

# M8/M12 CONNECTOR SYSTEM

**EVERY CONNECTION COUNTS** 



### **TE CONNECTIVITY'S M8/M12**

Connector System for machine industrial automation and control applications provides a solution that safely and reliably ensures the communication in industrial environments. This connector system also finds applications outside of its traditional industries where a compact reliable connection system with environmental protection is required. TE's solution includes an extensive connector range of PCB headers, cable assemblies and I/O boxes, and provides users with an interface that supports higher bandwidth needs – meeting the requirements of up to 10Gb/s. TE's broad product portfolio provides customers with shielded and unshielded cable assembly options in both Cat5e and Cat6A cable types. For rewiring on site a range of field serviceable connectors are provided, allowing versatile systems to be quickly and easily established. Additional styles are available on request including alternative mounting arrangements for panel mount connectors and double ended cable assemblies.



# TE'S INDUSTRIAL ETHERNET PRODUCTS PLAY A VITAL ROLE IN FACTORY AUTOMATION.

TE's industrial Ethernet products are widespread throughout today's networked factories, and play a critical role in driving the efficiency of many manufacturing processes. Used extensively in

material handling equipment, our industrial communications solutions are also found throughout the automotive and food and beverage industries, as well as in the many manufacturing applica-

tions of industrial robots. With the development of smaller industrial Ethernet products, TE's solutions are also ideal for vision systems, common in security equipment and mail sortation devices.

### **CONTENTS**

CONNECTORS 4
• M8 Field Installable 5
• M12 Straight Field Installable 6-7
• M12 Angled Field Installable 8-9
• M12 Panel Mount
• M12 Panel Solder PCB Mount
• M12 X-Coded Field Installable
• Connector Notes
CABLE ASSEMBLIES 14
• M8 Series Male15
• M8 Series Female
• M12 Series Male Straight
• M12 Series Female Straight
• M12 Series Male Angled
• M12 Series Female Angled
• M12 Series Male to Female Y-cables
• M8 Male to M12 Female Series
• M8 Female to M12 Male Series
• M12 Male to M12 Female Series
• M8 Female to M8 Male Series LED
• M12 Female to M12 Male Series LED
• Cable Assembly Notes
I/O MODULES
• M8 - With Cable
• M8 - With M12 Plug Connection
• M8 - For Homerun Connection
• M12 - With Cable
• M12 - With M12/M23 Plug Connection
• M12 - No Cable/With Cable Gland29
• I/O Module Notes
• Online Configurator31







### **M8/M12 CONNECTORS**

TE's M8/M12 connectors continues to fill the ongoing needs for sensor connection in Industrial Machinery and Factory Automation. A connection standard for many years, these products also find applications outside of their traditional industries where a compact reliable connection system with environmental protection is required. TE's M8/M12 connector portfolio includes A, B, D, S, T, and X-coded (up to 10 Gigabit) versions to serve various customer needs.

The connectors are also available in shielded and unshielded versions, to support Gigabyte Ethernet applications.

### M8/M12 - THE CODINGS

A-coding: Actuator-sensor plug

connections for DeviceNet,

**IO link and Profibus** 

B-coding: Fieldbus connections for

Profibus and Interbus

D-coding: Industrial Ethernet, Profinet,

Ethernet/IP and EtherCat

S-coding: Motor, Frequency-convertors,

motor operated switches, PSUs for Power, 620 V. 12 A

T-coding: Fieldbus comp, passive

distribution boxes, motors,

PSUs for Power, 63 V, 12 A

X-coding: Cat6A, high-speed 10Gbit

applications IEC 61076-2-109

0000

Ambient temperature for M8:

-40 °C to 85 °C

Ambient temperature for M12:

-40 °C to 85 °C

Current rating:

4 and 5 pins: 4 A per pin 8 and 12 pins: 2 A per pin

IP rating: IP67/IP68

As specifications vary for different parts, please refer to your TE contact

for detailed information.

Application Specifications for M8 M12 Connectors and Cable Assemblies:

114-32127

**Product Specifications:** 

Connectors: 108-106140 X-coded: 108-137008

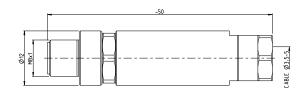


Size	Pins	Rated	Maximum Current per pin	Polution grade
M8	3	60 V	4 A	3
M8	4	30 V	4 A	3
M12	3	250 V	4 A	3
M12	4	250 V	4 A	3
M12	5	125 V	4 A	3
M12	8	60 V	2 A	3
M12	12	30 V	2 A	3

### **M8 Field Installable**

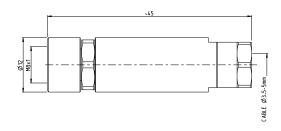
#### Male Series





#### Female Series





		TE Part Number
M8 Male Scre	w Connection,	Straight
3-Pole	PG7	2120954-1
4-Pole	PG7	1-2120954-1

M8 Male Right Angle		
3-Pole	PG7	2120955-1
4-Pole	PG7	1-2120955-1

M8 Male Panel, Solder, Front Mounting, M8 Fastening Thread			
3-Pole	M8	2120958-1	
4-Pole	M8	1-2120958-1	

		TE Part Number
M8 Female Screw Connection, Straight		
3-Pole	PG7	2120956-1
4-Pole	PG7	1-2120956-1

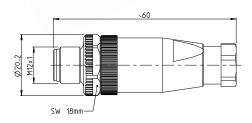
M8 Male Right Angle			
3-Pole	PG7	2120957-1	
4-Pole	PG7	1-2120957-1	

M8 Male Panel, Solder, Front Mounting, M8 Fastening Thread		
3-Pole	M8	2120959-1
4-Pole	M8	1-2120959-1

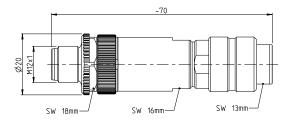
### **M12 Straight Field Installable**

#### Male Series









		TE Part Number	
A coding - M12	A coding - M12 Male Screw Connection, Straight		
3-Pole	PG7	2-2271110-1	
	PG9	2-2271110-2	
4-Pole	PG7	3-2271110-1	
	PG9	3-2271110-2	
5-Pole	PG7	4-2271110-1	
	PG9	4-2271110-2	
8-Pole	PG9	5-2271110-2	
12-Pole	PG9	6-2271110-2	

B coding - M12 Male Screw Connection, Straight		
4-Pole PG7		3-2271112-1
	PG9	3-2271112-2
5-Pole	PG7	4-2271112-1
	PG9	4-2271112-2

		TE Part Number	
A coding - M12 Male Screw Connection, Straight, Shielded			
4-Pole	PG7	3-2271111-2	
5-Pole	PG7	4-2271111-2	
8-Pole	PG7	5-2271111-2	
12-Pole	PG9	6-2271111-2	

B coding – M12 Male Screw Connection, Straight, Shielded			
4-Pole	PG7	3-2271113-2	
5-Pole	PG7	4-2271113-2	

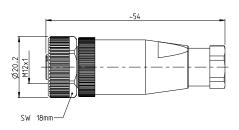
D coding - M12 Male Screw Connection, Straight, Shielded		
4-Pole	PG7	3-2271115-2

S coding - M12 Male Screw Connection, Straight, Shielded		
3-Pole	plus PE	2120951-1

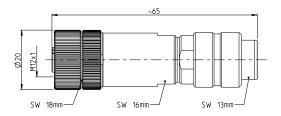
T coding - M12 Male Screw Connection, Straight, Shielded		
4-Pole		2120949-1

#### Female Series









All dimensions in mm.

		TE Part Number
A coding - M12	Female Screw Connecti	on, Straight
3-Pole	PG7	2-2271116-1
	PG9	2-2271116-2
4-Pole	PG7	3-2271116-1
	PG9	3-2271116-2
5-Pole	PG7	4-2271116-1
	PG9	4-2271116-2
8-Pole	PG9	5-2271116-2
12-Pole	PG9	6-2271116-2

B coding - M12 Female Screw Connection, Straight		
4-Pole	PG7	3-2271118-1
	PG9	3-2271118-2
5-Pole	PG7	4-2271118-1
	PG9	4-2271118-2

		TE Part Number
A coding – M12 Female Screw Connection, Straight, Shielded		
4-Pole	PG9	3-2271117-2
5-Pole	PG9	4-2271117-2
8-Pole	PG9	5-2271117-2
12-Pole	PG9	6-2271117-2

B coding – M12 Female Screw Connection, Straight, Shielded		
4-Pole	PG7	3-2271119-2
5-Pole	PG7	4-2271119-2

D coding – M12 Female Screw Connection, Straight, Shielded		
4-Pole	PG7	3-2271121-2

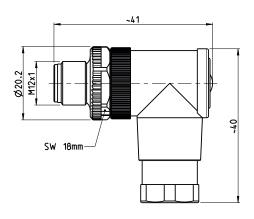
S coding - M12 Female Screw Connection, Straight, Shielded		
3-Pole	plus PE	2120950-1

T coding - M12 Female, Screw Connection, Straight, Shielded		ion, Straight, Shielded
4-Pole		2120948-1

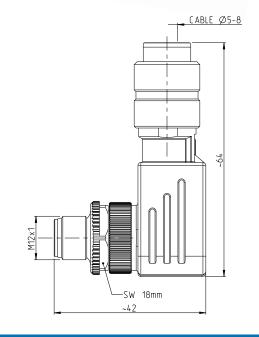
### **M12 Angled Field Installable**

#### Male Series









		TE Part Number
A coding - M1	2 Male Screw Connection	ı, Angled
3-Pole	PG7	2-2271122-1
	PG9	2-2271122-2
4-Pole	PG7	3-2271122-1
	PG9	3-2271122-2
5-Pole	PG7	4-2271122-1
	PG9	4-2271122-2
8-Pole	PG9	5-2271122-2
12-Pole	PG9	6-2271122-2

B coding - M12 Male Screw Connection, Angled		
4-Pole	PG7	3-2271124-1
	PG9	3-2271124-2
5-Pole	PG7	4-2271124-1
	PG9	4-2271124-2

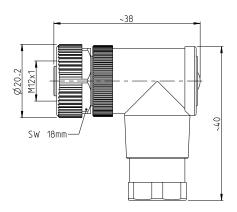
		TE Part Number
A coding - M12 Male Screw Connection,		, Angled, Shielded
4-Pole	PG7	3-2271123-2
5-Pole	PG7	4-2271123-2
8-Pole	PG7	5-2271123-2
12-Pole	PG9	6-2271123-2

B coding - M12 Male Screw Connection, Angled, Shielded		
4-Pole	PG7	3-2271125-2
5-Pole	PG7	4-2271125-2

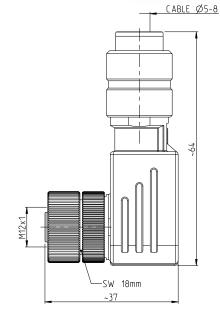
D coding - M12 Male Screw Connection, Angled, Shielded		, Angled, Shielded
4-Pole	PG7	3-2271127-2
	PG9	3-2271133-2

#### Female Series









		TE Part Number
A coding - M12	A coding - M12 Female Screw Connection, Angled	
3-Pole	PG7	2-2271128-1
	PG9	2-2271128-2
4-Pole	PG7	3-2271128-1
	PG9	3-2271128-2
5-Pole	PG7	4-2271128-1
	PG9	4-2271128-2
8-Pole	PG9	5-2271128-2
12-Pole	PG9	6-2271128-2

B coding – M12 Female Screw Connection, Angled		on, Angled
4-Pole	PG7	3-2271130-1
	PG9	3-2271130-2
5-Pole	PG7	4-2271130-1
	PG9	4-2271130-2

		TE Part Number
A coding - M12 Female Screw Connection, Angled, Shielded		on, Angled, Shielded
4-Pole	PG7	3-2271129-2
5-Pole	PG7	4-2271129-2
8-Pole	PG7	5-2271129-2
12-Pole	PG9	6-2271129-2

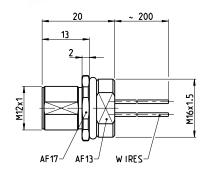
B coding – M12 Female Screw Connection, Angled, Shielded		
4-Pole	PG9	3-2271131-2
5-Pole	PG9	4-2271131-2

D coding - M12 Female Screw Connection		on, Angled, Shielded
4-Pole	PG7	3-2271133-2

### **M12 Panel Mount**

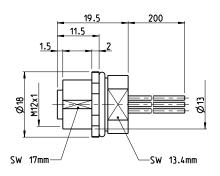
#### Male Series





#### Female Series





TE Part Number	
A coding M12 Male, Fron	t Mounting M16 x 1.5 with wires 0.25 200 mm
4-Pole	3-2271134-2
5-Pole	4-2271134-2
8-Pole	5-2271134-2
12-Pole	6-2271134-2

B coding M12 Male, Front Mounting M16 x 1.5 wit		h wires 0.25 200 mm
4-Pole		3-2271135-2
5-Pole		4-2271135-2

D coding M12 Male, Front Mounting M16 x 1.5 with wires 0.25 200 mm		
4-Pole	PG9	3-2271136-2

T coding M12 Male, Front Mounting M20 x 1.5		
4-Pole		2120947-1

	TE Part Number
A coding M12 Female, Fr	ont Mounting M16 x 1.5 with wires 0.25 200 mm
4-Pole	3-2271137-2
5-Pole	4-2271137-2
8-Pole	5-2271137-2
12-Pole	6-2271137-2

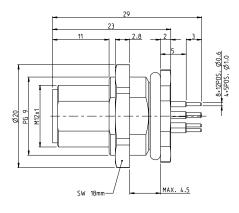
B coding M12 Female, Front Mounting M16 x 1.5 with wires 0.25		vith wires 0.25 200 mm
4-Pole		3-2271138-2
5-Pole		4-2271138-2

D coding M12 Female, Front Mounting M16 x 1.5 with wires 0.25 200 mm		
4-Pole		3-2271139-2

T coding M12 Female, Front Mounting M20 x 1.5		
4-Pole		2120946-1

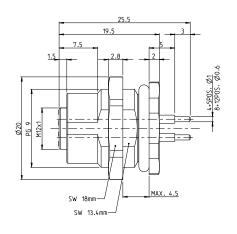
### **M12 Panel Solder PCB Mount**

#### Male Series



Female Series





		TE Part Number
A coding M12 Male, Rea	r Mounting M16 x 1.5, sti	raight
4-Pole	PG9	3-2271140-2
5-Pole	PG9	4-2271140-2
8-Pole	PG9	5-2271140-2
12-Pole	PG9	6-2271140-2

B coding M12 Male, Rear	Mounting M16 x 1.5, stra	iight
4-Pole	PG9	3-2271141-2
5-Pole	PG9	4-2271141-2

D coding M12 Male, Rear Mounting M16 x 1.5, straight		
4-Pole	PG9	3-2271142-2

		TE Part Number
A coding M12 Female, Rear Mounting M16 x 1.5, straight		traight
4-Pole	PG9	3-2271143-2
5-Pole	PG9	4-2271143-2
8-Pole	PG9	5-2271143-2
12-Pole	PG9	6-2271143-2

B coding M12 Female, Rear Mounting M16 x 1.5, straight		
4-Pole	PG9	3-2271144-2
5-Pole	PG9	4-2271144-2

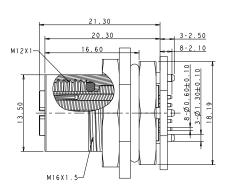
D coding M12 Female, Rear Mounting M16 x 1.5, straight		traight	
	4-Pole	PG9	3-2271145-2

### **M12 X-Coded Field Installable**

M12 X-Coded PCB Connector

#### M12 Pin Connector Cable Assembly



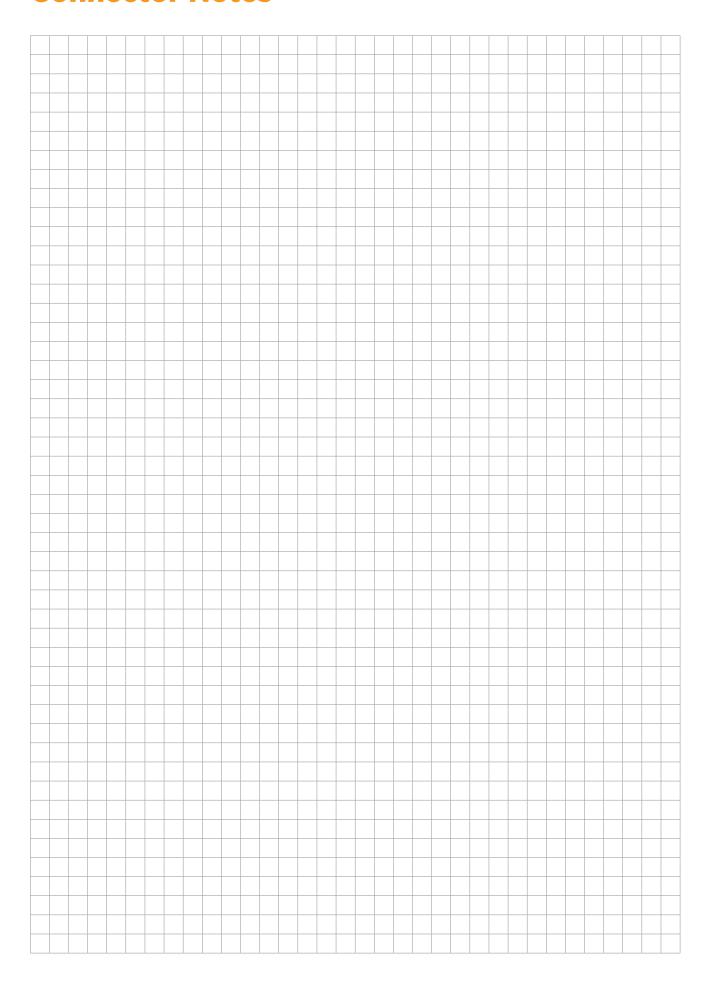




Description	TE Part Number	
M12 X-Coded PCB Connector		
Female Panel Mount Solder PCB Connector	2232331-1	
Female Panel Mount Solder Wire	2271195-1	
Male Connector installable (IDC): 5.5-9 mm cable diameter	2120952-1	

Length	TE Part Number
M12 Pin Connector Cable Assembly	
1m	2241021-1
2 m	2241021-2
3 m	2241021-3
4 m	2241021-4
5 m	2241021-5
10 m	2241021-6

### **Connector Notes**



### M8/M12 **CABLE ASSEMBLIES**

TE's M8/M12 cable assemblies are available as single-ended or double-ended and as straight or angled versions. Various cable types, colors and lengths offer a flexible design that can be used in combination with TE's male/female connectors and I/O Modules.



IEC 61076-2-104 for all M8 series and IEC 61076-2-101 for all M12 series

#### Operating temperature:

Connectors: -25°C to +85°C

Cables:

- PVC: -5°C to +80°C Flexible

-30°C to +80°C Fixed

#### **Connector Contacts:**

Current rating per contact is 4 A

Shielding: Yes/No Refer to drawing

Suitable Cable Diameter:

Refer to drawing

IP Rating: IP65/67



### **M8 Cable Assemblies**

#### M8 Series Male

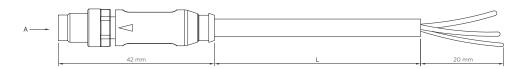
TE Part Number	Description	Available In
2273000	M8 x 1.0 Straight plug Pigtail	3 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273002	M8 x 1.0 Straight plug Pigtail	4 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m







TE Part Number	Description	Available In
2273004	M8 x 1.0 Straight plug Pigtail Shielded	3 positions PUR or PVC, Lengths: $1.5\mathrm{m}$ / $3.0\mathrm{m}$ / $5.0\mathrm{m}$ / $10.0\mathrm{m}$
2273006	M8 x 1.0 Straight plug Pigtail	4 positions PUR or PVC. Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m



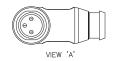


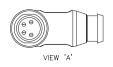


/IEW	'A'	

TE Part Number	Description	Available In
2273008	M8 x 1.0 Angled plug Pigtail	3 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273010	M8 x 1.0 Angled plug Pigtail	4 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m







TE Part Number	Description	Available In
2273014	M8 Male Panel Mount Rear	3 positions Panel Mount, Lengths: 0.2 m
2273230	M8 Male Panel Mount Rear	4 positions Panel Mount, Length: 0.2 m



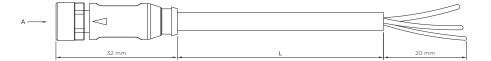




### **M8 Cable Assemblies**

#### M8 Series Female

TE Part Number	Description	Available In
2273001	M8 x 1.0 Straight socket Pigtail	3 and 4 positions PUR or PVC, Lengths: $1.5\mathrm{m}$ / $3.0\mathrm{m}$ / $5.0\mathrm{m}$ / $10.0\mathrm{m}$







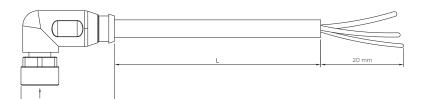
TE Part Number	Description	Available In
2273005	M8 x 1.0 Straight socket Pigtail Shielded	3 and 4 positions PUR or PVC. Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m

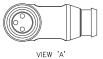


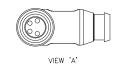




TE Part Number	Description	Available In
2273009	M8 x 1.0 Angled socket Pigtail	3 and 4 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m

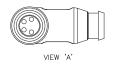






<b>TE Part Number</b>	Description	Available In
2273012	M8 x 1.0 Angled socket Pigtail LED	4 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m





TE Part Number	Description	Available In
2273013	M8 Female Panel Mount Rear	3 positions Panel Mount, Length: 0.2 m
2273015	M8 Female Panel Mount Rear	4 positions Panel Mount, Length: 0.2 m



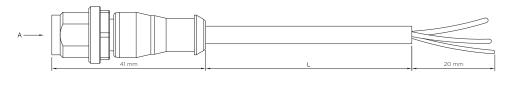




### **M12 Cable Assemblies**

#### M12 Series Male Straight

TE Part Number	Description	Available In
2273022	M12 x 1.0 Straight plug Pigtail Unshielded	3 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273028	M12 x 1.0 Straight plug Pigtail Unshielded	4 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273034	M12 x 1.0 Straight plug Pigtail Unshielded	5 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273040	M12 x 1.0 Straight plug Pigtail Unshielded	8 positions PUR, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m

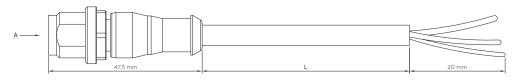








<b>TE Part Number</b>	Description	Available In
2273042	M12 x 1.0 Straight plug Pigtail Shielded	3 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273044	M12 x 1.0 Straight plug Pigtail Shielded	4 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273046	M12 x 1.0 Straight plug Pigtail Shielded	5 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273048	M12 x 1.0 Straight plug Pigtail Shielded	8 positions PUR, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m



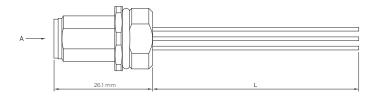






VIEW 'A'

TE Part Number	Description	Available In
2273051	M12 Male Panel Mount Rear	4 positions PVC, Lengths: 0.2 m
2273052	M12 Male Panel Mount Rear	5 positions PVC, Length: 0.2 m





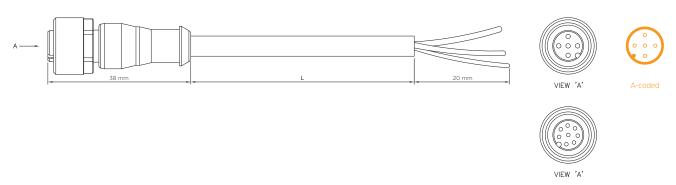


B-coded

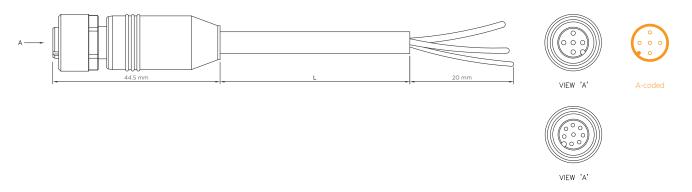
### **M12 Cable Assemblies**

#### M12 Series Female Straight

TE Part Number	Description	Available In
2273023	M12 x 1.0 Straight socket Pigtail Unshielded	3 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273029	M12 x 1.0 Straight socket Pigtail Unshielded	4 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273035	M12 x 1.0 Straight socket Pigtail Unshielded	5 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273041	M12 x 1.0 Straight socket Pigtail Unshielded	8 positions PUR, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m



TE Part Number	Description	Available In
2273043	M12 x 1.0 Straight socket Pigtail Shielded	3 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273045	M12 x 1.0 Straight socket Pigtail Shielded	4 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273047	M12 x 1.0 Straight socket Pigtail Shielded	5 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273049	M12 x 1.0 Straight socket Pigtail Shielded	8 positions PUR, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m

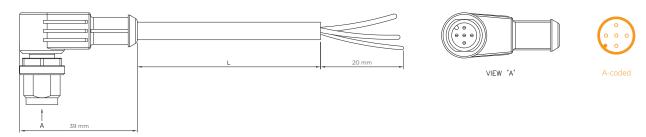


TE Part Number	Description	Available In
2273054	M12 Female Panel Mount Rear	4 positions PUR, Length: 0.2 m
2273055	M12 Female Panel Mount Rear	5 positions PUR, Length: 0.2 m

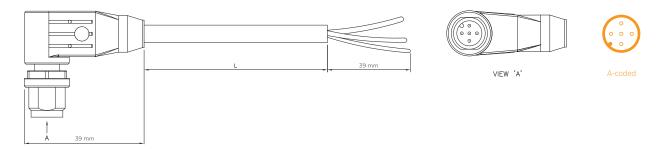


#### M12 Series Male Angled

TE Part Number	Description	Available In
2273076	M12 x 1.0 Angled plug Pigtail Unshielded	3 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273082	M12 x 1.0 Angled plug Pigtail Unshielded	4 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273088	M12 x 1.0 Angled plug Pigtail Unshielded	5 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273094	M12 x 1.0 Angled plug Pigtail Unshielded	8 positions PUR, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m



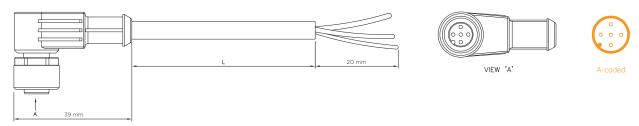
TE Part Number	Description	Available In
2273096	M12 x 1.0 Angled plug Pigtail Shielded	3 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273098	M12 x 1.0 Angled plug Pigtail Shielded	4 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273100	M12 x 1.0 Angled plug Pigtail Shielded	5 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273102	M12 x 1.0 Angled plug Pigtail Shielded	8 positions PUR, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m



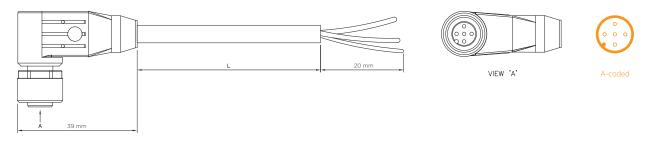
### **M12 Cable Assemblies**

#### M12 Series Female Angled

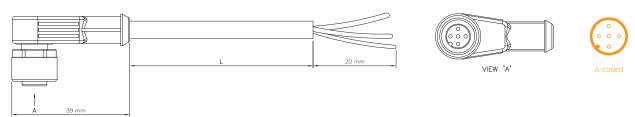
TE Part Number	Description	Available In
2273077	M12 x 1.0 Angled socket Pigtail Unshielded	3 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273083	M12 x 1.0 Angled socket Pigtail Unshielded	4 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273089	M12 x 1.0 Angled socket Pigtail Unshielded	5 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273095	M12 x 1.0 Angled socket Pigtail Unshielded	8 positions PUR, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m



TE Part Number	Description	Available In
2273097	M12 x 1.0 Straight socket Pigtail Shielded	3 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273099	M12 x 1.0 Straight socket Pigtail Shielded	4 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273101	M12 x 1.0 Straight socket Pigtail Shielded	5 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273103	M12 x 1.0 Straight socket Pigtail Shielded	8 positions PUR, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m

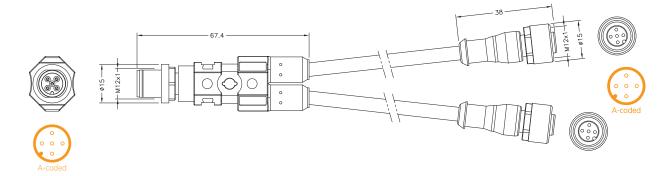


TE Part Number	Description	Available In
2273104	M12 x 1.0 Straight socket Pigtail Shielded LED	4 positions PUR, 2 LED, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m
2273105	M12 x 1.0 Straight socket Pigtail Shielded LED	4 positions PUR or PVC, 3 LED, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m



#### M12 Series Male to Female Y-cables

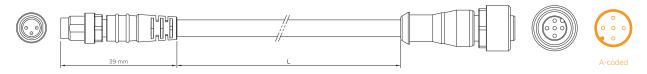
TE Part Number	Description	Available In
2273107	M12 Y conn Male to 2 x M12 Female A	4 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m



### **M8 to M12 Cable Assemblies**

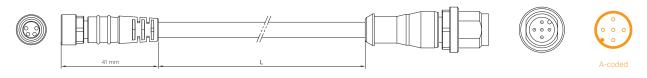
#### M8 Male to M12 Female Series

TE Part Number	Description	Available In
2273108	M8 Straight plug to M12 Straight socket Unshielded	3 positions PUR or PVC, Lengths: $0.3\mathrm{m}/0.6\mathrm{m}/1.0\mathrm{m}/1.5\mathrm{m}/2.0\mathrm{m}$
2273109	M8 Strght plug to M12 Straight socket Unshielded	4 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m



#### M8 Female to M12 Male Series

TE Part Number	Description	Available In
2273110	M8 Straight socket to M12 Straight plug Unshielded	3 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m
2273111	M8 Straight socket to M12 Straight plug Unshielded	4 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m



### **M12 to M12 Cable Assemblies**

#### M12 Male to M12 Female Series

<b>TE Part Number</b>	Description	Available In
2273112	M12 Straight plug to M12 Straight socket Unshielded	3 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m
2273113	M12 Straight plug to M12 Straight socket Unshielded	4 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m
2273114	M12 Straight plug to M12 Straight socket Unshielded	5 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m
2273115	M12 Straight plug to M12 Straight socket Unshielded	8 positions PUR, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m







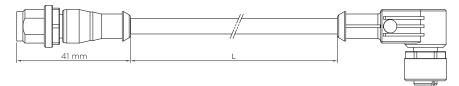


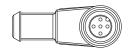


TE Part Number	Description	Available In
2273116	M12 Straight plug to M12 Angled socket Unshielded	3 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m
2273117	M12 Straight plug to M12 Angled socket Unshielded	4 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m
2273118	M12 Straight plug to M12 Angled socket Unshielded	5 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m



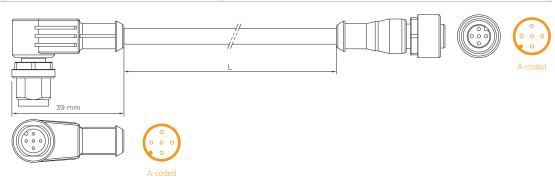








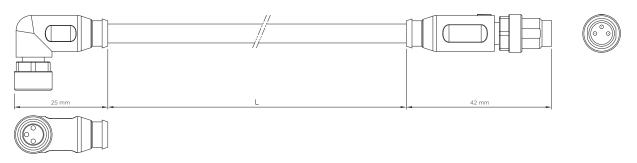
TE Part Number	Description	Available In
2273120	M12 Angled plug to M12 Straight socket Unshielded	3 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m
2273121	M12 Angled plug to M12 Straight socket Unshielded	4 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m
2273122	M12 Angled plug to M12 Straight socket Unshielded	5 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m



### **M8 to M8 Cable Assemblies**

#### M8 Female to M8 Male Series LED

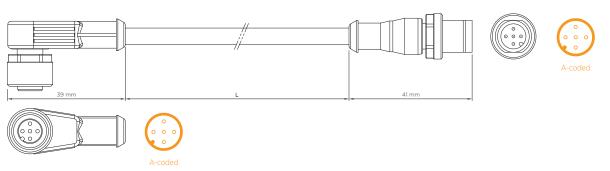
TE Part Number Description		Available In	
2273124	M8 Angled socket to M8 Straight plug 2 LED	3 positions PUR, PVC, PUR/PVC and Welding Spark resistant Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m	



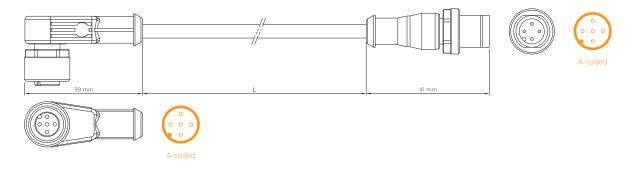
### M12 to M12 Cable Assemblies

#### M12 Female to M12 Male Series LED

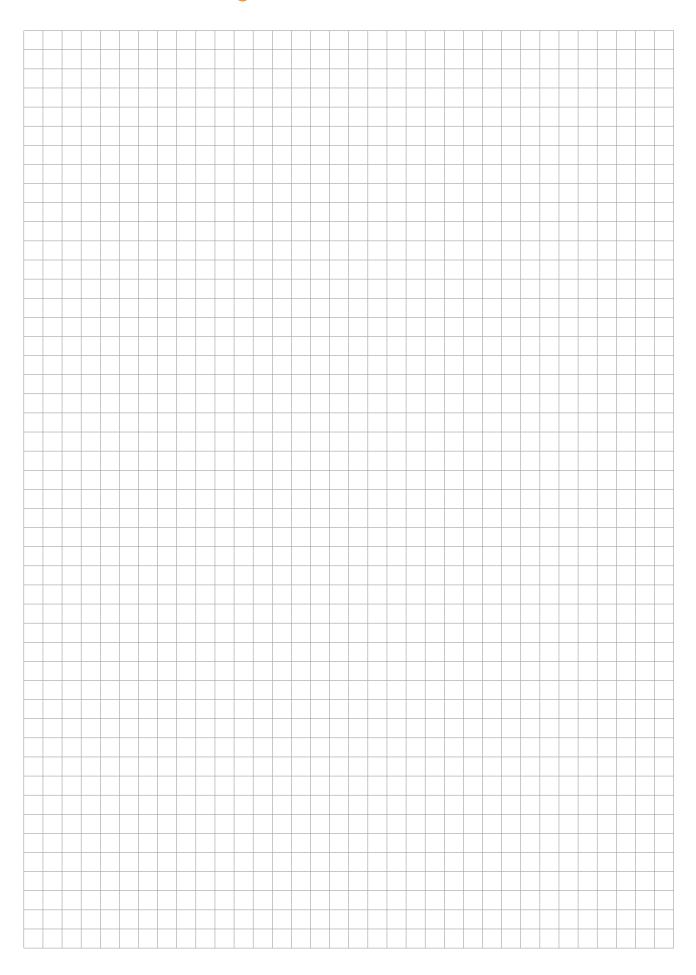
TE Part Number	Description	Available In
2273125	M12 Angled socket to M12 Straight plug 2 LED	3 positions PUR, PVC, PUR/PVC and Welding Spark resistant Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m



TE Part Number	Description	Available In
2273126	M12 Angled socket to M12 Straight plug 3 LED	4 positions PUR, PVC, PUR/PVC and Welding Spark resistant Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m
2273127	M12 Angled socket to M12 Straight plug 3 LED	5 positions PUR or PVC, PUR/PVC and Welding Spark resistant Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m



### **Cable Assembly Notes**



# I/O MODULES

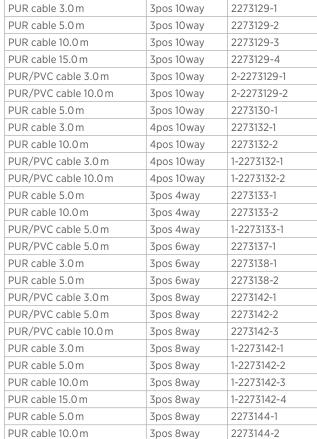
Complementary to the M8/M12 cable assemblies and connectors, TE offers compact I/O modules for Industrial applications. The I/O modules are well accepted in the Industrial Automation industry and the concept of TE's I/O modules is simple, efficient and cost effective.



#### M8 - With Cables

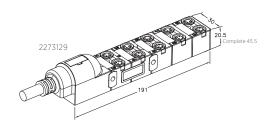
#### M8 Series

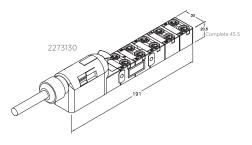


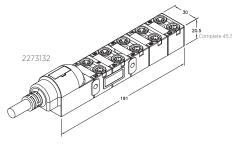


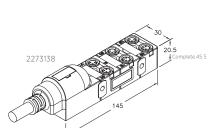
**Positions** 

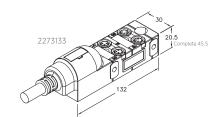
**TE Part Number** 



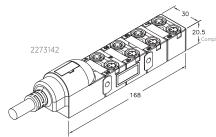


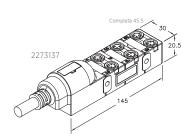


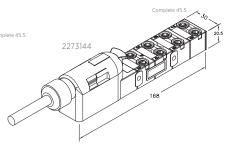




Description

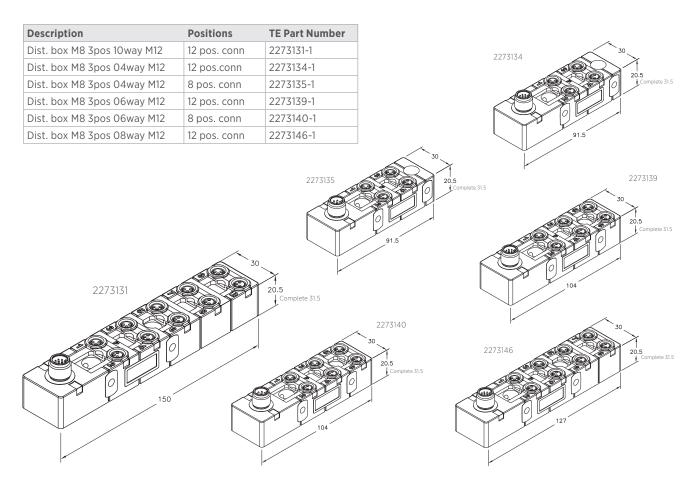






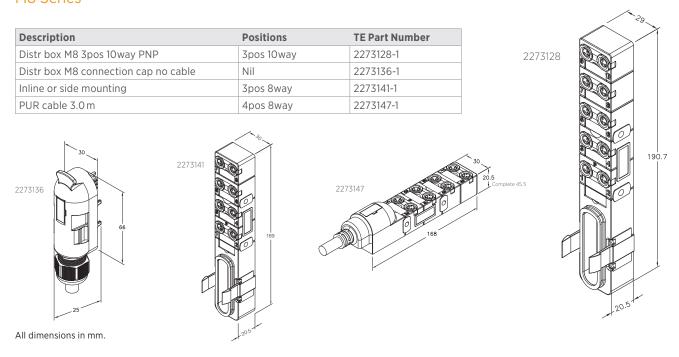
### **M8 - With M12 Plug Connection**

#### M8 Series



### **M8 - For Homerun Connection**

#### M8 Series



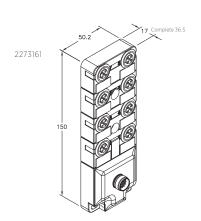
### M12 - With Cable

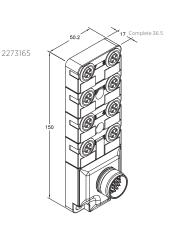
#### M12 Series

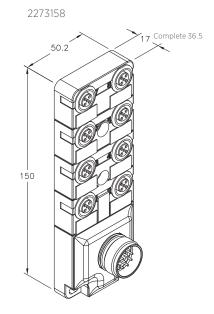
### M12 - With M12/M23 Plug Connection

#### M12 Series

Description		Positions	TE Part Number	
Without homerun cable		4pos 8way	2273158-1	
	Distr box M12 4-5pos 8way M12/12p PNP	4-5pos 8way	2273161-1	
	Distr box M12 5pos 4way M23/19p PNP	5pos 4way	2273165-1	



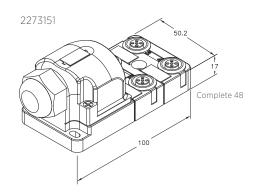


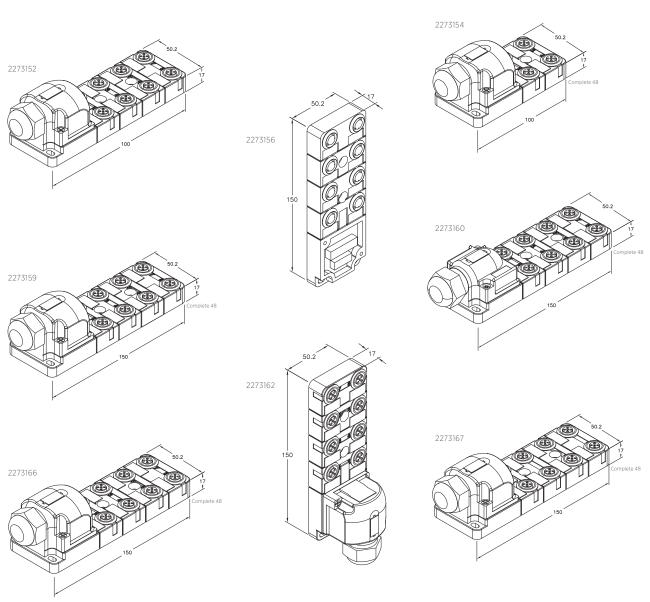


### M12 - No Cable/With Cable Gland

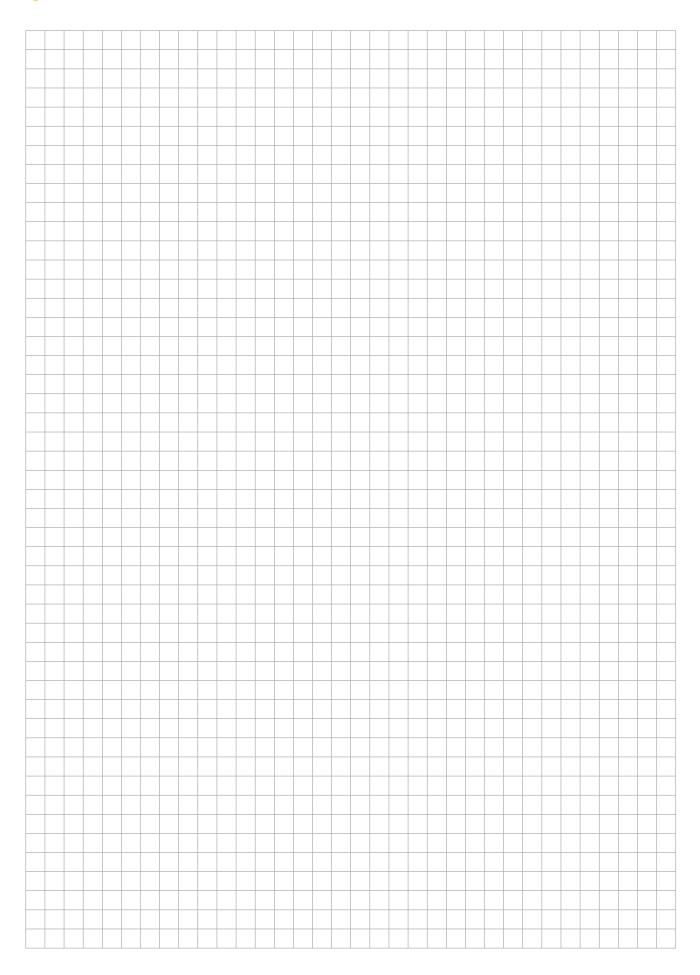
#### M12 Series

Description	Positions	TE Part Number
With plug cap	4pos 4way	2273151-1
Without homerun cable	5pos 4way	2273152-1
With plug cap	5pos 4way	2273154-1
Without homerun cable	4pos 8way	2273156-1
With plug cap	4pos 8way	2273159-1
With plug cap	4pos 8way	2273160-1
Without homerun cable	5pos 8way	2273162-1
With plug cap	5pos 8way	2273166-1
With plug cap	5pos 8way	2273167-1

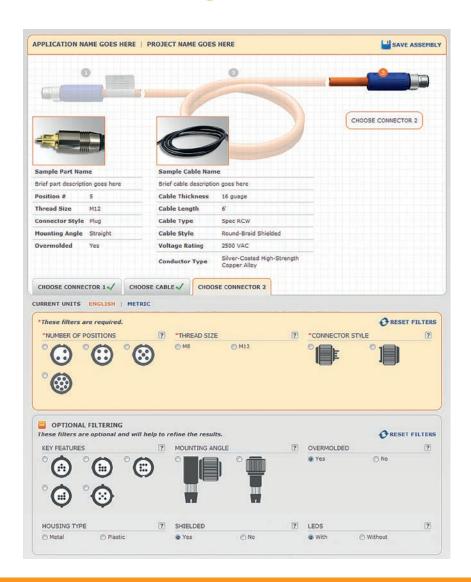




### **I/O Module Notes**



### **Online Configurator**



# WHAT YOU NEED, WHEN YOU NEED IT - WITH TE'S ONLINE CONFIGURATOR

#### Easy to use

Getting the information you are looking for can be a long and tedious exercise. The TE configurator walks you through the different options, attributes and characteristics with a straightforward and easy to use navigation.

#### Easy to choose

Product-selection made easy. With the TE configurator you choose – and get – exactly what you were looking for.

#### Quick response

Selected what you were looking for? With a quick turn capability, immediate quotes and a fast delivery of your product is what TE is striving for.

#### Your cable choice

Didn't find the cable specifications you were looking for? The TE configurator provides the ability for custom cable lengths.

#### Your needs - your choice

Don't bother with long lists of specifications, data and information that you are not interested in. Build an M8/M12 solution that fits your needs and your application.

#### Let's connect

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

#### **Technical Support**

te.com/support-center

Australia	+86 400-820-6015	Hungary	+36 1-2892040	Portugal	+34 91-6630420
Austria	+43 1-9056-0	India	+86 400-820-6015	Russia	+74 95-790-790-2200
Belgium	+31 73-6246999	Ireland	+1 800-882-391	Slovakia	+42 02-720-11102
Brazil	+55 11-2103-6000	Italy	+39 011-4012111	Slovenia	+38 615-602-132
China	+86 400-820-6015	Japan	+044-844-8052	South Africa	+97 150-457-0806
Czech Republic	+42 02-7201-1103	Korea	+02-3415-4607	Spain	+34 932-910-330
Denmark	+46 8-5072-5000	Latvia	+37 2-6778-673	Sweden	+46 8-5072-5000
Estonia	+37 2677-8673	Lithuania	+37 037426900	Switzerland	+41 71-447-0447
Finland	+46 8-5072-5000	Luxembourg	+31 73-6246999	Taiwan	+86 400-820-6015
France	+33 1-34-20-8686	Netherlands	+31 73-6246999	Turkey	+90 212-282-6053
Germany	+49 6151-607-1999	New Zealand	+86 400-820-6015	United Kingdom	+44 0800-267666
Greece	+97 1-4-347-0226	Norway	+46 8-5072-5000	United States of America	800-522-6752
Holland	+31 73-6246999	Poland	+48 22-4576750		

#### te.com

© 2014 Tyco Electronics Corporation, a TE Connectivity Ltd. Company. All Rights Reserved. 1-1773701-8 IND WR 09/2014

TE Connectivity and the TE connectivity (logo) are trademarks of the TE Connectivity Ltd. family of companies. Other logos, product and Company names mentioned herein may be trademarks of their respective owners. While TE has made every reasonable effort to ensure the accuracy of the information in this brochure, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any adjustments to the information contained herein at any time without notice. TE expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this brochure are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE for the latest dimensions and design specifications.

