

NECTOR M POWER SYSTEM

BUILDING AND LUMINAIRE POWER



Buildings are alive. They have the intelligence to sense and react, anticipate and illuminate. They talk- they breathe and 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 help enhance how buildings are powered within the walls and expand to the many devices that it powers.



The NECTOR M power system is a flexible, fully pluggable, modular wiring, sealed connector and cabling system for permanent power and data circuit electrical installations in the construction industry. The NECTOR M provides a reconfigurable, “plug and play” alternative to traditional hard-wired electrical connections.

Applications

- **Lighting**
 - Architectural, Commercial, Industrial, Residential, Retail Display, Emergency, Entertainment and Off-Grid
- **Power Distribution**
 - Residential, Commercial Office /Retail Buildings, Hotels, Schools, Hospitals, High Bay and Factory Built Construction

Electrical

- **Operating Voltage:** 400 VAC IEC rating
600 VAC UL rating
- **Operating current:**

Wire Gauge	Single phase circuit	Multi-phase circuit
	(2 W loaded max) Current max.	(3 W loaded max) Current max.
1.5 mm ²	16 A	10 A
2.5 mm ²	20 A	16 A
14 AWG	15 A	
16 AWG	10 A	
18 AWG	7 A	

Mechanical

- **Operating temperature:** -40°C to 70° C (depending on cable used)
85°C on insulating parts
- **UV Resistant:** Black connectors only
- **Seal Rating:** IP20
- **Wire Termination:** Closed barrel pin & socket crimped terminals

Standards

- IEC 61535
- UL 1977 Pending

Product Specifications

3 position connector:

Application Specification:	114-20152
Product Specification:	108-20304

5, 6 & 7 position connector:

Application Specification:	114-20169
Product Specification:	108-20324

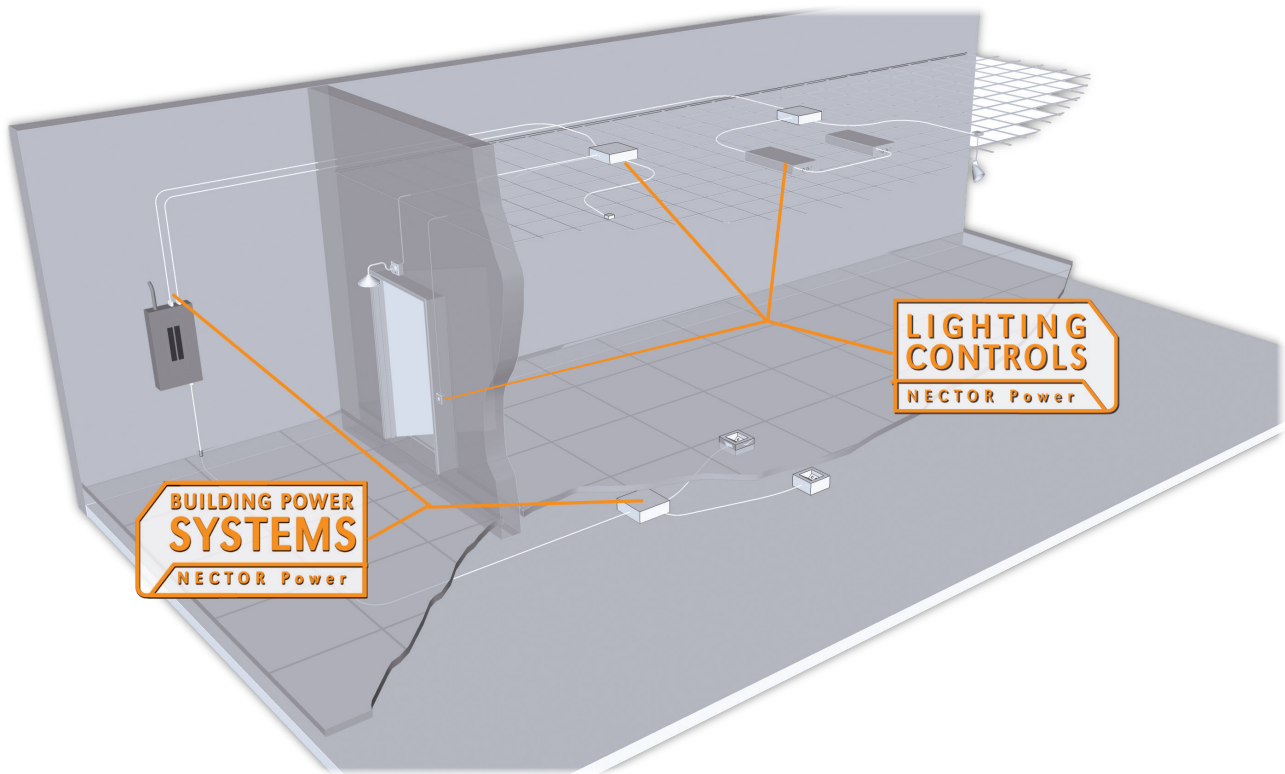
Pole configurations

- 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)



Benefits

- Reduce installation time, on-site labor cost and waste with a multifunctional modular system.
- Expand the flexibility and use of the connector with white or black connectors for distinct multiple applications
- Help eliminate the need for factory built cable assemblies with a more complete portfolio
- Simplify routing during installation with a circular form factor that requires less real estate
- Meet the requirement for a single knock out diameter for a multi position connector with an available 5,6,7 pole system
- Required IEC tool available to prevent inadvertent un-mating



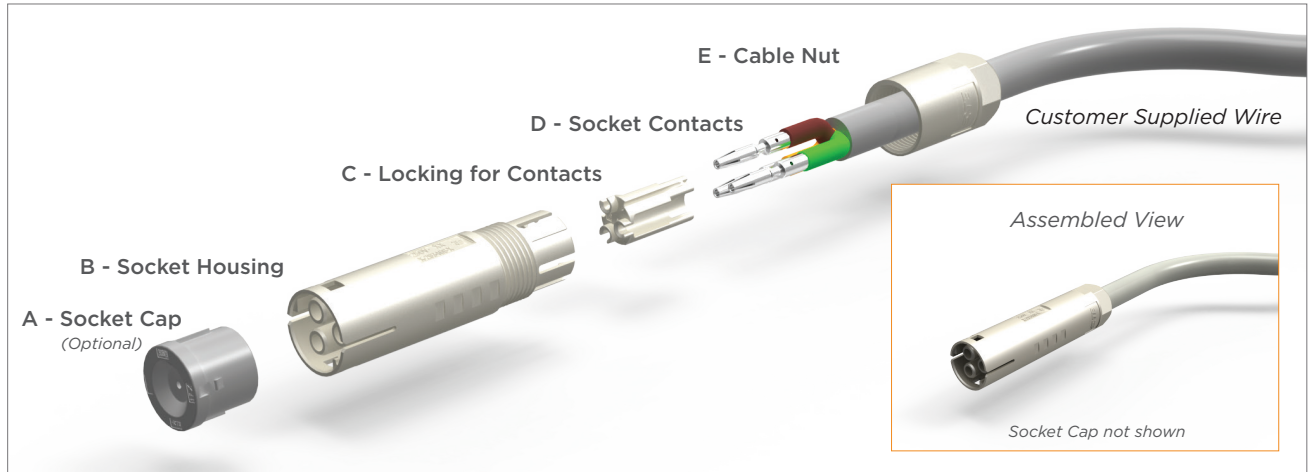
Building Power

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 it's 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.


3 Pole Socket Connector, Free Hanging




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

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

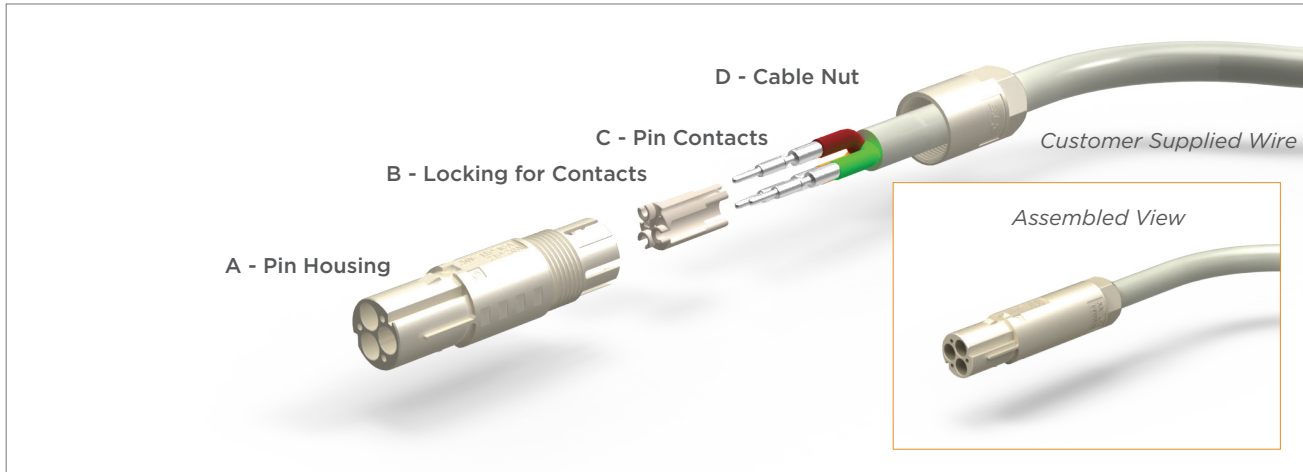
B - Socket Housing	Color	Keying Code	TE Part Number
	Natural	293468-1	A
		293468-2	B
		293468-3	C
		293468-4 *	D
		293468-5 *	E
		293468-6 *	F
	Black	1-293468-1	A
		1-293468-2	B
		1-293468-3	C
		1-293468-4 *	D
		1-293468-5 *	E
		1-293468-6 *	F
293468			


D - Socket Contacts	TE Part Number	TE Part Number
	293475-2	1.5 mm ²
	1-293475-2	2.5 mm ²
	2213265-5	14 AWG
	1-2213265-2	16-18 AWG
293475 - metric 2213265 - AWG		


E - Cable Nut	Color	TE Part Number	Cable Dia. Range (mm ²)
	Natural	293607-1	7.50 - 8.40
		293607-2	9.00 - 9.90
		293607-3	8.50 - 9.40
		293607-4	9.50 - 10.40
	Black	1-293607-1	7.50 - 8.40
		1-293607-2	9.00 - 9.90
		1-293607-3	8.50 - 9.40
		1-293607-4	9.50 - 10.40
293607			

* Coming Soon


3 Pole Pin Connector, Free Hanging




B - Socket Housing		Color	TE Part Number	Keying Code
 <p>293469</p>	Natural		293469-1	A
			293469-2	B
			293469-3	C
			293469-4 *	D
			293469-5 *	E
			293469-6 *	F
	Black		1-293469-1	A
			1-293469-2	B
			1-293469-3	C
			1-293469-4 *	D
			1-293469-5 *	E
			1-293469-6 *	F

D - Cable Nut		Color	TE Part Number	Cable Dia. Range (mm ²)
 <p>293607</p>	Natural		293607-1	7.50 - 8.40
			293607-2	9.00 - 9.90
			293607-3	8.50 - 9.40
			293607-4	9.50 - 10.40
	Black		1-293607-1	7.50 - 8.40
			1-293607-2	9.00 - 9.90
			1-293607-3	8.50 - 9.40
			1-293607-4	9.50 - 10.40

B - Locking for Contacts		Color	TE Part Number
 <p>293470</p>	Natural	293470-1	

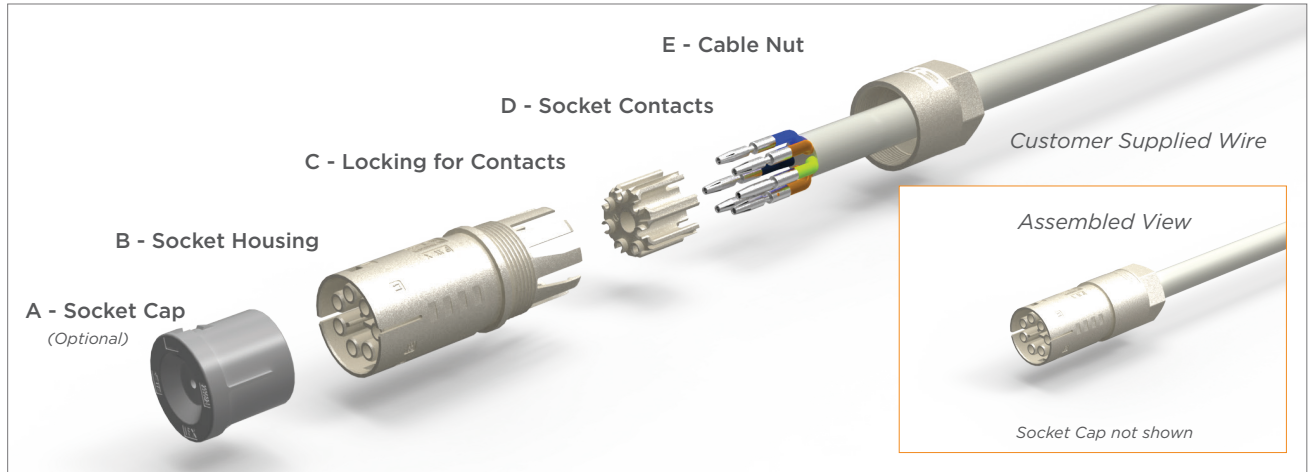
C - Pin Contacts		TE Part Number	Conductor Gauge
 <p>293476 - metric 2213266 - AWG</p>		293476-2	1.5 mm ²
		1-293476-2	2.5 mm ²
		2213266-5	14 AWG
		1-2213266-2	16-18 AWG


3 Pole T-Splitter Connector


T-Splitter		Color	TE Part Number	Keying Code
 <p>293611</p>	Natural		293611-1	A
			293611-2	B
			293611-3	C
			293611-4 *	D
			293611-5 *	E
			293611-6 *	F
	Black		1-293611-1	A
			1-293611-2	B
			1-293611-3	C
			1-293611-4 *	D
			1-293611-5 *	E
			1-293611-6 *	F


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5, 6 & 7 pole Socket Connector, Free Hanging




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

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

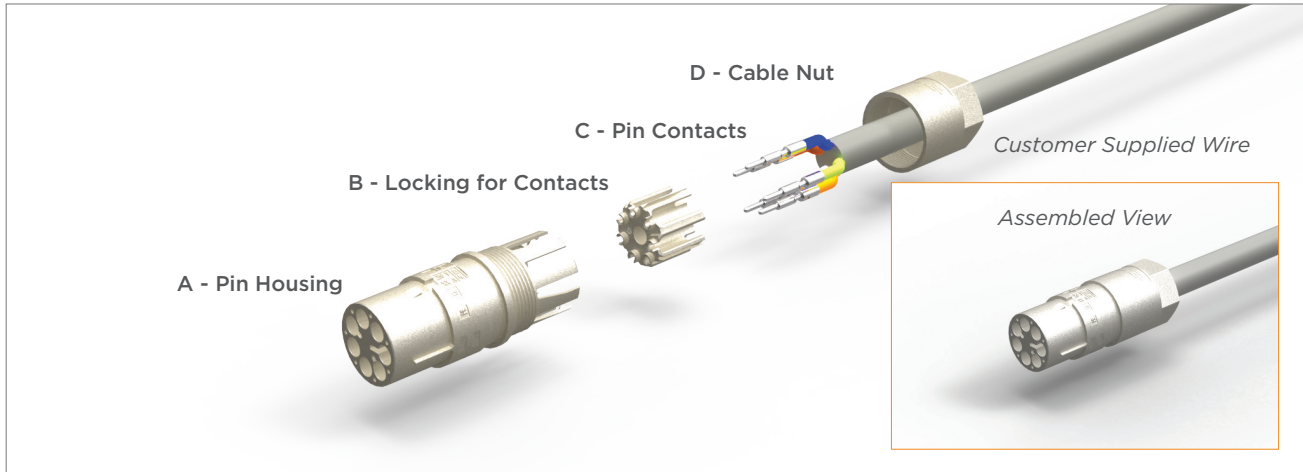
B - Socket Housing	
	293615 5 pole 293656 6 pole 293721 7 pole


D - Socket Contacts	TE Part Number	Conductor Gauge
	293475-2	1.5 mm ²
	1-293475-2	2.5 mm ²
	2213265-5	14 AWG
	1-2213265-2	16-18 AWG
293475 - metric 2213265 - AWG		


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


E - Cable Nut	Color	TE Part Number	Cable Size	Cable Dia. Range (mm ²)
	Natural	293660-1	6G x 1.5	9.60 - 9.80
		293660-2	6G x 2.5	11.00 - 11.20
		293660-3	5G x 2.5 7G x 1.5	11.90 - 13.40
		293660-4	6G x 2.5	7.50 - 7.70
		293660-5	7G x 2.5	14.00 - 15.50
		293660-6	5G x 1.5	9.70 - 11.20
	Black	1-293660-1	6G x 1.5	9.60 - 9.80
		1-293660-2	6G x 2.5	11.00 - 11.20
		1-293660-3	5G x 2.5 7G 1.5	11.90 - 13.40
		1-293660-4	6G x 1.5	7.50 - 7.70
		1-293660-5	7G x 2.5	14.00 - 15.50
		1-293660-6	5G x 1.5	9.70 - 11.20
293660				


5, 6 & 7 pole Socket Connector, Free Hanging




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

D - Cable Nut				
Color	TE Part Number	Cable Size	Cable Dia. Range (mm ²)	
Natural	293660-1	6G x 1.5	9.60 - 9.80	 293660
	293660-2	6G x 2.5	11.00 - 11.20	
	293660-3	5G x 2.5 7G x 1.5	11.90 - 13.40	
	293660-4	6G x 2.5	7.50 - 7.70	
	293660-5	7G x 2.5	14.00 - 15.50	
	293660-6	5G x 1.5	9.70 - 11.20	
Black	1-293660-1	6G x 1.5	9.60 - 9.80	
	1-293660-2	6G x 2.5	11.00 - 11.20	
	1-293660-3	5G x 2.5 7G 1.5	11.90 - 13.40	
	1-293660-4	6G x 1.5	7.50 - 7.70	
	1-293660-5	7G x 2.5	14.00 - 15.50	
	1-293660-6	5G x 1.5	9.70 - 11.20	

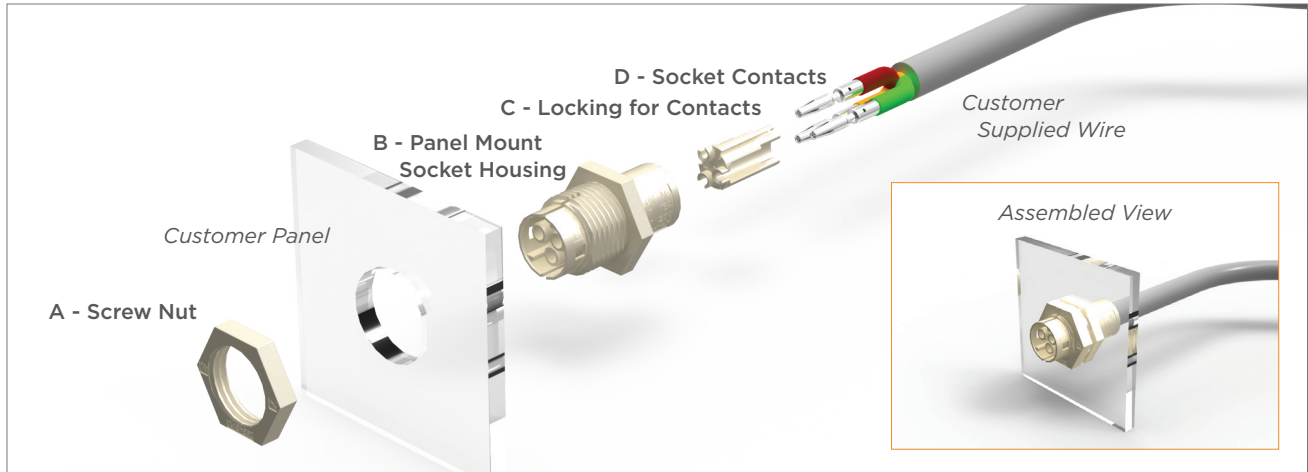
B - Locking for Contacts		Color	TE Part Number
 293658		Natural	293658-1


C - Pin Contacts		TE Part Number	Conductor Gauge
		293476-2	1.5 mm ²
293476 - metric 2213266 - AWG		1-293476-2	2.5 mm ²
		2213266-5	14 AWG
		1-2213266-2	16-18 AWG


5 Pole T-Splitter Connector

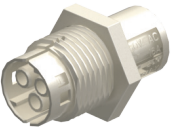
T-Splitter		Color	TE Part Number	Keying Code
 1879995		Natural	1879995-1	A
			1879995-2	B
			1879995-3	C
			1879995-4	D
			1879995-5	E
		Black	1-1879995-1	A
			1-1879995-2	B
			1-1879995-3	C
			1-1879995-4	D
			1-1879995-5	E


3 pole Panel Mount Socket Connector



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

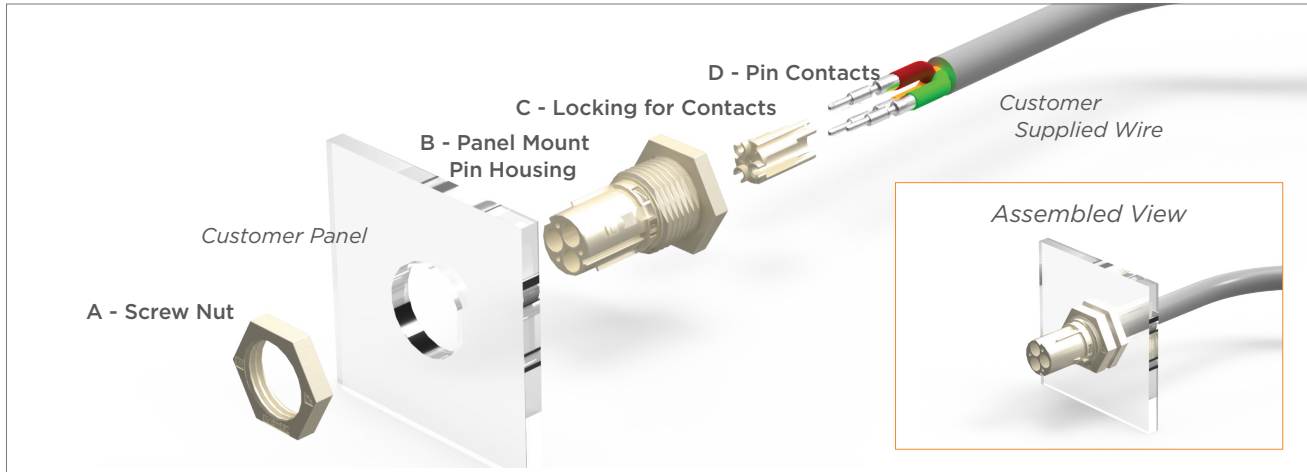
C - Locking for Contacts	Color	TE Part Number
 293470	Natural	293470-1


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


D - Socket Contacts	TE Part Number	Conductor Gauge
 293475 - metric 2213265 - AWG	293475-2	1.5 mm ²
	1-293475-2	2.5 mm ²
	2213265-5	14 AWG
	1-2213265-2	16-18 AWG

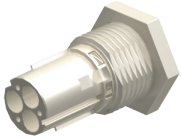
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3 Pole Panel Mount Pin Connector



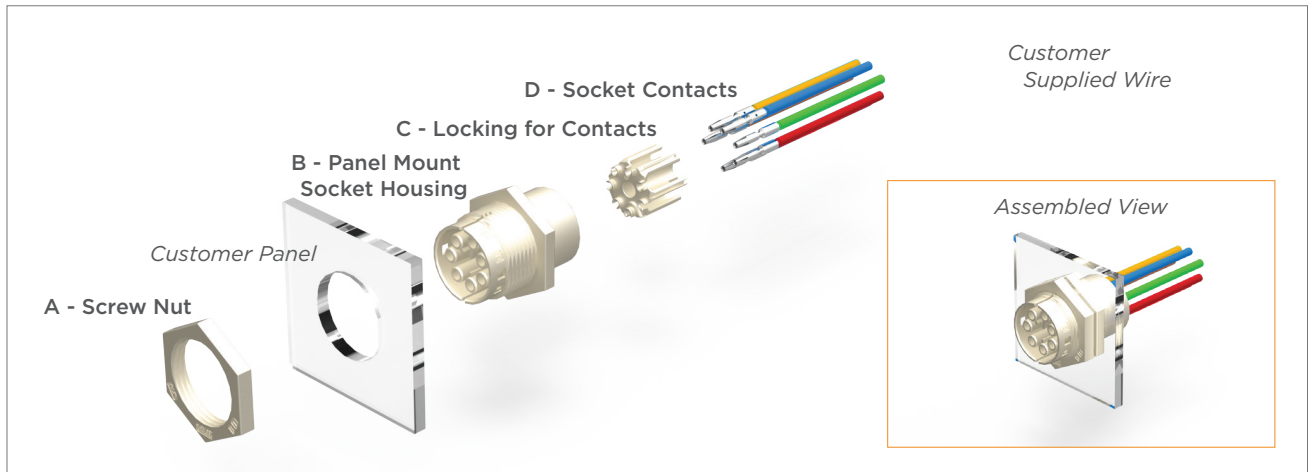
A - Screw Nut		TE Part Number	Color
 293481		293481-1	Natural
		1-293481-1	Black


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


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

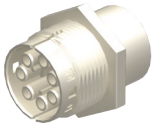
D - Pin Contacts		TE Part Number	Conductor Gauge
 293476 - metric 2213266 - AWG		293476-2	1.5 mm ²
		1-293476-2	2.5 mm ²
		2213266-5	14 AWG
		1-2213266-2	16-18 AWG


5, 6 & 7 pole Panel Mount Socket Connector



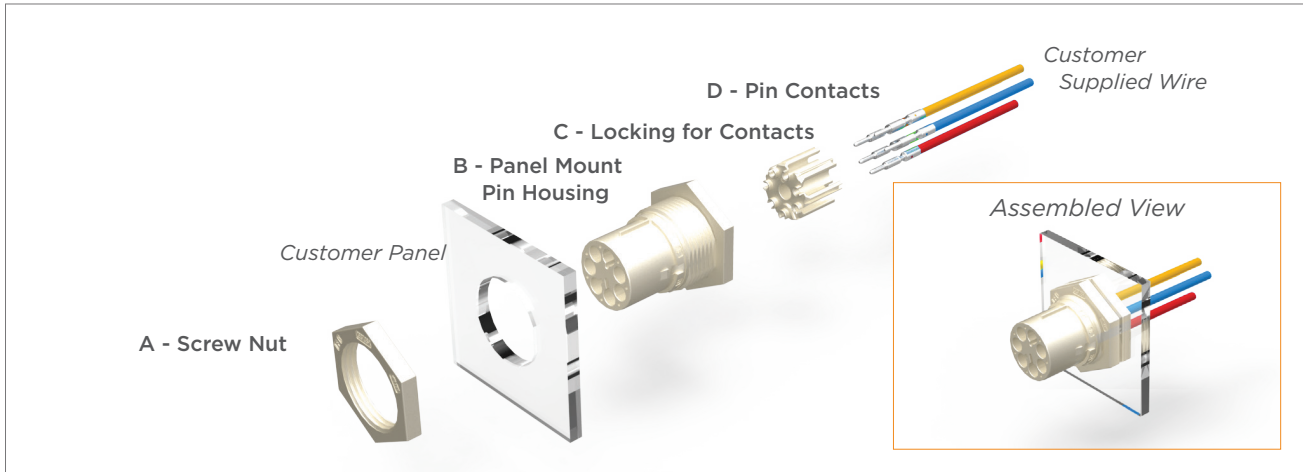
A - Screw Nut	TE Part Number	Color
	293708-1	Natural
	1-293708-1	Black
293708		


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


B - Panel Mount Socket Housing				
	293687	5 pole		
	293673	6 pole		
	293773	7 pole		
	TE Part Number 5 pole	TE Part Number 6 pole	TE Part Number 7 pole	Keying Code
Natural	293687-1		293773-1	A
	293687-2		293773-2	B
	293687-3	293673-3	293773-3	C
	293687-4	293673-4	293773-4	D
	293687-5	293673-5	293773-5	E
Black	1-293687-1		1-293773-1	A
	1-293687-2		1-293773-2	B
	1-293687-3	1-293673-3	1-293773-3	C
	1-293687-4	1-293673-4	1-293773-4	D
	1-293687-5	1-293673-5	1-293773-5	E


D - Socket Contacts	TE Part Number	Conductor Gauge
	293475-2	1.5 mm ²
	1-293475-2	2.5 mm ²
	2213265-5	14 AWG
	1-2213265-2	16-18 AWG
293475 - metric 2213265 - AWG		


5, 6 & 7 Pole Panel Mount Pin Connector



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		

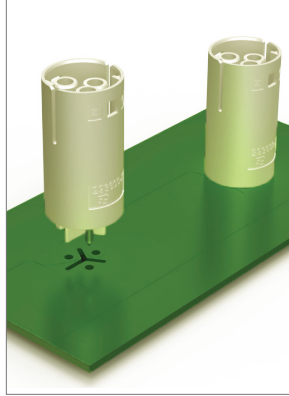
B - Panel Mount Pin Housing	
	293688 5 pole 293674 6 pole 293774 7 pole

D - Pin Contacts	TE Part Number	Conductor Gauge
	293476-2	1.5 mm ²
	1-293476-2	2.5 mm ²
	2213266-5	14 AWG
	1-2213266-2	16-18 AWG
293476 - metric 2213266 - AWG		

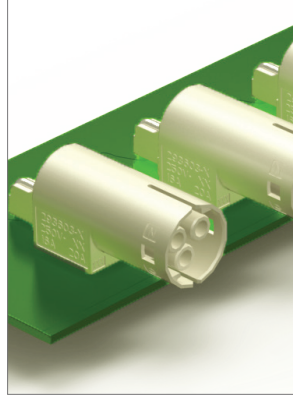
Color	TE Part Number 5 pole	TE Part Number 6 pole	TE Part Number 7 pole	Keying Code
Natural	293688-1		293774-1	A
	293688-2		293774-2	B
	293688-3	293674-3	293774-3	C
	293688-4	293674-4	293774-4	D
	293688-5	293674-5	293774-5	E
Black	1-293688-1		1-293774-1	A
	1-293688-2		1-293774-2	B
	1-293688-3	1-293674-3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

3 Pole PCB Mounted Socket & Pin Headers

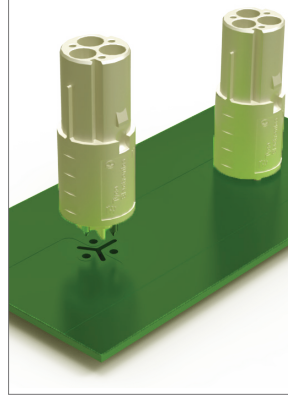
A - Vertical PCB Socket Header



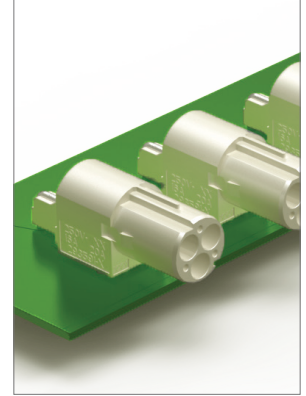
B - Horizontal PCB Socket Header





A - Vertical PCB Pin Header




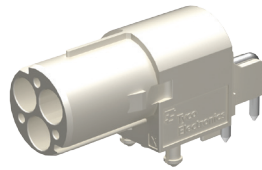
B - Horizontal PCB Pin Header



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

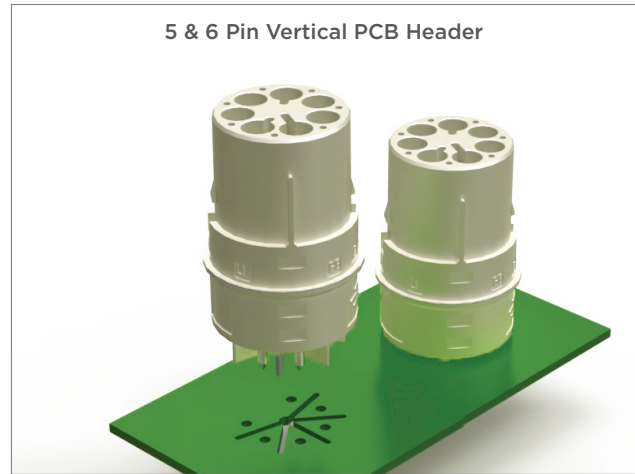
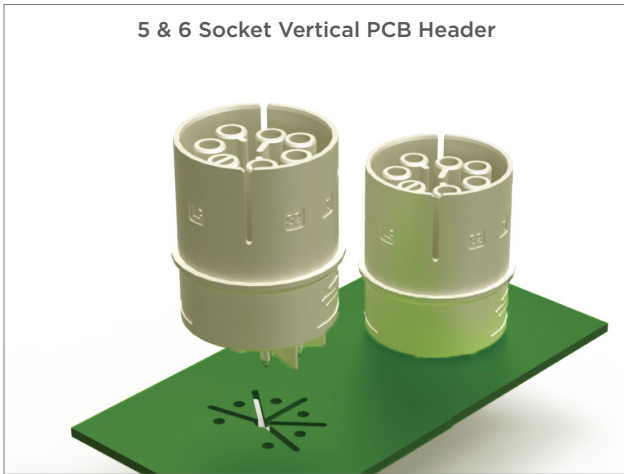
A - Vertical PCB Pin	Color	TE Part Number	Keying Code
 293590	Natural	293590-1	A
		293590-2	B
		293590-3	C
		293590-4 *	D
		293590-5 *	E
		293590-6 *	F

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


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

* Coming Soon

5 & 6 pole PCB Mounted Socket & Pin Headers




Vertical PCB Socket Header



293696 5 pole
293671 6 pole

TE Part Number 5 pole	TE Part Number 6 pole	Color	Keying 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

Vertical PCB Pin Header



293695 5 pole
293672 6 pole

TE Part Number 5 pole	TE Part Number 6 pole	Color	Keying 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

LET'S CONNECT

We make it easy to connect with our experts and are ready to provide all of the support you need. Call your local support number or visit www.te.com to chat with a Product Information Specialist.

Technical Support

te.com/support-center

FOR MORE INFORMATION

nectorpower.com

TE Technical Support Center

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Canada:	+1 (905) 475-6222
Mexico	+52 (0) 55-1106-0800
Latin/S. America:	+54 (0) 11-4733-2200
Germany:	+49 (0) 6251-133-1999
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France:	+33 (0) 1-3420-8686
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*as defined www.te.com/leadfree

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