

# **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.





# is believing

## Lighting solutions that increase sales

#### Products need to stand out

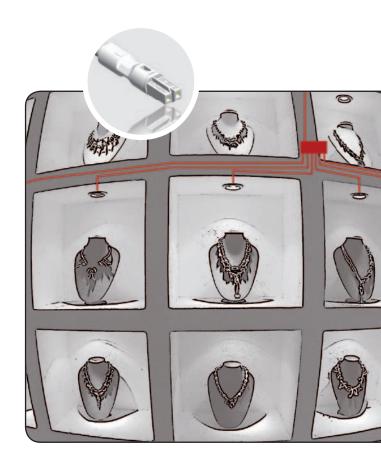
Every product deserves the best presentation possible. Not only in a photograph used for an advertisement, but in its display at a store, a product fair or in the reseller's showroom. Most of the lighting featured in such product presentations should showcase the product in the most optimal way.

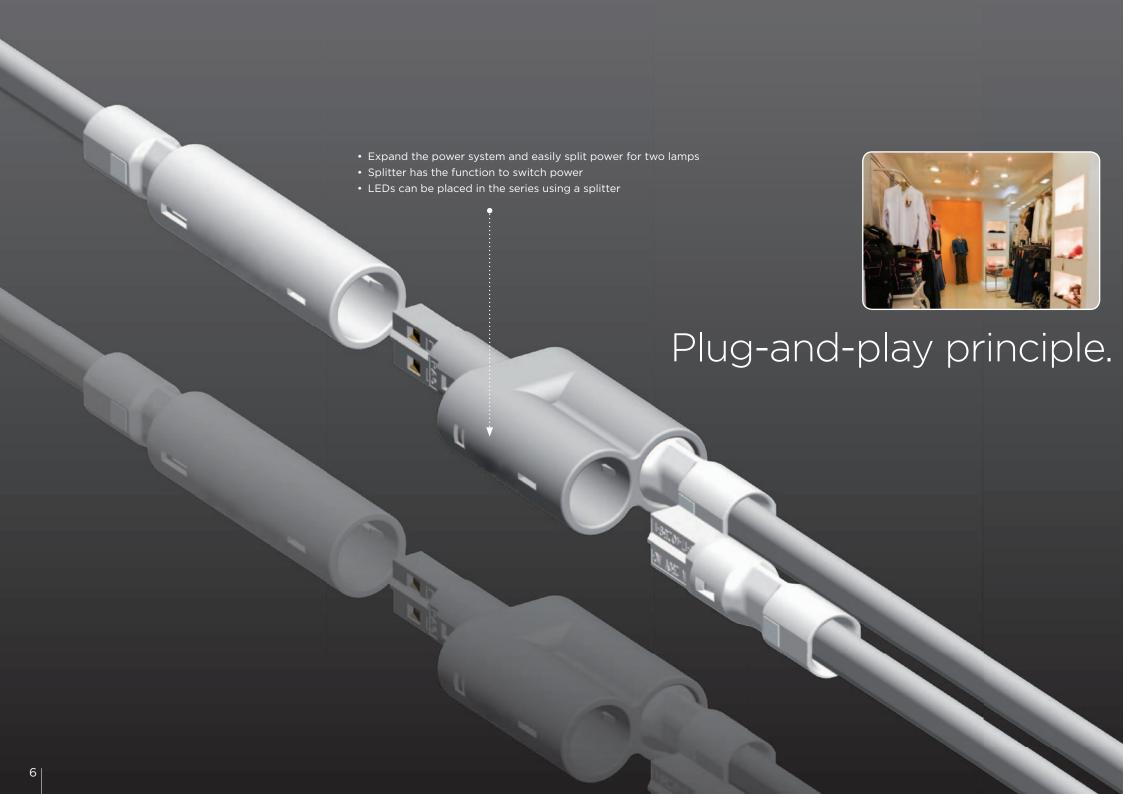
**THE PROBLEM:** An unreliable lighting connection can lead to light failure, which in turn can lead to poor product presentation.

**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

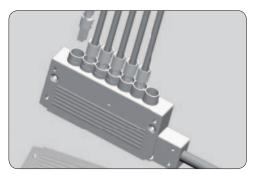
Now you can have a plug-and-play interconnection system that easily conducts power anywhere. With the NECTOR S Line connector, you are no longer limited by the size and shape of a connector. The small, smart wiring solution can make the presentation of any product outstanding.











# 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.







# imagined it

## Flexible solutions with every design.

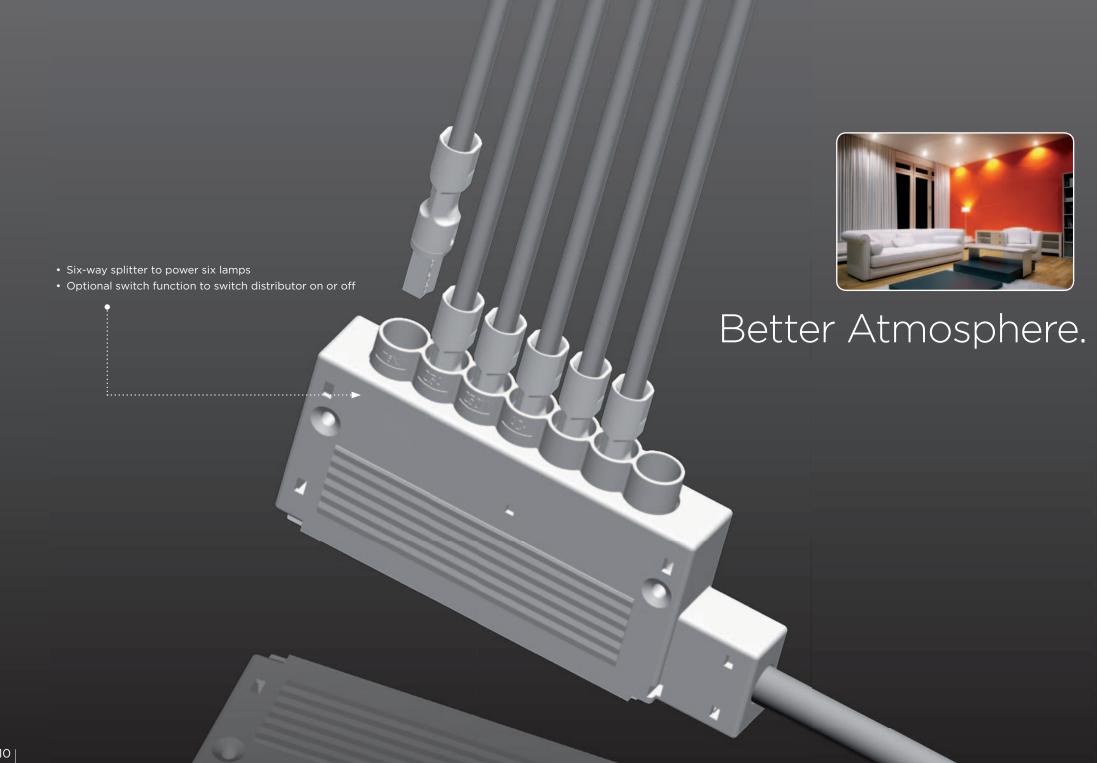
#### The creative use of light sources

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.







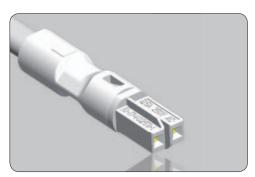










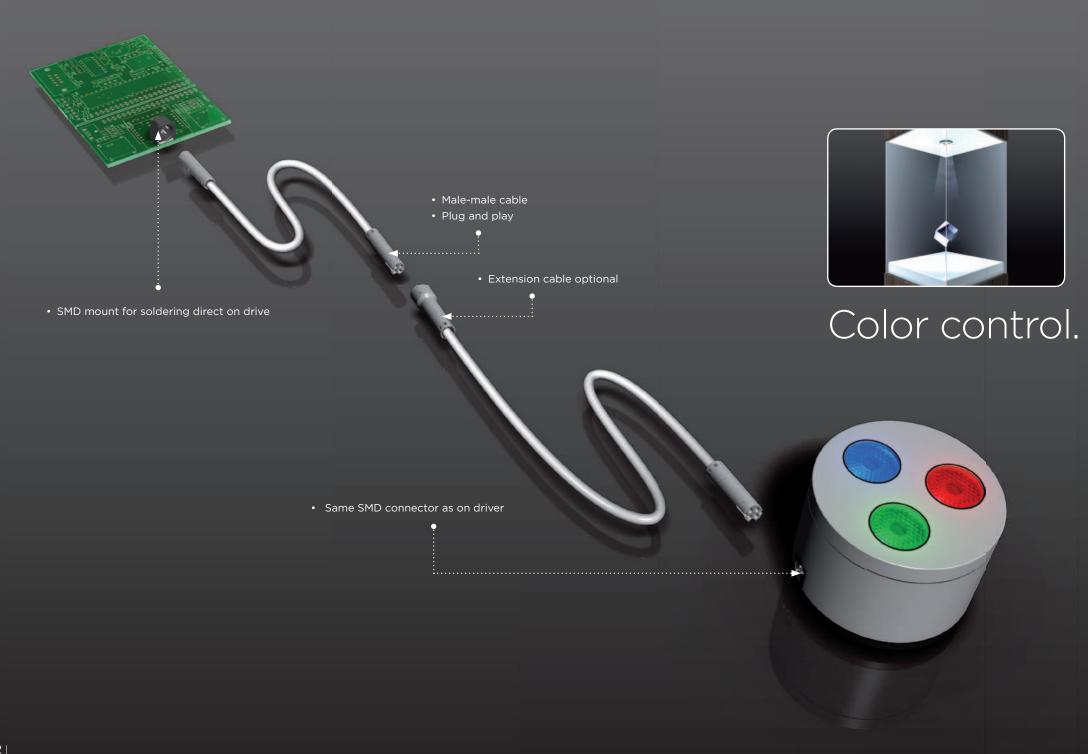


# Electricity where you need it.

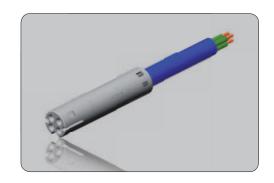
#### It's the little things

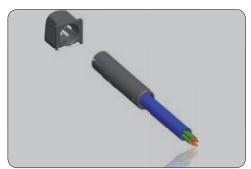
The overall atmosphere of any interior lighting design can change because of a 7.5mm connector. Those few millimeters can give you unparalleled freedom to power your lights. Whether it is 250V, 125V or a low voltage, the plug-and-play connector can expand a lighting system beyond its wall outlet.









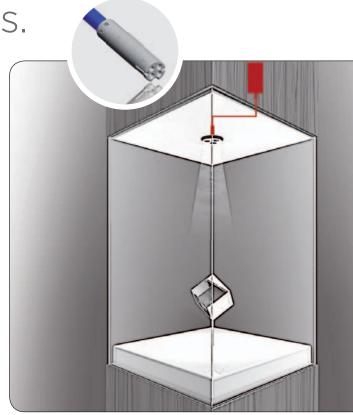


4 pole connector for control applications.

#### 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.







# optimal connectivity

## Freedom in energy distribution.

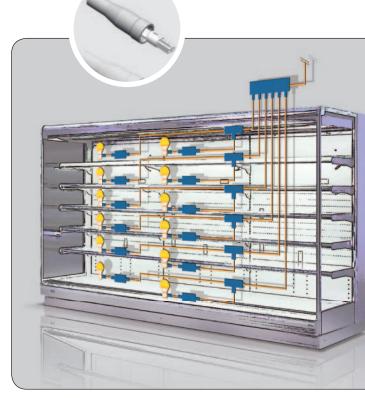
#### Less use of space, energy, and design equals better lighting installations.

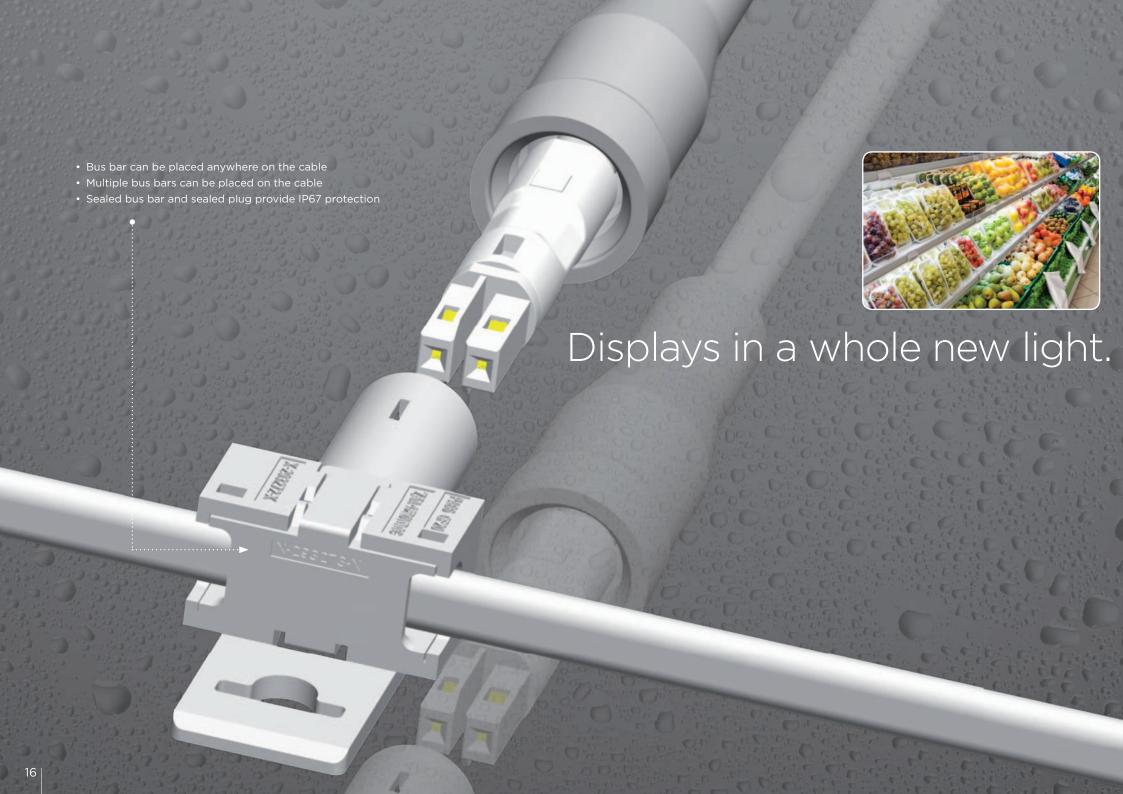
With the development of LEDs, lighting fixtures are now smaller in size and the possibilities of lighting are expanding. The NECTOR S Line connector can power small fixtures that are designed to fit into almost any space.

#### **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.



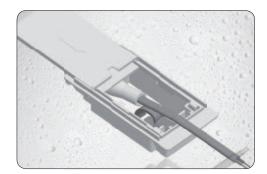














# Upgrade your inventory.

#### 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!



## Cable Assembly **Euro Style** Cable

## te.com/lighting

Cable Color ● Black ○ White

		Roger (4C)	E	銀砂匠		-537-)	
Description		S Line Plug to Outle	t	S Line Plug to Pigta	iI	S Line Outlet to Pigt	ail
	0.5m	1-2083029-1	•	1-2083031-1	•	1-2083033-1	
250 VAC	1m	1-2083029-2	•	1-2083031-2	•	1-2083033-2	
HV-I	1.5m	1-2083029-3		1-2083031-3		1-2083033-3	
AA	2m	1-2083029-4	•	1-2083031-4	•	1-2083033-4	
	0.5m	1-2083029-5	0	1-2083031-5	0	1-2083033-5	0
	1m	1-2083029-6	0	1-2083031-6	0	1-2083033-6	0
Max. 2.5 Amp.	1.5m	1-2083029-7	0	1-2083031-7	0	1-2083033-7	0
	2m	1-2083029-8	0	1-2083031-8	0	1-2083033-8	0
050.1/4.0	0.5m			2-2083031-1	•		
250 VAC HV-2 (switch)	1m			2-2083031-2	•		
11V-2 (SWILCH)	1.5m			2-2083031-3	•		
	2m			2-2083031-4	•		
	0.5m			2-2083031-5	0		
	1m			2-2083031-6	0		
Max. 2.5 Amp.	1.5m			2-2083031-7	0		
	2m			2-2083031-8	0		
40.144.0	0.5m	1-2083030-1		1-2083032-1		1-2083034-1	
<b>42 VAC</b>	1m	1-2083030-2	•	1-2083032-2	•	1-2083034-2	
LV-1	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	0	1-2083032-5	0	1-2083034-5	
	1m	1-2083030-6	0	1-2083032-6	0	1-2083034-6	
Max. 7 Amp.	1.5m	1-2083030-7	0	1-2083032-7	0	1-2083034-7	
	2m	1-2083030-8	0	1-2083032-8	0	1-2083034-8	
42 VDC	0.5m	2-2083030-1	•	2-2083032-1	•	2-2083034-1	
42 VDC LV-2	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	0	2-2083032-5	0	2-2083034-5	
	1m	2-2083030-6	0	2-2083032-6	0	2-2083034-6	
Max. 7 Amp.	1.5m	2-2083030-7	0	2-2083032-7	0	2-2083034-7	
	2m	2-2083030-8	0	2-2083032-8	0	2-2083034-8	

	S Line 6 Way Distribut Pigtail	or	S Line 6 Way Distribut Pigtail (switchable)	or
1m	1-2083038-1			
1m	1-2083038-2	0		
1m			1-2083040-1	•
1m			1-2083040-2	0
1m	1-2083039-1	•	1-2083041-1	
1m	1-2083039-2	0	1-2083041-2	0
1	0.0007070.1		0.00070415	
1m 1m	2-2083039-1 2-2083039-2	0	2-2083041-1 2-2083041-2	0
IIII	2-2083039-2	U	2-2083041-2	U

	S Line Outlet to Europl	S Line 6 Way distribut to Europlug	or	S Line 6 Way Distributor to Europlug (switchable)				
1.8m	1-2083035-1	•	1-2083036-1					
1.8m	1-2083035-2	0	1-2083036-2	0				
1.8m					1-2083037-1	•		
1.8m					1-2083037-2	0		



## Standard Components **Euro Style**

## te.com/lighting

Description	Bus Bar With Fixin	g Hook	Bus Bar Witho Fixing Hook		Splitter Parall	el	Splitter Serial		Outlet PCB Conn (straight versic	ector	Outlet PCB Conn (straight angled ve	nector	Plug PCB Conn (straight version	ector	T Transparent  Plug PCB Conn. (straight angled v	ector
250 VAC	293300-1	0	293300-3	0	293234-3	0			293313-1	0	293315-1	0	293308-1	0	293311-1	0
HV-I	293300-2	•	293300-4	•	293234-9	•			293313-2	•	293315-2	•	293308-2	•	293311-2	•
	293270-11	0	293270-31	0					293313-9³	0	293315-6³	0				
	293270-2²	0	293270-4²	0					1-293313-0³	•	293315-7³	•				
250 VAC HV-2 (switch)									293313-8	•			293308-4	•	293311-4	•
42 VAC	293300-9	0	1-293300-0	0	293234-7	0			293313-4	0	293315-4	0	293308-5	0	293311-5	0
<b>42 VDC</b>	1-293300-1	0	1-293300-2	0	293234-8	0	293235-4 (LV2(LV2-LV2))	0	293313-5	0	293315-5	0	293308-6	0	293311-6	0
LV-2	293270-51		293270-71	0												
	293270-6²		293270-8²	0												

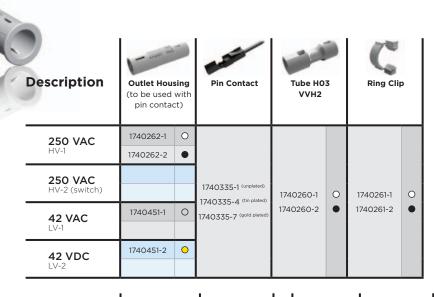
1: feed through sealed 2: end run sealed 3: gold plated contact

Handtool for LP (rimp contacts (complete tool) 2-1579004-2
Handgripper for Crimphead + 2-1579005-1
Crimphead for LP (rimpcontacts (both parts needed) 3-1579021-8
Applicator for ST (rimpcontacts 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

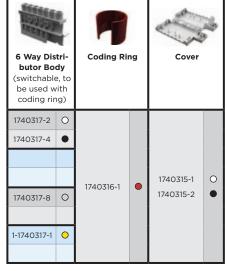
NECTOR S Line is acc IEC 60320. For more technical specifications go to **te.com/lighting** 

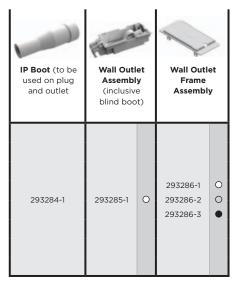


Plug Housing (to be used with socket contact)		Socket Contact	Tube H0 VVH2	3	Ring Cli	p
1740259-1	0					
1740259-2	•					
1740259-5	•					
		1740336-1 (unplated) 1740336-4 (tin plated)	1740260-1	0	1740261-1	0
1740449-1	0	1740336-7 (gold plated)	1740260-2	•	1740261-2	•
1740449-2	0					

Panel Moun Outlet (to b used with pi contact)	e	Pin Contact
		1740335-1 (unplated) 1740335-4 (tin plated) 1740335-7 (gold plated)
293224-5	0	
293224-6	•	

Description	6 Way Distributor B	ody	Cover	767
250 VAC	1740317-1	0		
HV-1	1740317-3	•		
250 VAC				
HV-2 (switch)			1740315-1	0
42 VAC	1740317-7	0	1740315-2	•
LV-1				
42 VDC	1740317-9	0		
LV-2				

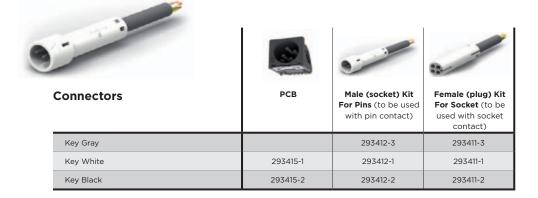




Chassis Mo Frame (Panel thic ness 0.5m to 1.5mm	:k- m	Chassi Mou Housing Su port (to be u with chass mount fram	<b>p-</b> sed is
293302-1	0	293303-1	0

## 4 Pole Version Euro style

### NECTOR S Line is acc IEC 60320. For more technical specifications go to **te.com/lighting**



	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 O
1m	2-2083115-2 O
1.5m	2-2083115-3 O
2m	2-2083115-4 O
2.5m	2-2083115-5 O

Cable Assembly - 4 Pole	Male - Female	
2m	1-2083116-1	
4m	1-2083116-2	•
2m	2-2083116-1	0
4m	2-2083116-2	0

## Cable Assemblies **UL Style** Cable

te.com/lighting

Cable assemblies will be made with SPT-2 and SVT cable

	133	,											able Color C	) White
					SPT-2						SVT			
	Description		#6965	•••	最小时	_	-250 - )   -		RGBS	E	量争区		-:MI-)  -	
	·		S Line Plug to Outle	t	S Line Plug to Pigta	nil	S Line Outlet to Pigt	tail	S Line Plug to Outlet		S Line Plug to Pigtai		S Line Outlet to Pig	gtail
45		2ft			2181148-1	0					2-2083074-1	0		
	125 VAC switch lead	4ft			2181148-2	0					2-2083074-2	0		
	HV-2 Max. 6 Amp.	6ft			2181148-3	0					2-2083074-3	0		
		8ft			2181148-4	0					2-2083074-4	0		
		10ft			2181148-5	0					2-2083074-5	0		
		12ft			2181148-6	0					2-2083074-6	0		
		14ft			2181148-7	0					2-2083074-7	0		
_		16ft			2181148-8	0					2-2083074-8	0		
		2ft	2181143-1	0	2181193-1	0	2181196-1	0	1-2083073-1	0	1-2083075-1	0	1-2083077-1	0
	<b>125 VAC</b> HV-3	4ft	2181143-2	0	2181193-2	0	2181196-2	0	1-2083073-2	0	1-2083075-2	0	1-2083077-2	
	Max. 6 Amp.	6ft	2181143-3	0	2181193-3	0	2181196-3	0	1-2083073-3	0	1-2083075-3	0	1-2083077-3	0
		8ft	2181143-4	0	2181193-4	0	2181196-4	0	1-2083073-4	0	1-2083075-4	0	1-2083077-4	0
		10ft	2181143-5	0	2181193-5	0	2181196-5	0	1-2083073-5	0	1-2083075-5	0	1-2083077-5	_
		12ft	2181143-6	0	2181193-6	0	2181196-6	0	1-2083073-6	0	1-2083075-6	0	1-2083077-6	
		14ft	2181143-7	0	2181193-7	0	2181196-7	0	1-2083073-7	0	1-2083075-7	0	1-2083077-7	0
_		16ft	2181143-8	0	2181193-8	0	2181196-8	0	1-2083073-8	0	1-2083075-8	0	1-2083077-8	0
		2ft	2181191-1	0	2181194-1	0	2181197-1	0	1-2083072-1	0	1-2083074-1	0	1-2083076-1	0
	<b>125 VAC</b> ∺∨-4	4ft	2181191-2	0	2181194-2	0	2181197-2	0	1-2083072-2	0	1-2083074-2	0	1-2083076-2	
	Max. 6 Amp.	6ft	2181191-3	0	2181194-3	0	2181197-3	0	1-2083072-3	0	1-2083074-3	0	1-2083076-3	0
		8ft	2181191-4	0	2181194-4	0	2181197-4	0	1-2083072-4	0	1-2083074-4	0	1-2083076-4	
		10ft	2181191-5	0	2181194-5	0	2181197-5	0	1-2083072-5	0	1-2083074-5	0	1-2083076-5	
		12ft	2181191-6	0	2181194-6	0	2181197-6	0	1-2083072-6	0	1-2083074-6	0	1-2083076-6	
		14ft	2181191-7	0	2181194-7	0	2181197-7	0	1-2083072-7	0	1-2083074-7	0	1-2083076-7	0
_		16ft	2181191-8	0	2181194-8	0	2181197-8	0	1-2083072-8	0	1-2083074-8	0	1-2083076-8	
	40.1/2.0	2ft	2181192-1	0	2181195-1	0	2181198-1	0	2-2083073-1	0	2-2083075-1	0	2-2083077-1	
	<b>42 VDC</b> LV-2	4ft	2181192-2	0	2181195-2	0	2181198-2	0	2-2083073-2	0	2-2083075-2	0	2-2083077-2	
	Max. 7 Amp.	6ft	2181192-3	0	2181195-3	0	2181198-3	0	2-2083073-3	0	2-2083075-3	0	2-2083077-3	_
		8ft	2181192-4	0	2181195-4	0	2181198-4	0	2-2083073-4	0	2-2083075-4	0	2-2083077-4	
		10ft	2181192-5	0	2181195-5	0	2181198-5	0	2-2083073-5	0	2-2083075-5	0	2-2083077-5	
		12ft	2181192-6	0	2181195-6	0	2181198-6	0	2-2083073-6	0	2-2083075-6	0	2-2083077-6	0
		14ft	2181192-7	0	2181195-7	0	2181198-7	0	2-2083073-7	0	2-2083075-7	0	2-2083077-7	0
_		16ft	2181192-8	0	2181195-8	0	2181198-8	0	2-2083073-8	0	2-2083075-8	0	2-2083077-8	0



## Cable Assemblies **UL Style** Cable

	Cable asse	emblies will be	ma	ade with <b>SVT</b> o	cab	le			_		
										able Color O Wh	ite
			=		=		ID 20		Œ		Œ
Description		S Line 6 Way Distributor Pigtail		S Line 6 Way Distributo Pigtail (switchable)	r	S Line Outlet to Powerp	lug	S Line 6 Way Distributo to Powerplug	or	NS Line 6 Way distributo to Powerplug (switchable)	r
125 VAC	2ft										
switch lead	4ft										
HV-2 Max. 6 Amp.	6ft 8ft			1-2083080-1 (HV2-6xHV3)	0					1-2083084-1 (HV2-6xHV3)	
	10ft			1-2063060-1						1-2063064-1 ****	
	12ft										
	14ft										
	16ft										
	2ft										
<b>125 VAC</b> HV-3	4ft										
Max. 6 Amp.	6ft										
	8ft	1-2083078-1	0			1-2083082-1	0	1-2083083-1	0		
	10ft										
	12ft										
	14ft										
	16ft										
125 VAC	2ft										
<b>125 VAC</b> ⊢V-4	4ft 6ft										
Max. 6 Amp.	8ft					2-2083082-1	0				
	10ft					2 2003002-1					
( <b>           </b>	12ft										
	14ft										
	16ft										
	2ft										
42 VDC	4ft										
LV-2 Max. 7 Amp.	6ft										
(III)	8ft	1-2083079-1	0	1-2083081-1 (HV2-6xLV2)	0						
	10ft										
	12ft										
	14ft										
	16ft										

<u>0</u>	Handtool for LP Crimp contacts (complete tool)	2-1579004-2
Ž	Handgripper for Crimphead +	2-1579005-1
Ä	Crimphead for LP Crimpcontacts (both parts needed)	3-1579021-8
ŏ	Applicator for ST Crimpcontacts	9-541803-2
100	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

·/lighting

Standard Comp	onents UL	Styl	e					Fo	r more technical sp	ecification	ns go to <b>te.com/</b>	ligh
										-	Housing Color O	White
Description	Splitter Parallel		Splitter Serial		Outlet PCB Connect straight version	or	Outlet PCB Connect straight angled versi		Plug PCB Connector straight version	or	Plug PCB Connector straight angled version	
125 VAC HV-2 (switc			293649-1 (HV4-(HV4/HV2)) 293649-2 (LV2-(LV2/HV2))	0	293653-1	0	293652-1	0	293655-1	0	293654-1	0
125 VAC	293650-2	0			293653-2	0	293652-2	0	293655-2	0	293654-2	С
125 VAC	293650-1	0	293649-1 (HV4-(HV4/HV2))	0	293653-3	0	293652-3	0	293655-3	0	293654-3	С
125 VAC HV-5	293650-3	0			293653-4	0	293652-4	0	293655-4	0	293654-4	0
<b>42 VDC</b>	293650-4	0	293649-2 (LV2-(LV2/HV2))	0	293653-5	0	293652-5	0	293655-5		293654-5	0



## Loose Piece Components UL style

### For more technical specifications go to **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					
<b>125 VAC</b> HV-3	293387-1 O			293388-2					
<b>125 VAC</b> HV-4	293387-2	293389-1	293359-1	293388-2 O	293390-1	293359-1	293648-1 O	293389-1	293358-1
<b>125 VAC</b> HV-5	293387-3			293388-4 O					
<b>42 VDC</b> LV-2	293387-4 O			293388-5 O			293648-2 O		

Description	6 Way Distributor Body (switchable, to be used with coding ring)	Coding Ring	Cover
125 VAC HV-2 (switch)			
<b>125 VAC</b> HV-3	293651-2 (HV3 (6X) + HV2)		
125 VAC HV-4		1740316-1	293587-1 O
<b>125 VAC</b> HV-5			
<b>42 VDC</b>	293651-4 (LV2 (6X) + HV2) O		

6 Way Distributor Bo	ody	Cover	
293651-1	0		
		293587-1	0
293651-3	0		

Bridge Connector							
293647-1 (HV4-HV5)	0						
293647-1 (HV4-HV5)	0						

## 4 Pole Version **UL Style**

### For more technical specifications go to **te.com/lighting**

9		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		293703-3	293702-3
	Key White	293415-1	293703-1	293702-1
	Key Black	293415-2	293703-2	293702-2

	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)

Note that Grey key is different from Black & White

Cable Assembly - 4 pole	Female - Female
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 O

	Male - Female	
8ft	1-2083136-1	•
12ft	1-2083136-2	•
8ft	2-2083136-1	0
12ft	2-2083136-2	0











## **TE Connectivity Assembly Instructions**

## te.com/lighting

## Assembly Instructions



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**



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

#### **TE Technical Support**

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