



NECTOR M Power System

Building and Luminaire Power

Buildings are alive. They talk. They breath. They have the intelligence to sense and react, anticipate and illuminate. With increased urbanization and a rise in environmental concerns, there is a growing demand for state-of-the-art buildings that provide total comfort, convenience and control. The NECTOR M power system will elevate how buildings are powered within the walls and to the many devices that it powers.





The NECTOR M Power system is a fully pluggable, lighting and power electrical modular wiring connector and cabling system for permanent electrical installations in the construction industry.

APPLICATIONS

- Commercial Office / Retail Buildings
- Hospitals
- Schools
- Hotels
- Factory Built Construction

ELECTRICAL

- **Operating Voltage:** 250 VAC
- **Operating current:**

Nominal Wire Cross Sectional Area (mm ²)	Single phase circuit (2w. loaded max.) Current max.	Multi-phase circuit (32.loaded max.) Current max.
1.5	16A	10A
2.5	20A	16A

BENEFITS

- Fully pluggable, modular wiring electrical installation system
- 3, 5, 6 & 7 position connector systems
- Connectors available in white and black
- Housing keying options prevent mis-mating
- Cable assemblies available upon request
- Circular form factor simplifies routing during installations
- 3 Pole System fits through a 15mm diameter opening
- 5, 6 & 7 Pole System fits through a 22mm diameter opening
- Tool disconnect required by IEC standards

MECHANICAL

- **Operating temperature:** -40°C to 70° C (depending on cable used)
100°C on insulating parts
- **UV Resistant:** Black connectors only
- **Seal Rating:** IP20
- **Wire Termination:** Closed barrel pin & socket crimped terminals

STANDARDS

- IEC 61535

PRODUCT SPECIFICATIONS

3 position connector:

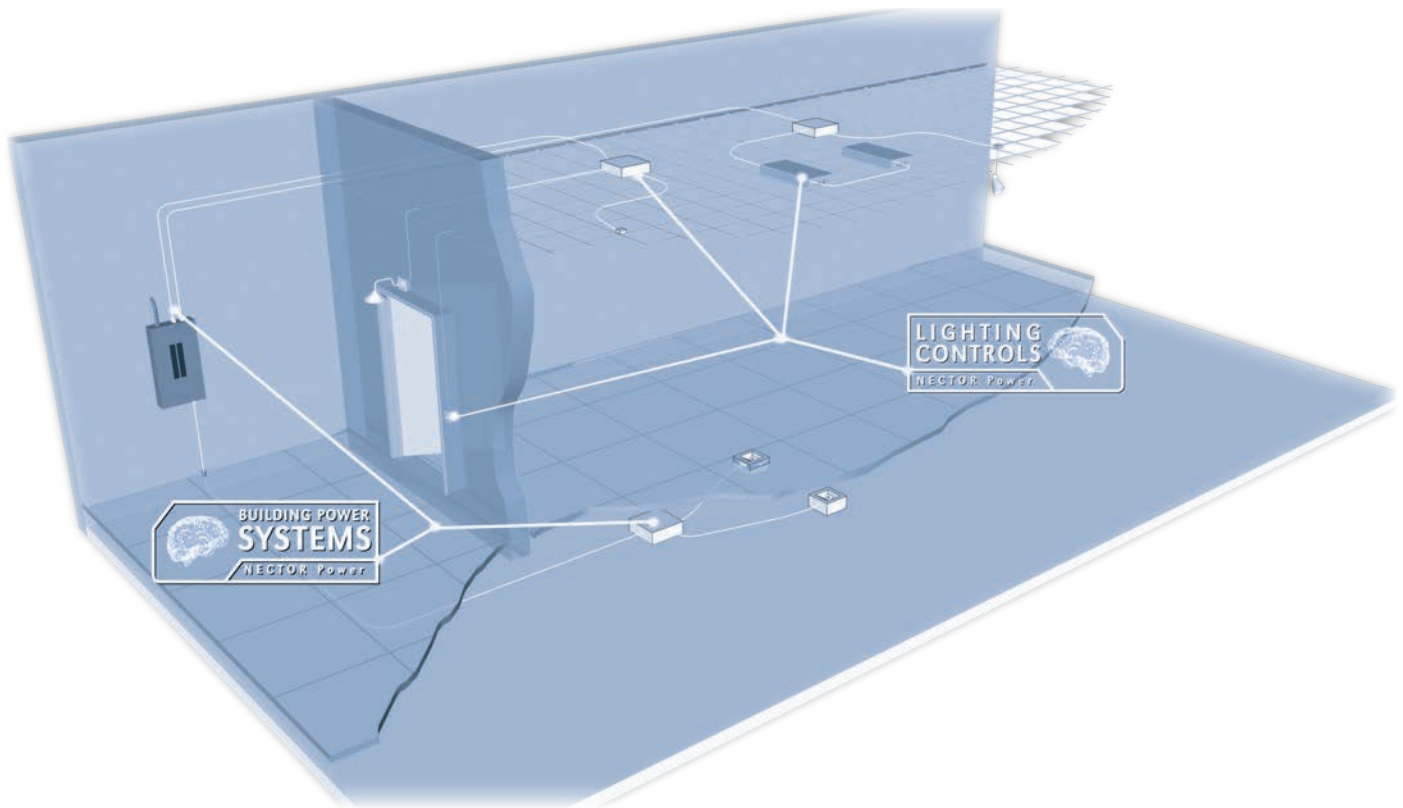
Application Specification:	114-20152
Product Specification:	108-20304
Packaging Specification (Connectors):	107-20294
Packaging Specification (Terminals):	107-20295

5, 6 & 7 position connector:

Application Specification:	114-20169
Product Specification:	108-20324
Packaging Specification (Connectors):	107-20300
Packaging Specification (Terminals):	107-20295

Pole configurations

- 3 Pole (L, N, ground)
- 5 Pole (L1, S1, S2, N, ground)
- 6 Pole (L1, L2, S1, S2, N, ground)
- 7 Pole (L1, L2, L3, S1, S2, N, ground)



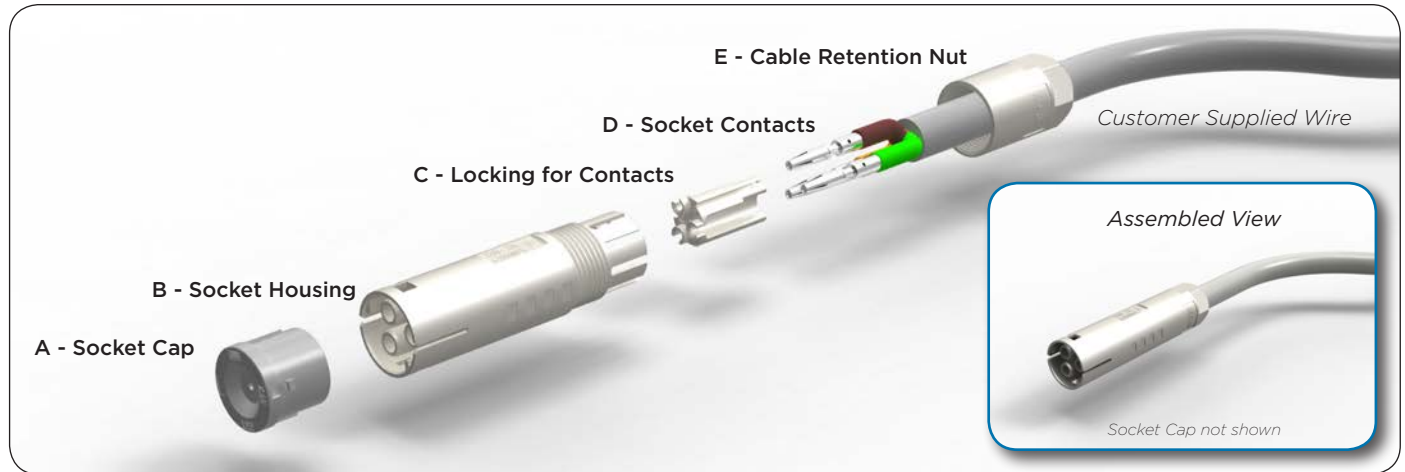
BUILDING POWER


The NECTOR M power system allows electrical contract manufacturers the ability to engineer, design and build power distribution units, electrical devices, and cable assemblies off-site that result in reduced on-site labor costs, increased efficiency and improved reliability for permanent electrical installations in the construction industry. This state-of-the-art multi-pole, keyed, modular wiring system is ideal for lighting designers, contractors and OEMs that want flexibility in distributing power to various lighting systems and other electrical devices common in all buildings. The inherent multiple branch circuit capability simplifies cabling in the premises and its circular form factor makes routing during installation a breeze when compared with the rectangular electrical connection systems in the market.


LUMINAIRE SYSTEMS

The NECTOR M power system offers flexibility in lighting luminaire designs and can be seamlessly integrated into existing or new construction. The 3 Pole system is ideal for use in ceiling, wall, pendant, and furniture lighting fixtures that require a ground connection in residential or commercial retail spaces. The multi-phase, 5 Pole system provides the power and signal connections required in horticultural and emergency lighting applications. The multi-phase 7 Pole system provides additional power and signal connections for use in emergency lighting systems (mainly in markets using BT standard) and for color control lighting capability.


NECTOR 3 POLE SOCKET CONNECTOR, FREE HANGING, UNSEALED



A - Socket Cap	TE Part Number	Color
	293596-1	Gray
293596		

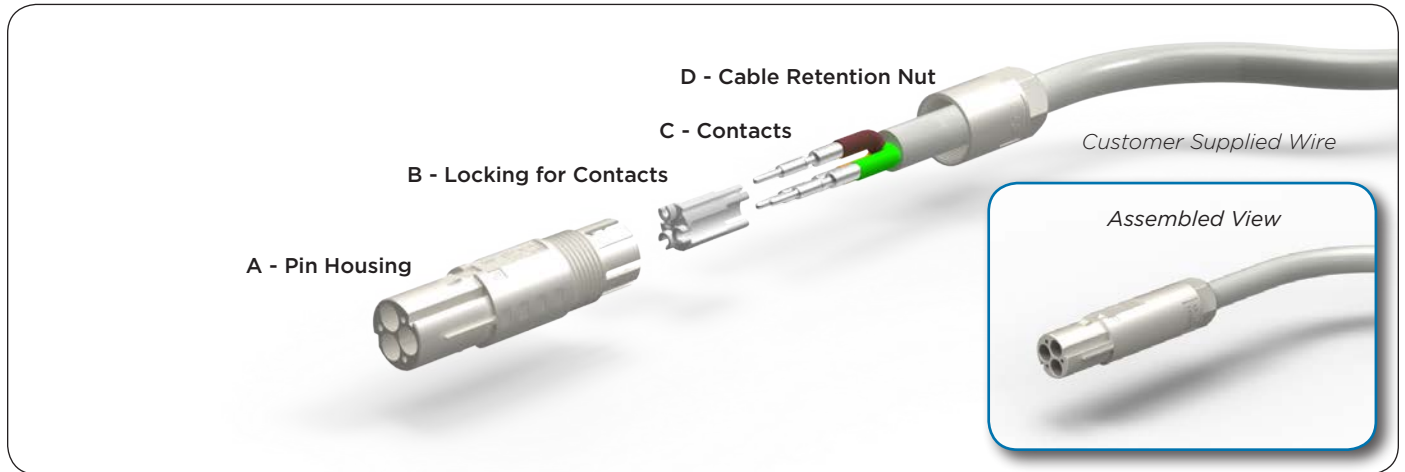
C - Locking for Contacts	TE Part Number	Color
	293470-1	Natural
293470		


B - Socket Housing	TE Part Number	Color	Polarization Code
	293468-1	Natural	A
293468-2	Natural	B	
293468-3	Natural	C	
293468-4	Natural	D	
293468-5	Natural	E	
293468-6	Natural	F	
1-293468-1	Black	A	
	Black	B	
	Black	C	
	Black	D	
	Black	E	
	Black	F	
293468			


D - Socket Contacts	TE Part Number	Cable Size
	293475-2	1.5 mm ² Cable
	1-293475-2	2.5 mm ² Cable
293475		


E - Cable Retention Nut	TE Part Number	Cable Size	Color
	293607-1	1.5 mm ²	Natural
293607-2	2.5 mm ²	Natural	
1-293607-1	1.5 mm ²	Black	
	2.5 mm ²	Black	
293607			


NECTOR 3 POLE PIN CONNECTOR, FREE HANGING, UNSEALED




A - Pin Housing	TE Part Number	Color	Polarization Code
 293469	293469-1	Natural	A
	293469-2	Natural	B
	293469-3	Natural	C
	293469-4	Natural	D
	293469-5	Natural	E
	293469-6	Natural	F
	1-293469-1	Black	A
	1-293469-2	Black	B
	1-293469-3	Black	C
	1-293469-4	Black	D
	1-293469-5	Black	E
	1-293469-6	Black	F

D - Cable Retention Nut	TE Part Number	Cable Size	Color
 293607	293607-1	1.5 mm ²	Natural
	293607-2	2.5 mm ²	Natural
	1-293607-1	1.5 mm ²	Black
	1-293607-2	2.5 mm ²	Black

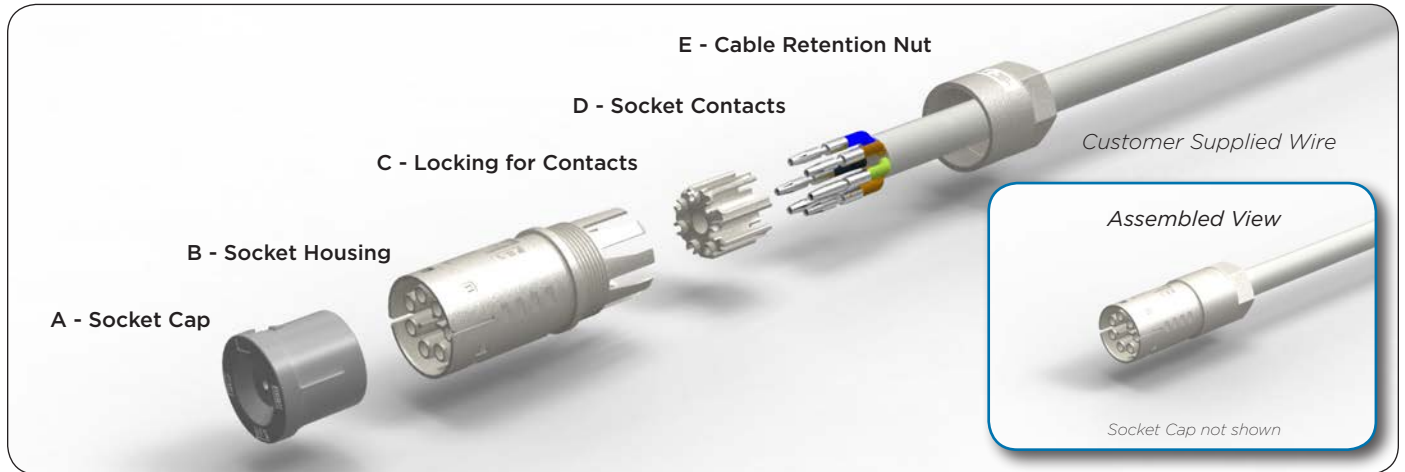
B - Locking for Contacts	TE Part Number	Color
 293470	293470-1	Natural


C - Contacts	TE Part Number	Cable Size
 293476	293476-2	1.5 mm ² Cable
	1-293476-2	2.5 mm ² Cable


3 POLE T-SPLITTER CONNECTOR

T-Splitter	TE Part Number	Color	Polarization Code
 293611	293611-1	Natural	A
	293611-2	Natural	B
	293611-3	Natural	C
	293611-4	Natural	D
	293611-5	Natural	E
	293611-6	Natural	F
	1-293611-1	Black	A
	1-293611-2	Black	B
	1-293611-3	Black	C
	1-293611-4	Black	D
	1-293611-5	Black	E
	1-293611-6	Black	F


NECTOR 5, 6 & 7 POLE SOCKET CONNECTOR, FREE HANGING, UNSEALED




A - Socket Cap	TE Part Number	Color
 293682	293682-1	Gray

C - Locking for Contacts	TE Part Number	Color
 293658	293658-1	Natural

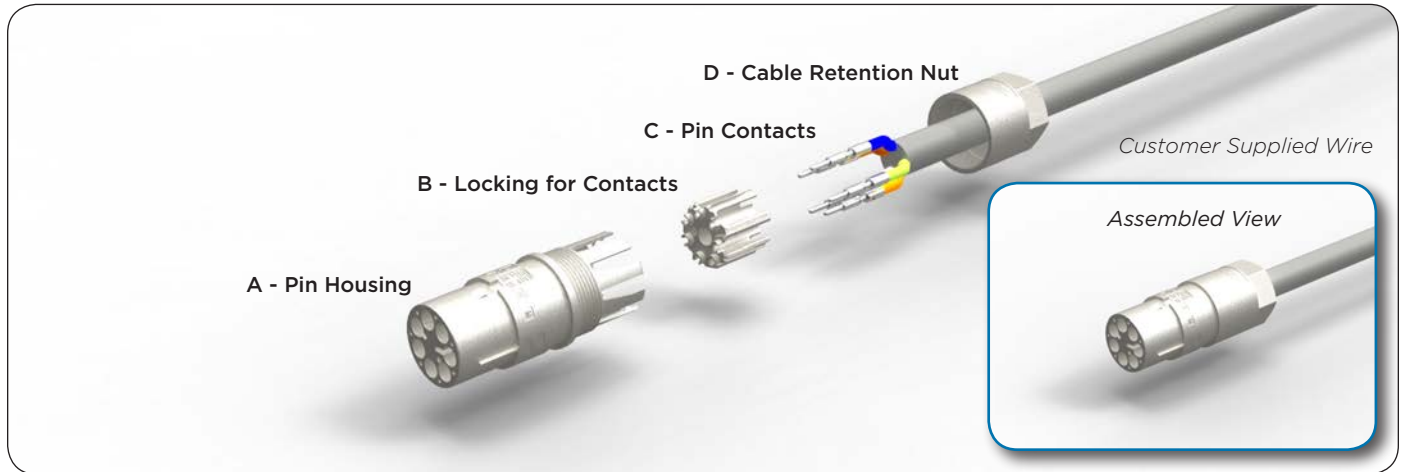
B - Socket Housing	TE Part Number	Pole Count
	293615	5 pole
	293656	6 pole
	293721	7 pole

D - Socket Contacts	TE Part Number	Cable Size
	293475-2	1.5 mm ² Cable
293475	1-293475-2	2.5 mm ² Cable

TE Part Number 5 pole	TE Part Number 6 pole	TE Part Number 7 pole	Color	Polarization Code
293615-1		293721-1	Natural	A
293615-2		293721-2	Natural	B
293615-3	293656-3	293721-3	Natural	C
293615-4	293656-4	293721-4	Natural	D
293615-5	293656-5	293721-5	Natural	E
1-293615-1		1-293721-1	Black	A
1-293615-2		1-293721-2	Black	B
1-293615-3	1-293656-3	1-293721-3	Black	C
1-293615-4	1-293656-4	1-293721-4	Black	D
1-293615-5	1-293656-5	1-293721-5	Black	E

E - Cable Retention Nut	TE Part Number	Cable Size	Color
 293660	293660-3	5G x 2.5	Natural
	293660-4	6G x 2.5	Natural
	293660-5	7G x 2.5	Natural
	1-293660-3	5G x 2.5	Black
	1-293660-4	6G x 2.5	Black
	1-293660-5	7G x 2.5	Black

NECTOR 5, 6 & 7 POLE PIN CONNECTOR, FREE HANGING, UNSEALED



A - Pin Housing



293616 5 pole
 293657 6 pole
 293722 7 pole

TE Part Number 5 pole	TE Part Number 6 pole	TE Part Number 7 pole	Color	Polarization Code
293616-1		293722-1	Natural	A
293616-2		293722-2	Natural	B
293616-3	293657-3	293722-3	Natural	C
293616-4	293657-4	293722-4	Natural	D
293616-5	293657-5	293722-5	Natural	E
1-293616-1		1-293722-1	Black	A
1-293616-2		1-293722-2	Black	B
1-293616-3	1-293657-3	1-293722-3	Black	C
1-293616-4	1-293657-4	1-293722-4	Black	D
1-293616-5	1-293657-5	1-293722-5	Black	E

B - Locking for Contacts



293658

TE Part Number Color

293658-1 Natural

C - Pin Contacts



293476

TE Part Number Cable Size

293476-2 1.5 mm² Cable

1-293476-2 2.5 mm² Cable

E - Cable Retention Nut



293660

TE Part Number Cable Size Color

293660-3 5G x 2.5 Natural

293660-4 6G x 2.5 Natural

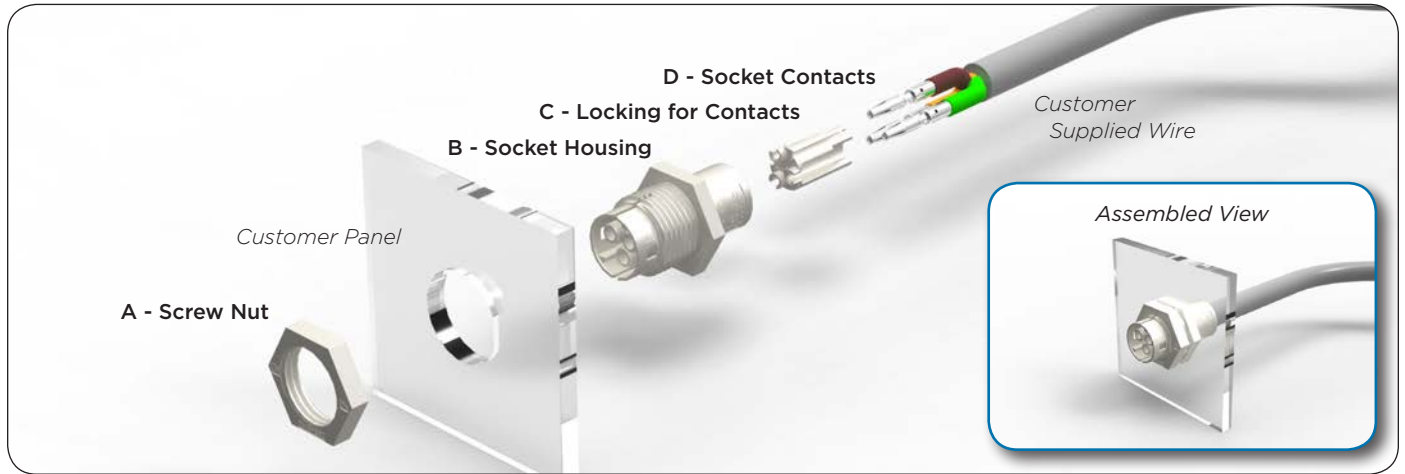
293660-5 7G x 2.5 Natural


1-293660-3 5G x 2.5 Black


1-293660-4 6G x 2.5 Black


1-293660-5 7G x 2.5 Black


NECTOR 3 POLE SOCKET CONNECTOR, PANEL MOUNT, UNSEALED



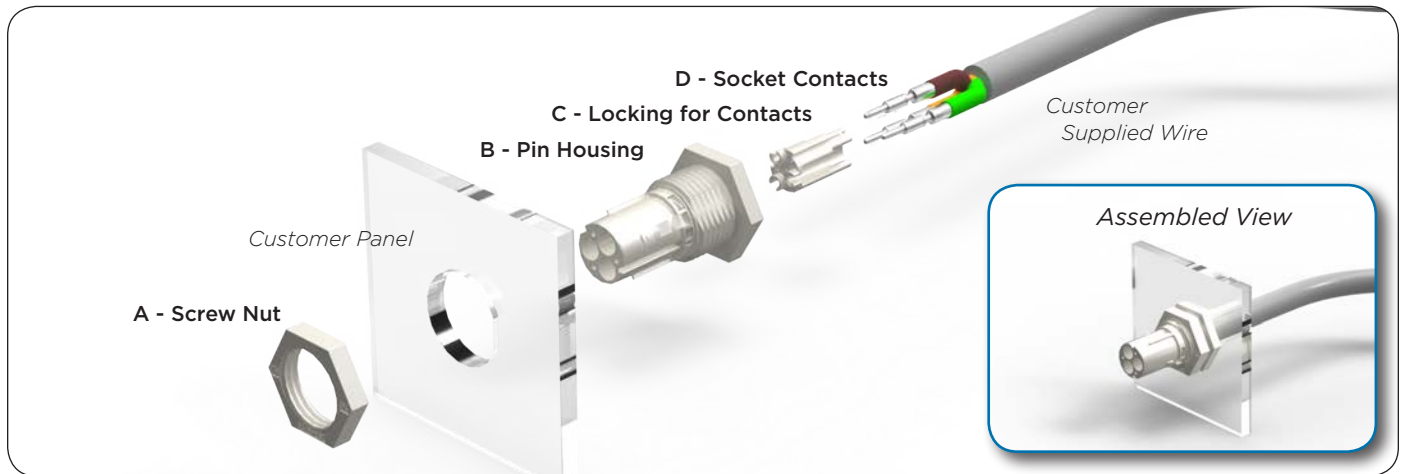
A - Screw Nut	TE Part Number	Color
 293481	293481-1	Natural
	1-293481-1	Black


C - Locking for Contacts	TE Part Number	Color
 293470	293470-1	Natural


B - Socket Housing	TE Part Number	Color	Polarization Code
 293606	293606-1	Natural	A
	293606-2	Natural	B
	293606-3	Natural	C
	293606-4	Natural	D
	293606-5	Natural	E
	293606-6	Natural	F
	1-293606-1	Black	A
	1-293606-2	Black	B
	1-293606-3	Black	C
	1-293606-4	Black	D
	1-293606-5	Black	E
	1-293606-6	Black	F


D - Socket Contacts	TE Part Number	Cable Size
 293475	293475-2	1.5 mm ² Cable
	1-293475-2	2.5 mm ² Cable


NECTOR 3 POLE PIN CONNECTOR, PANEL MOUNT, UNSEALED



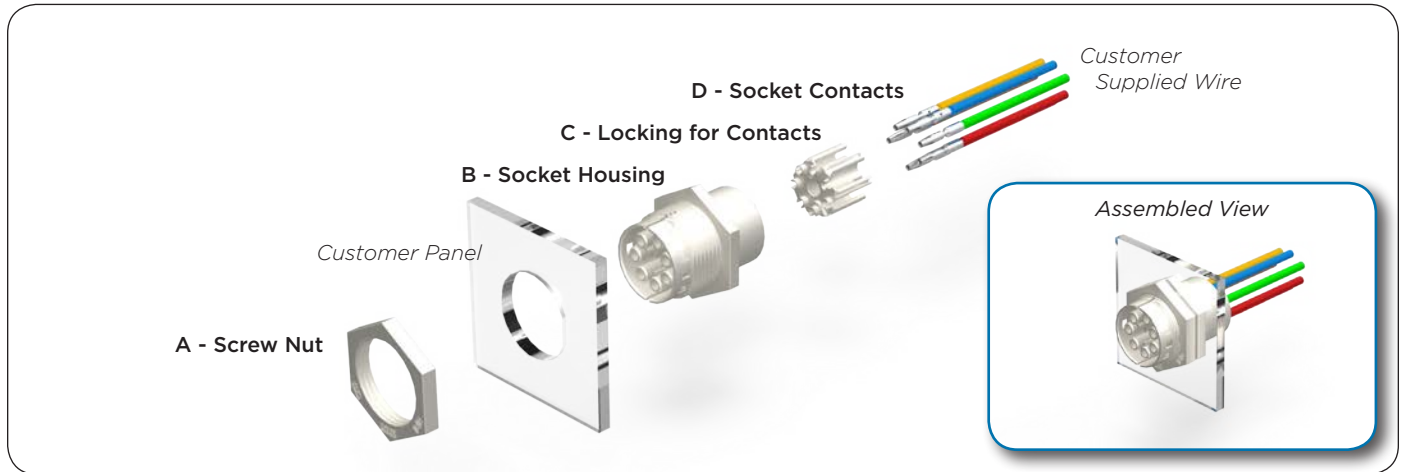
A - Screw Nut	TE Part Number	Color
 293481	293481-1	Natural
	1-293481-1	Black

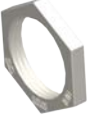
C - Locking for Contacts	TE Part Number	Color
 293470	293470-1	Natural


B - Pin Housing	TE Part Number	Color	Polarization Code
 293469	293598-1	Natural	A
	293598-2	Natural	B
	293598-3	Natural	C
	293598-4	Natural	D
	293598-5	Natural	E
	293598-6	Natural	F
	1-293598-1	Black	A
	1-293598-2	Black	B
	1-293598-3	Black	C
	1-293598-4	Black	D
	1-293598-5	Black	E
	1-293598-6	Black	F

C - Pin Contacts	TE Part Number	Cable Size
 293476	293476-2	1.5 mm ² Cable
	1-293476-2	2.5 mm ² Cable


NECTOR 5, 6 & 7 POLE SOCKET CONNECTOR, PANEL MOUNT, UNSEALED



A - Screw Nut	TE Part Number	Color
	293708-1	Natural
	1-293708-1	Black
293708		

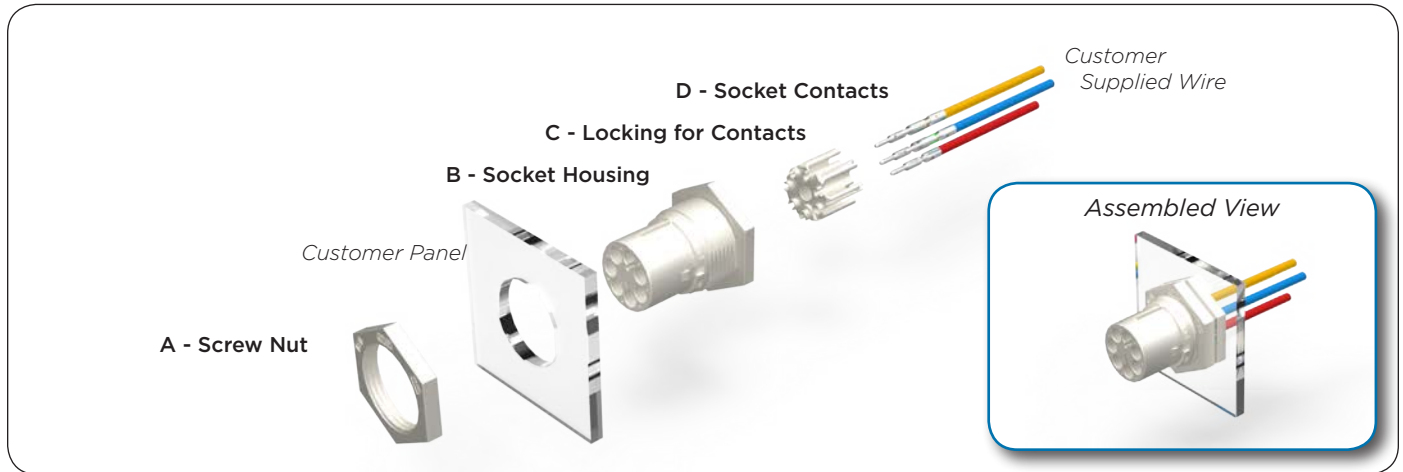
C - Locking for Contacts	TE Part Number	Color
	293658-1	Natural
293658		

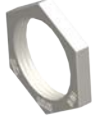
B - Socket Housing		
	293687	5 pole
	293673	6 pole
	293773	7 pole


D - Socket Contacts	TE Part Number	Cable Size
	293475-2	1.5 mm ² Cable
	1-293475-2	2.5 mm ² Cable
293475		

TE Part Number 5 pole	TE Part Number 6 pole	TE Part Number 7 pole	Color	Polarization Code
293687-1		293773-1	Natural	A
293687-2		293773-2	Natural	B
293687-3	293673-3	293773-3	Natural	C
293687-4	293673-4	293773-4	Natural	D
293687-5	293673-5	293773-5	Natural	E
1-293687-1		1-293773-1	Black	A
1-293687-2		1-293773-2	Black	B
1-293687-3	1-293673-3	1-293773-3	Black	C
1-293687-4	1-293673-4	1-293773-4	Black	D
1-293687-5	1-293673-5	1-293773-5	Black	E


NECTOR 5, 6 & 7 POLE PIN CONNECTOR, PANEL MOUNT, UNSEALED



A - Screw Nut	TE Part Number	Color
	293708-1	Natural
	1-293708-1	Black
293708		

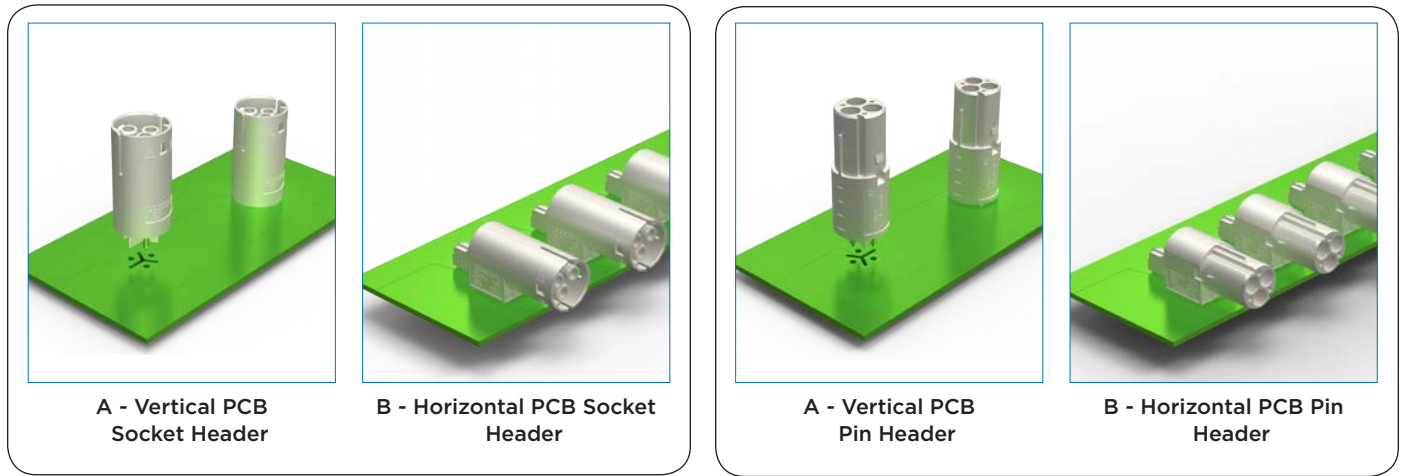
C - Locking for Contacts	TE Part Number	Color
	293658-1	Natural
293658		

B - Socket Housing	TE Part Number	Cable Size
	293688	5 pole
	293674	6 pole
	293774	7 pole


C - Pin Contacts	TE Part Number	Cable Size
	293476-2	1.5 mm ² Cable
	1-293476-2	2.5 mm ² Cable
293476		

TE Part Number 5 pole	TE Part Number 6 pole	TE Part Number 7 pole	Color	Polarization Code
293688-1		293774-1	Natural	A
293688-2		293774-2	Natural	B
293688-3	293674-3	293774-3	Natural	C
293688-4	293674-4	293774-4	Natural	D
293688-5	293674-5	293774-5	Natural	E
1-293688-1		1-293774-1	Black	A
1-293688-2		1-293774-2	Black	B
1-293688-3	1-293674-3	1-293774-3	Black	C
1-293688-4	1-293674-4	1-293774-4	Black	D
1-293688-5	1-293674-5	1-293774-5	Black	E


NECTOR 3 POLE SOCKET & PIN PCB MOUNTED HEADERS



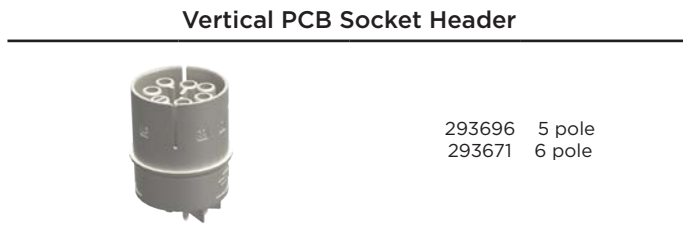
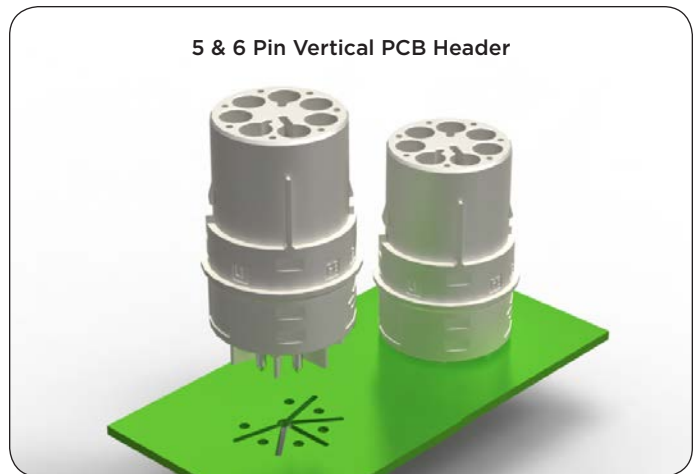
A - Vertical PCB Socket	TE Part Number	Color	Polarization Code
 293602	293602-1	Natural	A
	293602-2	Natural	B
	293602-3	Natural	C
	293602-4	Natural	D
	293602-5	Natural	E
	293602-6	Natural	F

A - Vertical PCB Pin	TE Part Number	Color	Polarization Code
 293590	293590-1	Natural	A
	293590-2	Natural	B
	293590-3	Natural	C
	293590-4	Natural	D
	293590-5	Natural	E
	293590-6	Natural	F

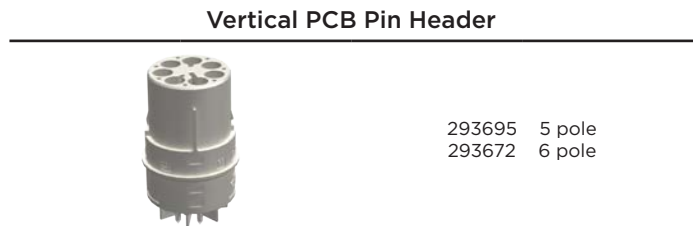
B - Horizontal PCB Socket	TE Part Number	Color	Polarization Code
 293605	293605-1	Natural	A
	293605-2	Natural	B
	293605-3	Natural	C
	293605-4	Natural	D
	293605-5	Natural	E
	293605-6	Natural	F

B - Horizontal PCB Pin	TE Part Number	Color	Polarization Code
 293593	293593-1	Natural	A
	293593-2	Natural	B
	293593-3	Natural	C
	293593-4	Natural	D
	293593-5	Natural	E
	293593-6	Natural	F

NECTOR 5 & 6 POLE SOCKET & PIN PCB MOUNTED HEADERS



293696 5 pole
293671 6 pole



293695 5 pole
293672 6 pole

TE Part Number 5 pole	TE Part Number 6 pole	Color	Polarization Code
293696-1		Natural	A
293696-2		Natural	B
293696-3	293671-3	Natural	C
293696-4	293671-4	Natural	D
293696-5	293671-5	Natural	E

TE Part Number 5 pole	TE Part Number 6 pole	Color	Polarization Code
293695-1		Natural	A
293695-2		Natural	B
293695-3	293672-3	Natural	C
293695-4	293672-4	Natural	D
293695-5	293672-5	Natural	E

FOR MORE INFORMATION

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*as defined www.te.com/leadfree

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