	RCCB	Thermal	D	LEG	100 mA	Type F High Immunity	Yes
CM	RCCB	Thermal	D	LEG	300 mA	Type A	Yes
CN	RCCB	Thermal	D	LEG	300 mA	Type AC	Yes
CO	RCCB	Thermal	D	LEG	300 mA	Type F High Immunity	Yes
CP	RCCB	Electronic	-	ABB	-	-	No
CQ	RCCB	Electronic	-	SE	-	-	No
CR	RCCB	Electronic	-	LEG	-	-	No

MCB with Residual Current Device - RCD							
Code	Type	TripStyle	Curve	Brand	Sensitivity	Waveform	NeutralSwitch
CS	RCD	Thermal	C	ABB	30 mA	Type A	Yes
CT	RCD	Thermal	C	ABB	30 mA	Type AC	Yes
CU	RCD	Thermal	C	ABB	30 mA	Type A AP-R High Immunity	Yes
CV	RCD	Thermal	C	ABB	100 mA	Type A	Yes
CW	RCD	Thermal	C	ABB	100 mA	Type AC	Yes
CX	RCD	Thermal	C	ABB	100 mA	Type A AP-R High Immunity	Yes
CY	RCD	Thermal	C	ABB	300 mA	Type A	Yes
CZ	RCD	Thermal	C	ABB	300 mA	Type AC	Yes
DA	RCD	Thermal	C	ABB	300 mA	Type A AP-R High Immunity	Yes
DB	RCD	Thermal	C	SE	30 mA	Type A	Yes
DC	RCD	Thermal	C	SE	30 mA	Type AC	Yes
DD	RCD	Thermal	C	SE	30 mA	Type A Super Immunized (SI)	Yes
DE	RCD	Thermal	C	SE	100 mA	Type A	Yes
DF	RCD	Thermal	C	SE	100 mA	Type AC	Yes
DG	RCD	Thermal	C	SE	100 mA	Type A Super Immunized (SI)	Yes
DH	RCD	Thermal	C	SE	300 mA	Type A	Yes
DI	RCD	Thermal	C	SE	300 mA	Type AC	Yes
DJ	RCD	Thermal	C	SE	300 mA	Type A Super Immunized (SI)	Yes
DK	RCD	Thermal	C	LEG	30 mA	Type A	Yes
DL	RCD	Thermal	C	LEG	30 mA	Type AC	Yes
DM	RCD	Thermal	C	LEG	30 mA	Type F High Immunity	Yes
DN	RCD	Thermal	C	LEG	100 mA	Type A	Yes
DO	RCD	Thermal	C	LEG	100 mA	Type AC	Yes
DP	RCD	Thermal	C	LEG	100 mA	Type F High Immunity	Yes
DQ	RCD	Thermal	C	LEG	300 mA	Type A	Yes
DR	RCD	Thermal	C	LEG	300 mA	Type AC	Yes
DS	RCD	Thermal	C	LEG	300 mA	Type F High Immunity	Yes
DT	RCD	Thermal	D	ABB	30 mA	Type A	Yes
DU	RCD	Thermal	D	ABB	30 mA	Type AC	Yes
DV	RCD	Thermal	D	ABB	30 mA	Type A AP-R High Immunity	Yes
DW	RCD	Thermal	D	ABB	100 mA	Type A	Yes
DX	RCD	Thermal	D	ABB	100 mA	Type AC	Yes
DY	RCD	Thermal	D	ABB	100 mA	Type A AP-R High Immunity	Yes
DZ	RCD	Thermal	D	ABB	300 mA	Type A	Yes

T5 PLUG-IN UNITS

PROTECTION CODE TABLE

MCB with Residual Current Device - RCD (Continued)							
Code	Type	TripStyle	Curve	Brand	Sensitivity	Waveform	NeutralSwitch
EA	RCD	Thermal	D	ABB	300 mA	Type AC	Yes
EB	RCD	Thermal	D	ABB	300 mA	Type A AP-R High Immunity	Yes
EC	RCD	Thermal	D	SE	30 mA	Type A	Yes
ED	RCD	Thermal	D	SE	30 mA	Type AC	Yes
EE	RCD	Thermal	D	SE	30 mA	Type A Super Immunized (SI)	Yes
EF	RCD	Thermal	D	SE	100 mA	Type A	Yes
EG	RCD	Thermal	D	SE	100 mA	Type AC	Yes
EH	RCD	Thermal	D	SE	100 mA	Type A Super Immunized (SI)	Yes
EI	RCD	Thermal	D	SE	300 mA	Type A	Yes
EJ	RCD	Thermal	D	SE	300 mA	Type AC	Yes
EK	RCD	Thermal	D	SE	300 mA	Type A Super Immunized (SI)	Yes
EL	RCD	Thermal	D	LEG	30 mA	Type A	Yes
EM	RCD	Thermal	D	LEG	30 mA	Type AC	Yes
EN	RCD	Thermal	D	LEG	30 mA	Type F High Immunity	Yes
EO	RCD	Thermal	D	LEG	100 mA	Type A	Yes
EP	RCD	Thermal	D	LEG	100 mA	Type AC	Yes
EQ	RCD	Thermal	D	LEG	100 mA	Type F High Immunity	Yes
ER	RCD	Thermal	D	LEG	300 mA	Type A	Yes
ES	RCD	Thermal	D	LEG	300 mA	Type AC	Yes
ET	RCD	Thermal	D	LEG	300 mA	Type F High Immunity	Yes
EU	RCD	Electronic	-	ABB	-	-	No
EV	RCD	Electronic	-	SE	-	-	No
EW	RCD	Electronic	-	LEG	-	-	No

Residual Current Breaker with Overcurrent - RCBO							
Code	Type	TripStyle	Curve	Brand	Sensitivity	Waveform	NeutralSwitch
EX	RCBO	Thermal	C	ABB	30 mA	Type A	Yes
EY	RCBO	Thermal	C	ABB	30 mA	Type A AP-R High Immunity	Yes
EZ	RCBO	Thermal	C	ABB	100 mA	Type A	Yes
FA	RCBO	Thermal	C	ABB	100 mA	Type A AP-R High Immunity	Yes
FB	RCBO	Thermal	C	ABB	300 mA	Type A	Yes
FC	RCBO	Thermal	C	ABB	300 mA	Type A AP-R High Immunity	Yes
FD	RCBO	Thermal	C	SE	30 mA	Type A	Yes
FE	RCBO	Thermal	C	SE	30 mA	Type A Super Immunized (SI)	Yes
FF	RCBO	Thermal	C	SE	100 mA	Type A	Yes
FG	RCBO	Thermal	C	SE	100 mA	Type A Super Immunized (SI)	Yes
FH	RCBO	Thermal	C	SE	300 mA	Type A	Yes
FI	RCBO	Thermal	C	SE	300 mA	Type A Super Immunized (SI)	Yes
FJ	RCBO	Thermal	C	LEG	30 mA	Type A	Yes
FK	RCBO	Thermal	C	LEG	30 mA	Type F High Immunity	Yes
FL	RCBO	Thermal	C	LEG	100 mA	Type A	Yes
FM	RCBO	Thermal	C	LEG	100 mA	Type F High Immunity	Yes
FN	RCBO	Thermal	C	LEG	300 mA	Type A	Yes
FO	RCBO	Thermal	C	LEG	300 mA	Type F High Immunity	Yes
FP	RCBO	Thermal	D	ABB	30 mA	Type A	Yes
FQ	RCBO	Thermal	D	ABB	30 mA	Type A AP-R High Immunity	Yes
FR	RCBO	Thermal	D	ABB	100 mA	Type A	Yes
FS	RCBO	Thermal	D	ABB	100 mA	Type A AP-R High Immunity	Yes
FT	RCBO	Thermal	D	ABB	300 mA	Type A	Yes
FU	RCBO	Thermal	D	ABB	300 mA	Type A AP-R High Immunity	Yes
FV	RCBO	Thermal	D	SE	30 mA	Type A	Yes
FW	RCBO	Thermal	D	SE	30 mA	Type A Super Immunized (SI)	Yes
FX	RCBO	Thermal	D	SE	100 mA	Type A	Yes
FY	RCBO	Thermal	D	SE	100 mA	Type A Super Immunized (SI)	Yes
FZ	RCBO	Thermal	D	SE	300 mA	Type A	Yes

T5 PLUG-IN UNITS

PROTECTION CODE TABLE

Residual Current Breaker with Overcurrent - RCBO (Continued)							
Code	Type	TripStyle	Curve	Brand	Sensitivity	Waveform	NeutralSwitch
GA	RCBO	Thermal	D	SE	300 mA	Type A Super Immunized (SI)	Yes
GB	RCBO	Thermal	D	LEG	30 mA	Type A	Yes
GC	RCBO	Thermal	D	LEG	30 mA	Type F High Immunity	Yes
GD	RCBO	Thermal	D	LEG	100 mA	Type A	Yes
GE	RCBO	Thermal	D	LEG	100 mA	Type F High Immunity	Yes
GF	RCBO	Thermal	D	LEG	300 mA	Type A	Yes
GG	RCBO	Thermal	D	LEG	300 mA	Type F High Immunity	Yes

Molded Case Circuit Breaker - MCCB				
Code	Type	TripStyle	Brand	NeutralSwitch
GH	MCCB	Electronic	ABB	No
GI	MCCB	Electronic	SE	No
GJ	MCCB	Electronic	LEG	No
GK	MCCB	Thermal Fixed	ABB	No
GL	MCCB	Thermal Fixed	SE	No
GM	MCCB	Thermal Fixed	LEG	No
GN	MCCB	Thermal Adjustable	ABB	No
GO	MCCB	Thermal Adjustable	SE	No
GP	MCCB	Thermal Adjustable	LEG	No

Fuses								
Code	Type	TripStyle	Brand	Indicator	Protected NeutralSwitch	MAX Amperage	Utilization Category	Isolator Switch
GQ	FUSE	gG IEC 60269 Fuse	ABB	-	No	32	AC-22 B	-
GR	FUSE	gG IEC 60269 Fuse	ABB	LED	No	32	AC-22 B	-
GS	FUSE	gG IEC 60269 Fuse	ABB	-	Yes	32	AC-22 B	-
GT	FUSE	gG IEC 60269 Fuse	ABB	LED	Yes	32	AC-22 B	-
GU	FUSE	gG IEC 60269 Fuse	ABB	-	No	50	AC-20 B	Yes
GV	FUSE	gG IEC 60269 Fuse	ABB	LED	No	50	AC-20 B	Yes
GW	FUSE	gG IEC 60269 Fuse	ABB	-	Yes	50	AC-20 B	Yes
GX	FUSE	gG IEC 60269 Fuse	ABB	LED	Yes	50	AC-20 B	Yes
GY	FUSE	gG IEC 60269 Fuse	ABB	-	No	50	AC-20 B	No
GZ	FUSE	gG IEC 60269 Fuse	ABB	LED	No	50	AC-20 B	No
HA	FUSE	gG IEC 60269 Fuse	ABB	-	Yes	50	AC-20 B	No
HB	FUSE	gG IEC 60269 Fuse	ABB	LED	Yes	50	AC-20 B	No
HC	FUSE	gG IEC 60269 Fuse	ABB	-	No	125	AC-20 B	Yes
HD	FUSE	gG IEC 60269 Fuse	ABB	LED	No	125	AC-20 B	Yes
HE	FUSE	gG IEC 60269 Fuse	ABB	-	Yes	125	AC-20 B	Yes
HF	FUSE	gG IEC 60269 Fuse	ABB	LED	Yes	125	AC-20 B	Yes
HG	FUSE	gG IEC 60269 Fuse	ABB	-	No	125	AC-20 B	No
HI	FUSE	gG IEC 60269 Fuse	ABB	LED	No	125	AC-20 B	No
HJ	FUSE	gG IEC 60269 Fuse	ABB	-	Yes	125	AC-20 B	No
HK	FUSE	gG IEC 60269 Fuse	ABB	LED	Yes	125	AC-20 B	No

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