



## **NECTOR S Line** lighting components

Flexible solutions for your lighting designs





The lighting industry is always changing. It is constantly in pursuit of more energy-efficient products with longer life-spans that can be used in different places under different circumstances. **TE Connectivity can assist developers, designers and innovators in gaining a head start in this competitive industry.** For over 60 years we have worked with lighting industry leaders providing them with strong competitive advantages. Today, with over 500,000 part numbers, we are a leader in passive electronic components. Tomorrow we can apply our expertise to your design and development programs.





## NECTOR S Line

The Nector S Line connector is a small, power-to-luminaire connector designed to meet the lighting industry's need for a compact, easy-to-install interconnect solution. This 7.5mm connector can easily fit in an 8 mm opening compared to other connectors that require much larger openings. The Nector S Line connector is ideal for applications where a power connection and coupling between lamps is needed. Targeted applications include lighting wiring in offices, kitchens, bathrooms, display cabinets, mountable lightings, shop and household furniture.

Whether it's showing you our value-added solutions or designing a new product; our commitment to advanced engineering and world-class manufacturing delivers innovation to advance your lighting project.

A grid of 20 jewelry display cases arranged in a 4x5 pattern. Each case contains a necklace on a mannequin bust. The necklaces vary in color and design, including multi-strand beaded necklaces, pearl necklaces, and necklaces with large pendants. The cases are illuminated from above, creating a soft glow around each piece of jewelry. The background is dark, making the jewelry stand out.

seeing



actual hole size  
fits a 7.5mm connector



# is believing

## Lighting solutions that increase sales

### Products need to stand out

Every product deserves the best presentation possible. Not only in a photograph used for an advertisement, but in its display at a store, a product fair or in the reseller's showroom. Most of the lighting featured in such product presentations should showcase the product in the most optimal way.

**THE PROBLEM :** An unreliable lighting connection can lead to light failure, which in turn can lead to poor product presentation.

**OUR SOLUTION :** A **reliable** lighting fixture with a proven connector system.

**THE END RESULT :** A **flexible**, high-quality fixture that provides more value through an integrated connector system.

### We can make your product stand out

Now you can have a plug-and-play interconnection system that easily conducts power anywhere. With the NECTOR S Line connector, you are no longer limited by the size and shape of a connector. The small, smart wiring solution can make the presentation of any product outstanding.



- Expand the power system and easily split power for two lamps
- Splitter has the function to switch power
- LEDs can be placed in the series using a splitter



Plug-and-play principle.

actual hole size  
fits a 7.5mm connector



# It's easy and reliable.

**Easy. Fast. Compact.**

It's our job to make lighting connectors easy to use and fast to implement. The compact NECTOR S Line connector allows you to think freely with your lighting design as its flexibility enables you to move fixtures around product displays for optimum lighting without worrying about any practical implications.

**Our connectors can make your lighting visualizations a reality.**



A modern kitchen with a curved ceiling and warm lighting. The kitchen features white cabinetry, a stainless steel range hood, and a countertop with various appliances like a coffee maker and toaster. A dining table with four white chairs is in the foreground. The lighting is a mix of recessed ceiling lights and under-cabinet warm lights. The text "lighting as you" is overlaid in white on the right side of the image.

lighting as you



actual hole size  
fits a 7.5mm connector



# imagined it

Flexible solutions with every design.

## The creative use of light sources

Every interior designer knows what proper lighting can do to a room, a desk or a cabinet. It can set a room's ambiance, tone a wall color, or apply an accent on just the right spot. Your wiring can be just as **flexible** as your imagination.

## Just give us 8mm

If you give us an opening as little as 8mm, the NECTOR S Line connector can fit there. You can power your lights just about anywhere: in a cabinet, inside kitchen furniture or in a headboard. The connector is easy to use, fast to implement and small enough to fit almost anywhere.



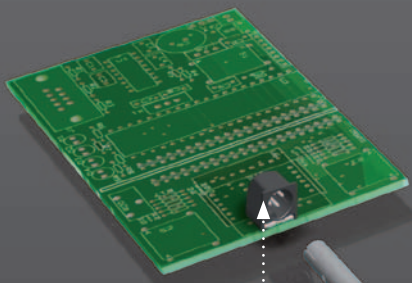
- Six-way splitter to power six lamps
- Optional switch function to switch distributor on or off



Better Atmosphere.





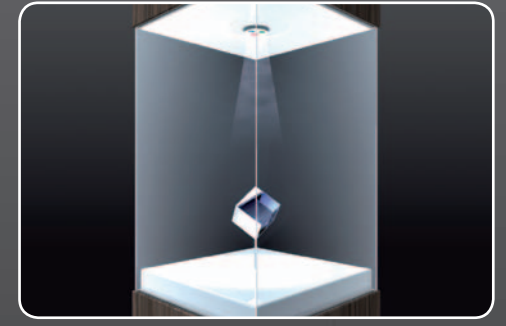


• SMD mount for soldering direct on drive

- Male-male cable
- Plug and play

• Extension cable optional

• Same SMD connector as on driver

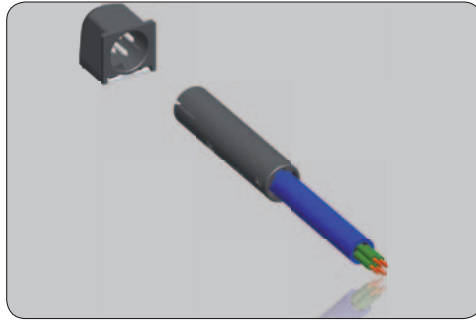


Color control.





actual hole size  
fits a 7.5mm connector

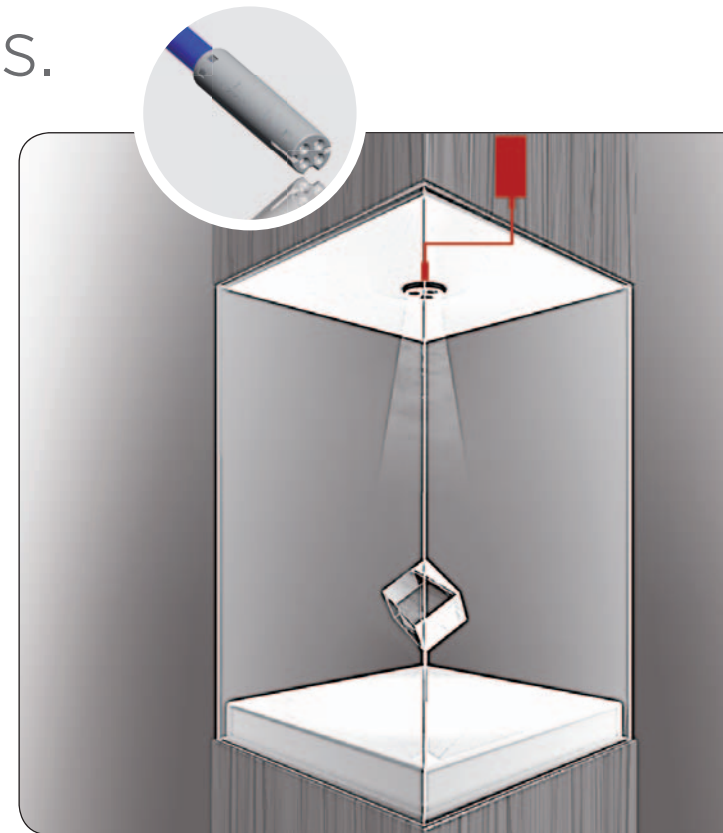


## 4 pole connector for control applications.

### If you need more control.

In many applications you like extra wires for control applications. This 4 pole connector fits through the same hole size diameter as the 2-pole NECTOR S line connector. The same small size is suitable for low voltage applications such as dimming or color control. The 4 pole series includes a SMD connector for pcb mounting and a male and female connector on wire.

Standard cable assemblies for coupling are available in 50 centimeter intervals up to 2.5 (meters) and from 2 feet up to 16 feet in two foot intervals.



A photograph of a grocery store aisle. In the foreground on the right, the handle of a shopping cart is visible, featuring a white grip with a blue accent. The cart's metal frame is partially visible. The aisle extends into the distance, with shelves on both sides filled with various products, including colorful bags of snacks and other packaged goods. The lighting is bright and even, typical of a supermarket. The text "small connectors," is overlaid in the center of the image in a white, sans-serif font.

small connectors,



actual hole size  
fits a 7.5mm connector



# optimal connectivity

## Freedom in energy distribution.

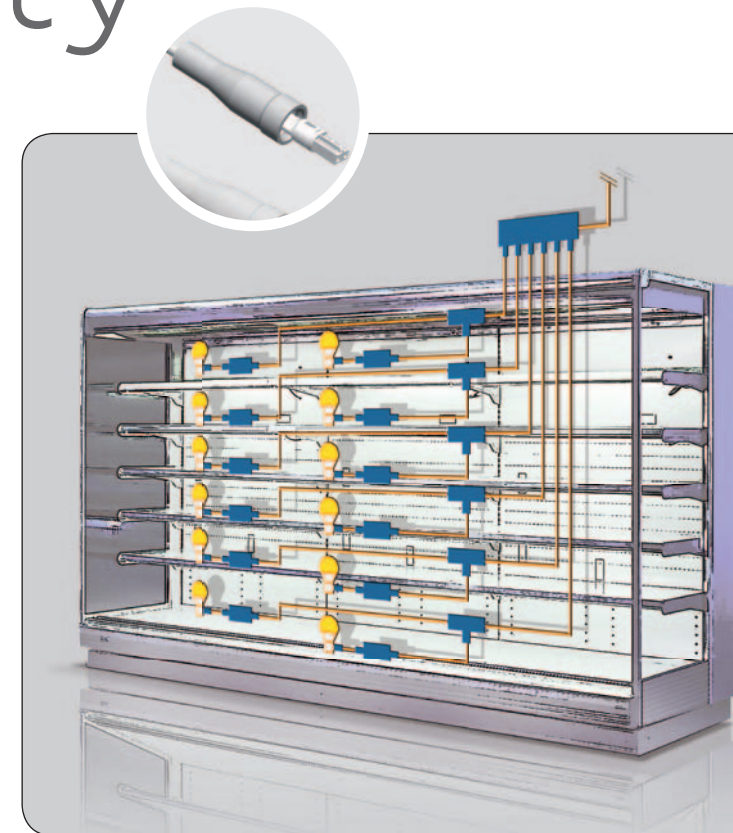
### Less use of space, energy, and design equals better lighting installations.

With the development of LEDs, lighting fixtures are now smaller in size and the possibilities of lighting are expanding. The NECTOR S Line connector can power small fixtures that are designed to fit into almost any space.

### Our connector goes places

Well balanced lighting inside a refrigerator or freezer system can increase sales. Products are more noticeable, more appealing and consequently they sell better. When you use the NECTOR S Line connector to power the lights inside your current conventionally-lit freezer or refrigerator case, you have the flexibility to quickly and easily change to a new LED lighting system.

In refrigerator or freezer applications, the sealed NECTOR S Line connector is easy to use. In both new and retrofit installations, its small size makes it almost invisible. The sealed NECTOR S Line connector system includes a range of easy-to-install, flexible products specifically designed for commercial refrigeration and freezer systems.



- Bus bar can be placed anywhere on the cable
- Multiple bus bars can be placed on the cable
- Sealed bus bar and sealed plug provide IP67 protection



Displays in a whole new light.



actual hole size  
fits a 7.5mm connector



## Upgrade your inventory.

### What you see is what you get

Customers want to take a good look at the products they are about to purchase. Supermarkets and department stores pay close attention to their overall use of lighting to ensure that the products on their shelves are noticeable. With refrigeration and freezer systems, good lighting is never easy to achieve. New systems are equipped with interior lighting that is optimized. Retrofitting an existing lighting system is a costly operation often not done unless other upgrades are needed.

### Upgrade now

When you use the NECTOR S Line connector to retrofit the lighting inside your current system, you have the opportunity to use the latest in interconnect and lighting technology. Not only will the products on your shelves look and sell better, but your store will look better too!





# NECTOR S Line Product details





## Cable Assembly Euro Style Cable

te.com/lighting

Cable Color ● Black ○ White



### Description

Description		S Line Plug to Outlet	S Line Plug to Pigtail	S Line Outlet to Pigtail
<b>250 VAC</b> HV-1  Max. 2.5 Amp.	0.5m	1-2083029-1 ●	1-2083031-1 ●	1-2083033-1 ●
	1m	1-2083029-2 ●	1-2083031-2 ●	1-2083033-2 ●
	1.5m	1-2083029-3 ●	1-2083031-3 ●	1-2083033-3 ●
	2m	1-2083029-4 ●	1-2083031-4 ●	1-2083033-4 ●
	0.5m	1-2083029-5 ○	1-2083031-5 ○	1-2083033-5 ○
	1m	1-2083029-6 ○	1-2083031-6 ○	1-2083033-6 ○
	1.5m	1-2083029-7 ○	1-2083031-7 ○	1-2083033-7 ○
	2m	1-2083029-8 ○	1-2083031-8 ○	1-2083033-8 ○
<b>250 VAC</b> HV-2 (switch)  Max. 2.5 Amp.	0.5m		2-2083031-1 ●	
	1m		2-2083031-2 ●	
	1.5m		2-2083031-3 ●	
	2m		2-2083031-4 ●	
	0.5m		2-2083031-5 ○	
	1m		2-2083031-6 ○	
	1.5m		2-2083031-7 ○	
	2m		2-2083031-8 ○	
<b>42 VAC</b> LV-1  Max. 7 Amp.	0.5m	1-2083030-1 ●	1-2083032-1 ●	1-2083034-1 ●
	1m	1-2083030-2 ●	1-2083032-2 ●	1-2083034-2 ●
	1.5m	1-2083030-3 ●	1-2083032-3 ●	1-2083034-3 ●
	2m	1-2083030-4 ●	1-2083032-4 ●	1-2083034-4 ●
	0.5m	1-2083030-5 ○	1-2083032-5 ○	1-2083034-5 ○
	1m	1-2083030-6 ○	1-2083032-6 ○	1-2083034-6 ○
	1.5m	1-2083030-7 ○	1-2083032-7 ○	1-2083034-7 ○
	2m	1-2083030-8 ○	1-2083032-8 ○	1-2083034-8 ○
<b>42 VDC</b> LV-2  Max. 7 Amp.	0.5m	2-2083030-1 ●	2-2083032-1 ●	2-2083034-1 ●
	1m	2-2083030-2 ●	2-2083032-2 ●	2-2083034-2 ●
	1.5m	2-2083030-3 ●	2-2083032-3 ●	2-2083034-3 ●
	2m	2-2083030-4 ●	2-2083032-4 ●	2-2083034-4 ●
	0.5m	2-2083030-5 ○	2-2083032-5 ○	2-2083034-5 ○
	1m	2-2083030-6 ○	2-2083032-6 ○	2-2083034-6 ○
	1.5m	2-2083030-7 ○	2-2083032-7 ○	2-2083034-7 ○
	2m	2-2083030-8 ○	2-2083032-8 ○	2-2083034-8 ○

	S Line 6 Way Distributor Pigtail	S Line 6 Way Distributor Pigtail (switchable)
1m	1-2083038-1 ●	
1m	1-2083038-2 ○	
1m		1-2083040-1 ●
1m		1-2083040-2 ○
1m	1-2083039-1 ●	1-2083041-1 ●
1m	1-2083039-2 ○	1-2083041-2 ○
1m	2-2083039-1 ●	2-2083041-1 ●
1m	2-2083039-2 ○	2-2083041-2 ○

	S Line Outlet to Europlug	S Line 6 Way distributor to Europlug	S Line 6 Way Distributor to Europlug (switchable)
1.8m	1-2083035-1 ●	1-2083036-1 ●	
1.8m	1-2083035-2 ○	1-2083036-2 ○	
1.8m			1-2083037-1 ●
1.8m			1-2083037-2 ○

actual hole size  
fits a 7.5mm connector



## Standard Components Euro Style

[te.com/lighting](http://te.com/lighting)



**Housing Color** ● Black ○ White ○ Light Grey ● Yellow T Transparent ● Red

Description	Bus Bar With Fixing Hook		Bus Bar Without Fixing Hook		Splitter Parallel		Splitter Serial		Outlet PCB Connector (straight version)		Outlet PCB Connector (straight angled version)		Plug PCB Connector (straight version)		Plug PCB Connector (straight angled version)	
	Part No.	Color	Part No.	Color	Part No.	Color	Part No.	Color	Part No.	Color	Part No.	Color	Part No.	Color	Part No.	Color
250 VAC HV-1 	293300-1	○	293300-3	○	293234-3	○			293313-1	○	293315-1	○	293308-1	○	293311-1	○
	293300-2	●	293300-4	●	293234-9	●			293313-2	●	293315-2	●	293308-2	●	293311-2	●
	293270-1 <sup>1</sup>	○	293270-3 <sup>1</sup>	○					293313-9 <sup>3</sup>	○	293315-6 <sup>3</sup>	○				
	293270-2 <sup>2</sup>	○	293270-4 <sup>2</sup>	○					1-293313-0 <sup>3</sup>	●	293315-7 <sup>3</sup>	●				
250 VAC HV-2 (switch) 									293313-8	●			293308-4	●	293311-4	●
42 VAC LV-1 	293300-9	○	1-293300-0	○	293234-7	○			293313-4	○	293315-4	○	293308-5	○	293311-5	○
42 VDC LV-2 	1-293300-1	●	1-293300-2	●	293234-8	●	293235-4 (LV2(LV2-LV2))	●	293313-5	●	293315-5	●	293308-6	●	293311-6	●
	293270-5 <sup>1</sup>		293270-7 <sup>1</sup>	●												
	293270-6 <sup>2</sup>		293270-8 <sup>2</sup>	●												

1: feed through sealed 2: end run sealed 3: gold plated contact

# NECTOR S Line Product details

<b>TOOLING</b>	Handtool for LP Crimp contacts (complete tool)	2-1579004-2
	Handgripper for Crimphead + Crimphead for LP Crimpcontacts (both parts needed)	2-1579005-1 3-1579021-8
	Applicator for ST Crimpcontacts	9-541803-2
	To be used on machine	1725950-6
	Handtool for ring clip	3-1579002-1
	Contact Extraction tool	1-1579007-4

tools for components on this page

## Loose Piece Components Euro style

NECTOR S Line is acc IEC 60320. For more technical specifications go to [te.com/lighting](http://te.com/lighting)



Description	Outlet Housing (to be used with pin contact)		Pin Contact	Tube H03 VVH2	Ring Clip	Plug Housing (to be used with socket contact)		Socket Contact	Tube H03 VVH2	Ring Clip	Panel Mount Outlet (to be used with pin contact)	Pin Contact
	<b>250 VAC HV-1</b>	1740262-1 ○	1740262-2 ●				1740259-1 ○	1740259-2 ●				
<b>250 VAC HV-2 (switch)</b>			1740335-1 (unplated)	1740260-1 ○	1740261-1 ○	1740259-5 ●		1740336-1 (unplated)	1740260-1 ○	1740261-1 ○		1740335-1 (unplated)
<b>42 VAC LV-1</b>	1740451-1 ○		1740335-4 (tin plated)	1740260-2 ●	1740261-2 ●		1740449-1 ○	1740336-4 (tin plated)	1740260-2 ●	1740261-2 ●		1740335-4 (tin plated)
<b>42 VDC LV-2</b>	1740451-2 ●		1740335-7 (gold plated)				1740449-2 ●	1740336-7 (gold plated)			293224-5 ○	1740335-7 (gold plated)
											293224-6 ●	

Description	6 Way Distributor Body		Cover	6 Way Distributor Body (switchable, to be used with coding ring)	Coding Ring	Cover	IP Boot (to be used on plug and outlet)	Wall Outlet Assembly (inclusive blind boot)	Wall Outlet Frame Assembly	Chassis Mount Frame (Panel thickness 0.5mm to 1.5mm)	Chassis Mount Housing Support (to be used with chassis mount frame)
	<b>250 VAC HV-1</b>	1740317-1 ○	1740317-3 ●		1740317-2 ○						
<b>250 VAC HV-2 (switch)</b>			1740315-1 ○	1740317-4 ●			293284-1		293286-1 ○	293302-1 ○	
<b>42 VAC LV-1</b>	1740317-7 ○		1740315-2 ●		1740316-1 ●	1740315-1 ○		293285-1 ○	293286-2 ○		293303-1 ○
<b>42 VDC LV-2</b>	1740317-9 ●			1740317-8 ○		1740315-2 ●			293286-3 ●		
				1-1740317-1 ●							



actual hole size  
fits a 7.5mm connector




## 4 Pole Version Euro style

NECTOR S Line is acc IEC 60320. For more technical specifications go to [te.com/lighting](http://te.com/lighting)



### Connectors

	 PCB	 Male (socket) Kit For Pins (to be used with pin contact)	 Female (plug) Kit For Socket (to be used with socket contact)
Key Gray		293412-3	293411-3
Key White	293415-1	293412-1	293411-1
Key Black	293415-2	293412-2	293411-2



Pin contact



Socket contact

Tool

	Pin contact	Socket contact	Tool
Loose piece	166293-1	166291-1	169341-1 or 91503-1
Small reel for reel fed Hand tool	5-166053-1	5-166051-1	169424-1
Large reel for applicator	166053-1	166051-1	SC-15 (on request)

### Cable Assembly - 4 Pole

#### Female - Female

0.5m	1-2083115-1	●
1m	1-2083115-2	●
1.5m	1-2083115-3	●
2m	1-2083115-4	●
2.5m	1-2083115-5	●
0.5m	2-2083115-1	○
1m	2-2083115-2	○
1.5m	2-2083115-3	○
2m	2-2083115-4	○
2.5m	2-2083115-5	○

### Cable Assembly - 4 Pole

#### Male - Female

2m	1-2083116-1	●
4m	1-2083116-2	●
2m	2-2083116-1	○
4m	2-2083116-2	○



actual hole size  
fits a 7.5mm connector












## Cable Assemblies UL Style Cable

Cable assemblies will be made with **SVT** cable



**Description**

**Cable Color** ○ White

Description		Cable Color						
		○ White	○ White	○ White	○ White	○ White	○ White	
		 S Line 6 Way Distributor Pigtail	 S Line 6 Way Distributor Pigtail (switchable)	 S Line Outlet to Powerplug	 S Line 6 Way Distributor to Powerplug	 NS Line 6 Way distributor to Powerplug (switchable)		
<b>125 VAC</b> switch lead HV-2 Max. 6 Amp. 	2ft							
	4ft							
	6ft							
	8ft						1-2083084-1 (HV2-6xHV3) ○	
	10ft							
	12ft							
	14ft							
<b>125 VAC</b> HV-3 Max. 6 Amp. 	2ft							
	4ft							
	6ft							
	8ft	1-2083078-1	○		1-2083082-1	○	1-2083083-1	○
	10ft							
	12ft							
	14ft							
<b>125 VAC</b> HV-4 Max. 6 Amp. 	2ft							
	4ft							
	6ft							
	8ft				2-2083082-1	○		
	10ft							
	12ft							
	14ft							
<b>42 VDC</b> LV-2 Max. 7 Amp. 	2ft							
	4ft							
	6ft							
	8ft	1-2083079-1	○	1-2083081-1 (HV2-6xLV2)	○			
	10ft							
	12ft							
	14ft							
16ft								



# NECTOR S Line Product details

<b>TOOLING</b>	Handtool for LP Crimp contacts (complete tool)	2-1579004-2
	Handgripper for Crimphead *	2-1579005-1
	Crimphead for LP Crimpcontacts (both parts needed)	3-1579021-8
	Applicator for ST Crimpcontacts	9-541803-2
	To be used on machine	1725950-6
	Handtool for ring clip	3-1579002-1
Contact Extraction tool	1-1579007-4	

tools for components on this page

## Standard Components UL Style

For more technical specifications go to [te.com/lighting](http://te.com/lighting)



Description



Splitter Parallel



Splitter Serial



Outlet PCB Connector  
straight version



Outlet PCB Connector  
straight angled version




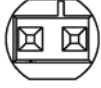



Plug PCB Connector  
straight version



Plug PCB Connector  
straight angled version

Housing Color  White

Description	Splitter Parallel	Splitter Serial	Outlet PCB Connector straight version	Outlet PCB Connector straight angled version	Plug PCB Connector straight version	Plug PCB Connector straight angled version
<b>125 VAC</b> HV-2 (switc 		293649-1 (HV4-(HV4/HV2)) ○ 293649-2 (LV2-(LV2/HV2)) ○	293653-1 ○	293652-1 ○	293655-1 ○	293654-1 ○
<b>125 VAC</b> HV-3 	293650-2 ○		293653-2 ○	293652-2 ○	293655-2 ○	293654-2 ○
<b>125 VAC</b> HV-4 	293650-1 ○	293649-1 (HV4-(HV4/HV2)) ○	293653-3 ○	293652-3 ○	293655-3 ○	293654-3 ○
<b>125 VAC</b> HV-5 	293650-3 ○		293653-4 ○	293652-4 ○	293655-4 ○	293654-4 ○
<b>42 VDC</b> LV-2 	293650-4 ○	293649-2 (LV2-(LV2/HV2)) ○	293653-5 ○	293652-5 ○	293655-5 ○	293654-5 ○

actual hole size  
fits a 7.5mm connector



## Loose Piece Components UL style

For more technical specifications go to [te.com/lighting](http://te.com/lighting)



Description	Outlet Housing (to be used with pin contact)	Pin Contact (tin plated)	Tube SVT Style Cable	Plug Housing (to be used with socket contact)	Socket Contact (tin plated)	Tube SVT Style Cable	Panel Mount Outlet (to be used with pin contact)	Pin Contact (tin plated)	Tube SPT-2 Style Cable (alternative for tube SVT)		
125 VAC HV-2 (switch)				293388-1	○						
125 VAC HV-3	293387-1	○		293388-2	○						
125 VAC HV-4	293387-2	○	293389-1	293388-2	○	293390-1	293359-1	293648-1	○	293389-1	293358-1
125 VAC HV-5	293387-3	○		293388-4	○						
42 VDC LV-2	293387-4	○		293388-5	○			293648-2	○		

Description	6 Way Distributor Body (switchable, to be used with coding ring)	Coding Ring	Cover	6 Way Distributor Body	Cover	Bridge Connector	
125 VAC HV-2 (switch)							
125 VAC HV-3	293651-2 (HV3 (6X) + HV2)	○		293651-1	○		
125 VAC HV-4		1740316-1	293587-1		293587-1	293647-1 (HV4-HV5)	○
125 VAC HV-5						293647-1 (HV4-HV5)	○
42 VDC LV-2	293651-4 (LV2 (6X) + HV2)	○		293651-3	○		



# NECTOR S Line Product details

## 4 Pole Version UL Style

For more technical specifications go to [te.com/lighting](http://te.com/lighting)

	 <b>PCB</b>	 <b>Male (socket) Kit for Pins</b> (to be used with pin contact)	 <b>Female (plug) Kit for Socket</b> (to be used with socket contact)
Key Gray		293703-3	293702-3
Key White	293415-1	293703-1	293702-1
Key Black	293415-2	293703-2	293702-2

Note that Grey key is different from Black & White

	 <b>Pin Contact</b>	 <b>Socket Contact</b>	<b>Tool</b>
Loose piece	166293-1	166291-1	169341-1 or 91503-1
Small reel for reel fed Hand tool	5-166053-1	5-166051-1	169424-1
Large reel for applicator	166053-1	166051-1	SC-15 (on request)

<b>Cable Assembly - 4 pole</b>	<b>Female - Female</b>	
2ft	1-2083135-1	●
4ft	1-2083135-2	●
8ft	1-2083135-3	●
12ft	1-2083135-4	●
16ft	1-2083135-5	●
2ft	2-2083135-1	○
4ft	2-2083135-2	○
8ft	2-2083135-3	○
12ft	2-2083135-4	○
16ft	2-2083135-5	○

	<b>Male - Female</b>	
8ft	1-2083136-1	●
12ft	1-2083136-2	●
8ft	2-2083136-1	○
12ft	2-2083136-2	○



actual hole size  
fits a 7.5mm connector



## TE Connectivity Assembly Instructions

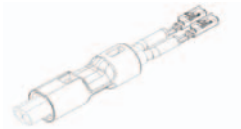
[te.com/lighting](http://te.com/lighting)

### Assembly Instructions Euro Style



**Step 1**

Slide the tube on the cable.



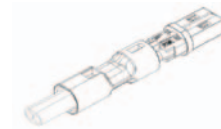
**Step 2**

Crimp the contacts on the wire.



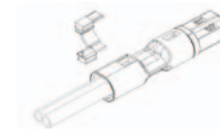
**Step 3**

Slide the housing on the contacts.



**Step 4**

Slide the tube on the housing.



**Step 5**

Position the ringclip on the tube and push.



**Ready!**

Remove the ringclip strain.

### Assembly Instructions UL Style SVT



**Step 1**

Slide the tube on the cable.



**Step 2**

Crimp the contacts on the wire.



**Step 3**

Slide the housing on the contacts.



**Step 4**

Slide the tube on the housing.

### Technical Documents : Nector S Line

	Euro style	UL style
Product specification	108-94018	108-20294
Application specification	114-18751	114-20140
Approvals	DIN EN IEC 60320 (VDE)	UL1977

### Assembly Instructions SPT-2



**Step 1**

Slide the tube on the cable.



**Step 2**

Crimp the contacts on the wire.



**Step 3**

Slide the housing on the contacts.



**Step 4**

Slide the tube on the housing.

## FOR MORE INFORMATION

[te.com/lighting](http://te.com/lighting)

### TE Technical Support

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Part numbers in this brochure are RoHS Compliant\*, unless marked otherwise.

\*as defined at [te.com/leadfree](http://te.com/leadfree)

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