







M8/M12 CABLE ASSEMBLIES

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SENSOR/ACTUATOR M8/M12 A-CODE

M8/M12 A-coded cable assemblies are designed for applications such as sensors, robotics & production machinery & equipment, where extreme temperatures and harsh environments are likely to be encountered. These cable assemblies are also ideal for non-industrial applications where compact, robust and reliable connections are required to withstand rigorous environmental elements.

TE provides a full solution with shielded and non-shielded cable assembly options that help customers easily connect to advanced industrial networks. The new product line meets the IP67 rating for protection against dust and water ingress; they also provide protection against electromagnetic radiation, chemicals and mechanical stress commonly found in industrial environments.

Designed as industry standard solutions, these quick-turn cable assemblies help to reduce unnecessary downtime and help maintain continuous operations in critical conditions.



TE's cross-industry expertise allows it to offer customized solutions through a broad cable assembly portfolio that includes connectivity to many industry standards serving various customer needs.

TE's M8/M12 cable assemblies are available as single-ended or double-ended, in straight and angled versions, with shielded and un-shielded variants. Various cable types are offered depending on the application requirements. Cable sheathing is in PVC or PUR. The predefined offering in length of 0.5, 1, 1.5, 3, 5, 7 and 10 meters covers a vast range of customer needs on the market. Customized cable assemblies in different lengths provide a solution for specific needs. All can be used in combination with TE's male/female connectors and I/O Modules.

KEY FEATURES

- IP67 rated: dust and waterproof
- Overmolded PVC or PUR cable assemblies/Shielded & non shielded versions
- · Key options: A coded
- M12 Positions: 2, 3, 4, 5 & 8 poles
- M8 Positions: 3 & 4 poles
- M8 & M12 single ended cable assemblies
- M8 & M12 double ended cable assemblies
- M8 to M12 cable assemblies
- Cable length options: 0.5 m, 1 m, 1.5 m, 3 m, 5 m, 7 m, and 10 m

BENEFITS

- M12 Cable Assemblies are IP67 sealed and tested in TE's factory to eliminate the possibility of false wiring & to ensure robust connection
- Reduce downtime in harsh environments with reliable industry standard solution that includes quick turn, prototype cable assemblies.
- Full solution offering including customized and general market cable assemblies enables 1-stopshopping and reduced TCO

APPLICATIONS

- Industrial Communications
- Industrial Machinery
- · Industrial automation
- Robotics
- Machine tools
- · Semiconductor manufacturing
- · Manufacturing of solenoid and sensor valves
- · Process control systems
- · Vision systems
- · Electronics manufacturing

MECHANICAL

- · Durability: 100 cycles
- Degree of protection: IP67
- Temperature Ratings:
 - PVC:
 - Fixed: -40°C to +80°C
 - Flexible: -25°C to +80°C
 - PUR:
 - Fixed: -10°C to +80°C
 - Flexible: -5°C to +80°C

ELECTRICAL

- · Voltage rating
 - M12:
 - 250V (≤4 way)
 - 60V (5 way)
 - 30V (>5 way)
 - M8:
 - 60V (3 way)
 - 30V (4 & 5 pos)
- · Current rating
 - M12 A Coding
 - 2 5 ways = 4A
 - 6 8 ways = 2 A
 - M8: 3A
- Insulation Resistance: $100M\Omega$ Min.

MATERIALS

- Contact: Brass, Gold Flash Plating
- · Nut: Brass, Nickel plating
- O-ring: Silicon rubber
- Spring: Stainless steel
- Over-molding: TPU
- Housing: PA
- M12 Cable: 22 AWG, 2/3/4/5 core, with or without Foil, Drain, Braid Shield RoHS; Cable Jacket material: PVC or PUR
- M12 Cable: 24 AWG, 8 core, with or without Foil, Drain, Braid Shield RoHS; Cable Jacket material: PVC or PUR
- M8 Cable: 24 AWG,3/4 core, with or without Foil, Drain, Braid Shield RoHS; Cable Jacket material: PVC or PUR

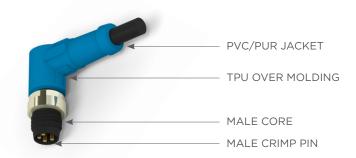
STANDARDS & APPLICATIONS

- Product Specification: 108-106140
- Application Specification: 114-137144 (M12) 114-137144-1(M8)
- UL Standard: UL2238
- IEC 61076-2-101: Detail specification for M12 connectors with screw-locking
- IEC 61076-2-104: Detail specification with M8 screw-locking or snap-locking
- IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods
- IEC-60529: Degree of protection provided by enclosures (IP Code)

M8 Single Ended Cable Assembly

M8 cable assemblies T405/T406 series

STANDARD: IEC61076-2-104



T40 S A X W Y O MN -OOL

S	Application Type - Shield/ Unshielded
5	Unshielded
6	Shield

Α	A Single/Double	
1	Single end	
2	Double end	

X	Connector Type for Single End
1	M8 Straight, Male
2	M8 Right angle, Male
3	M8 Straight, Female
4	M8 Right angle, Female

W Cable Material Ty	
1	Black PVC
2	Gray PUR

MN Pos		Position
	03	3P
	04	4P

Υ	Connector Type for Double End			
0	N/A			
1	M8 Straight, Male			
2	M8 Right angle, Male			
3	M8 Straight, Female			
4	M8 Right angle, Female			
5	M12 Straight, Male			
6	M12 Right angle, Male			
7	M12 Straight, Female			
8	M12 Right angle, Female			

-00L	Cable Length
-001	0.5M
-002	1.0M
-003	1.5M
-004	3.0M
-005	5.0M
-006	7.0M
-007	10.0M
-XXX	Customized Cable Length
-XXO	XX M
-XX5	XX.5 M

Wiring Diagram-M8 cable assembly Unshielded*

From Pin	Ро	To Din	
	3	4	To Pin
1	Brown	Brown	1
2	-	White	2
3	Blue	Blue	3
4	Black	Black	4

Wiring Diagram-M8 cable assembly Shielded*

From Pin	Ро	To Pin	
From Pin	3	4	TO PIN
1	Brown	Brown	1
2	-	White	2
3	Blue	Blue	3
4	Black	Black	4
Shielded	Metal Nut	Metal Nut	Shielded

^{*} This wire diagram is applicable to all M8 cable assemblies listed in this flyer.

PRODUCT OFFERINGS - M8 Single Ended Cable Assembly

M8 STR SINGLE ENDED CABLE ASSEMBLY

PN	Part Description	Pos	Туре	Cable Material	Shielded/Unshielded	
T4051320003-001	M8 FS 3P PUR CABLE 0.5M		Female Straight	t PUR	Unshielded	
T4061320003-001	M8 FS 3P PUR CABLE 0.5M SH	7			Shielded	
T4051310003-001	M8 FS 3P PVC CABLE 0.5M	3			Unshielded	
T4061310003-001	M8 FS 3P PVC CABLE 0.5M SH				Shielded	
T4051320004-001	M8 FS 4P PUR CABLE 0.5M			DUD	Unshielded	
T4061320004-001	M8 FS 4P PUR CABLE 0.5M SH			POR	PUR	Shielded
T4051310004-001	M8 FS 4P PVC CABLE 0.5M	4		PVC	Unshielded	
T4061310004-001	M8 FS 4P PVC CABLE 0.5M SH				Shielded	

PN	Part Description	Pos	Type	Cable Material	Shielded/Unshielded
T4051120003-001	M8 MS 3P PUR CABLE 0.5M			PUR	Unshielded
T4061120003-001	M8 MS 3P PUR CABLE 0.5M SH	3	Male Straight	POR	Shielded
T4051110003-001	M8 MS 3P PVC CABLE 0.5M			PVC PUR	Unshielded
T4061110003-001	M8 MS 3P PVC CABLE 0.5M SH				Shielded
T4051120004-001	M8 MS 4P PUR CABLE 0.5M				Unshielded
T4061120004-001	M8 MS 4P PUR CABLE 0.5M SH				Shielded
T4051110004-001	M8 MS 0.5M 4P PVC CABLE 0.5M	4			Unshielded
T4061110004-001	M8 MS 4P PVC CABLE 0.5M SH			PVC	Shielded

M8 R/A SINGLE ENDED CABLE ASSEMBLY

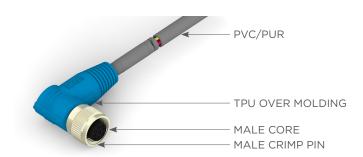
PN	Part Description	Pos	Type	Cable Material	Shielded/Unshielded
T4051420003-001	M8 FR 3P PUR CABLE 0.5M			PUR	Unshielded
T4061420003-001	M8 FR 3P PUR CABLE 0.5M SH	7		POR	Shielded
T4051410003-001	M8 FR 3P PVC CABLE 0.5M	3		PVC PUR	Unshielded
T4061410003-001	M8 FR 3P PVC CABLE 0.5M SH				Shielded
T4051420004-001	M8 FR 4P PUR CABLE 0.5M				Unshielded
T4061420004-001	M8 FR 4P PUR CABLE 0.5M SH				Shielded
T4051410004-001	M8 FR 4P PVC CABLE 0.5M	4		D) (C	Unshielded
T4061410004-001	M8 FR 4P PVC CABLE 0.5M SH			PVC	Shielded

PN	Part Description	Pos	Туре	Cable Material	Shielded/Unshielded
T4051220003-001	M8 MR 3P PUR CABLE 0.5M			PUR	Unshielded
T4061220003-001	M8 MR 3P PUR CABLE 0.5M SH	7	Male Right Angle	POR	Shielded
T4051210003-001	M8 MR 3P PVC CABLE0.5M	3		PVC	Unshielded
T4061210003-001	M8 MR 3P PVC CABLE 0.5M SH				Shielded
T4051220004-001	M8 MR 4P PUR CABLE 0.5M				Unshielded
T4061220004-001	M8 MR 4P PUR CABLE 0.5M SH	1			Shielded
T4051210004-001	M8 MR 4P PVC CABLE 0.5M	4		D) (C	Unshielded
T4061210004-001	M8 MR 4P PVC CABLE 0.5M SH			PVC	Shielded

M12 Single Ended Cable Assembly

M12 cable assemblies T415/T416 series

STANDARD: IEC61076-2-101



T41 S A X W Y C MN -OOL

s	Shield/Unshielded
5	Unshielded
6	Shield
Α	Single/Double End
1	Single end
2	Double end
Х	Connector Type for Single End
X	Connector Type for Single End M12 Straight, Male
1	M12 Straight, Male
1 2	M12 Straight, Male M12 Right angle, Male
1 2 3	M12 Straight, Male M12 Right angle, Male M12 Straight, Female
1 2 3	M12 Straight, Male M12 Right angle, Male M12 Straight, Female

2

MN	Position
03	3P
04	4P
05	5P
08	8P

Υ	Connector Type for Double End
0	N/A
1	M12 Straight, Male
2	M12 Right angle, Male
3	M12 Straight, Female
4	M12 Right angle, Female

С	Code
0	A Code

-OOL	Cable Length
-001	0.5M
-002	1.0M
-003	1.5M
-004	3.0M
-005	5.0M
-006	7.0M
-007	10.0M
-XXX	Customized Cable Length
-XXO	XX M
-XX5	XX.5 M

Wiring Diagram-M12 cable assembly Unshielded*

Gray PUR

From		T. D'.				
Pin	2 3 4		4	5	8	To Pin
1	Brown	Brown	Brown	Brown	White	1
2	-	-	White	White	Brown	2
3	Blue	Blue	Blue	Blue	Green	3
4	-	Black	Black	Black	Yellow	4
5	-	-	-	Gray	Gray	5
6	-	-	-	-	Pink	6
7	-	-	-	-	Blue	7
8	-	-	-	-	Red	8

 $^{^{\}ast}$ This wire diagram is applicable to all M12 cable assemblies listed in this flyer.

Wiring Diagram-M12 cable assembly Shielded*

From Pin		To Pin				
From Pin	2	3	4	5	8	10 PIN
1	Brown	Brown	Brown	Brown	White	1
2	-	-	White	White	Brown	2
3	Blue	Blue	Blue	Blue	Green	3
4	-	Black	Black	Black	Yellow	4
5	-	-	-	Gray	Gray	5
6	-	-	-	-	Pink	6
7	-	-	-	-	Blue	7
8	-	-	-	-	Red	8
Shielded	Metal Nut	Metal Nut	Metal Nut	Metal Nut	Metal Nut	Shielded

PRODUCT OFFERINGS - M12 A-Code Single Ended Cable Assembly

M12 A-CODE STR SINGLE ENDED CABLE ASSEMBLY

PN	Part Description	Code	Pos	Туре	Cable Materials	Shield/Unshielded
T4151320002-001	M12 FS 2P PUR CABLE 0.5M				DUD	Unshielded
T4161320002-001	M12 FS 2P PUR CABLE 0.5M SH				PUR	Shielded
T4151310002-001	M12 FS 2P PVC CABLE 0.5M		2		PVC	Unshielded
T4161310002-001	M12 FS 2P PVC CABLE 0.5M SH				PVC	Shielded
T4151320003-001	M12 FS 3P PUR CABLE 0.5M	-			PUR	Unshielded
T4161320003-001	M12 FS 3P PUR CABLE 0.5M SH		3		PUR	Shielded
T4151310003-001	M12 FS 3P PVC CABLE 0.5M		5	Female Straight	PVC	Unshielded
T4161310003-001	M12 FS 3P PVC CABLE 0.5M SH				PVC	Shielded
T4151320004-001	M12 FS 4P PUR CABLE 0.5M	A A			PUR	Unshielded
T4161320004-001	M12 FS 4P PUR CABLE 0.5M SH		4			Shielded
T4151310004-001	M12 FS 4P PVC CABLE 0.5M		4		PVC	Unshielded
T4161310004-001	M12 FS 4P PVC CABLE 0.5M SH				PVC	Shielded
T4151320005-001	M12 FS 5P PUR CABLE 0.5M				PUR	Unshielded
T4161320005-001	M12 FS 5P PUR CABLE 0.5M SH		5	_		Shielded
T4151310005-001	M12 FS 5P PVC CABLE 0.5M		5		PVC	Unshielded
T4161310005-001	M12 FS 5P PVC CABLE 0.5M SH				PVC	Shielded
T4151320008-001	M12 FS 8P PUR CABLE 0.5M				PUR	Unshielded
T4161320008-001	M12 FS 8P PUR CABLE 0.5M SH		8			Shielded
T4151310008-001	M12 FS 8P PVC CABLE 0.5M		8		D)/C	Unshielded
T4161310008-001	M12 FS 8P PVC CABLE 0.5M SH				PVC	Shielded

PN	Part Description	Code	Pos	Type	Cable Materials	Shield/Unshielded
T4151120002-001	M12 MS 2P PUR CABLE 0.5M				PUR	Unshielded
T4161120002-001	M12 MS 2P PUR CABLE 0.5M SH				TOIC	Shielded
T4151110002-001	M12 MS 2P PVC CABLE 0.5M		2		PVC	Unshielded
T4161110002-001	M12 MS 2P PVC CABLE 0.5M SH				1 00	Shielded
T4151120003-001	M12 MS 3P PUR CABLE 0.5M				PUR	Unshielded
T4161120003-001	M12 MS 3P PUR CABLE 0.5M SH		7		TOIC	Shielded
T4151110003-001	M12 MS 3P PVC CABLE 0.5M		3	Male Straight	PVC	Unshielded
T4161110003-001	M12 MS 3P PVC CABLE 0.5M SH			riale otraight	FVC	Shielded
T4151120004-001	M12 MS 4P PUR CABLE 0.5M	A A			PUR	Unshielded
T4161120004-001	M12 MS 4P PUR CABLE 0.5M SH		4			Shielded
T4151110004-001	M12 MS 4P PVC CABLE 0.5M		4		PVC	Unshielded
T4161110004-001	M12 MS 4P PVC CABLE 0.5M SH					Shielded
T4151120005-001	M12 MS 5P PUR CABLE 0.5M					Unshielded
T4161120005-001	M12 MS 5P PUR CABLE 0.5M SH		_		TOIC	Shielded
T4151110005-001	M12 MS 5P PVC CABLE 0.5M		5		PVC	Unshielded
T4161110005-001	M12 MS 5P PVC CABLE 0.5M SH					Shielded
T4151120008-001	M12 MS 8P PUR CABLE 0.5M				PUR	Unshielded
T4161120008-001	M12 MS 8P PUR CABLE 0.5M SH				1010	Shielded
T4151110008-001	M12 MS 8P PVC CABLE 0.5M		8		PVC	Unshielded
T4161110008-001	M12 MS 8P PVC CABLE 0.5M SH				1 0	Shield

M12 A-CODE R/A SINGLE ENDED CABLE ASSEMBLY

PN	Part Description	Code	Pos	Type	Cable Materials	Shield/Unshielded
T4151420002-001	M12 FR 2P PUR CABLE 0.5M				DUD	Unshielded
T4161420002-001	M12 FR 2P PUR CABLE 0.5M SH				PUR	Shield
T4151410002-001	M12 FR 2P PVC CABLE 0.5M		2		PVC	Unshielded
T4161410002-001	M12 FR 2P PVC CABLE 0.5M SH					Shield
T4151420003-001	M12 FR 3P PUR CABLE 0.5M				PUR	Unshielded
T4161420003-001	M12 FR 3P PUR CABLE 0.5M SH		3		PUR	Shield
T4151410003-001	M12 FR 3P PVC CABLE 0.5M		5	Female	PVC	Unshielded
T4161410003-001	M12 FR 3P PVC CABLE 0.5M SH				PVC	Shield
T4151420004-001	M12 FR 4P PUR CABLE 0.5M				PUR	Unshielded
T4161420004-001	M12 FR 4P PUR CABLE 0.5M SH		4			Shield
T4151410004-001	M12 FR 4P PVC CABLE 0.5M	A	4		PVC	Unshielded
T4161410004-001	M12 FR 4P PVC CABLE 0.5M SH				PVC	Shield
T4151420005-001	M12 FR 5P PUR CABLE 0.5M				PUR	Unshielded
T4161420005-001	M12 FR 5P PUR CABLE 0.5M SH		5			Shield
T4151410005-001	M12 FR 5P PVC CABLE 0.5M		5			Unshielded
T4161410005-001	M12 FR 5P PVC CABLE 0.5M SH				PVC	Shield
T4151420008-001	M12 FR 8P PUR CABLE 0.5M				DUD	Unshielded
T4161420008-001	M12 FR 8P PUR CABLE 0.5M SH				PUR	Shield
T4151410008-001	M12 FR 8P PVC CABLE 0.5M		8		PVC	Unshielded
T4161410008-001	M12 FR 8P PVC CABLE 0.5M SH				PVC	Shield

PN	Part Description	Code	Pos	Type	Cable Materials	Shield/Unshielded
T4151220002-001	M12 MR 2P PUR CABLE 0.5M				DLID	Unshielded
T4161220002-001	M12 MR 2P PUR CABLE 0.5M SH		2		PUR	Shield
T4151210002-001	M12 MR 2P PVC CABLE 0.5M				PVC	Unshielded
T4161210002-001	M12 MR 2P PVC CABLE 0.5M SH				PVC	Shield
T4151220003-001	M12 MR 3P PUR CABLE 0.5M				PUR	Unshielded
T4161220003-001	M12 MR 3P PUR CABLE 0.5M SH		3		PUR	Shield
T4151210003-001	M12 MR 3P PVC CABLE 0.5M		5	Male	PVC	Unshielded
T4161210003-001	M12 MR 3P PVC CABLE 0.5M SH				PVC	Shield
T4151220004-001	M12 MR 4P PUR CABLE 0.5M				PUR	Unshielded
T4161220004-001	M12 MR 4P PUR CABLE 0.5M SH	_	4		POR	Shield
T4151210004-001	M12 MR 4P PVC CABLE 0.5M	Α	4		PVC	Unshielded
T4161210004-001	M12 MR 4P PVC CABLE 0.5M SH				PVC	Shield
T4151220005-001	M12 MR 5P PUR CABLE 0.5M				PUR	Unshielded
T4161220005-001	M12 MR 5P PUR CABLE 0.5M SH		5		PUR	Shield
T4151210005-001	M12 MR 5P PVC CABLE 0.5M		5		PVC	Unshielded
T4161210005-001	M12 MR 5P PVC CABLE 0.5M SH				PVC	Shield
T4151220008-001	M12 MR 8P PUR CABLE 0.5M				PUR	Unshielded
T4161220008-001	M12 MR 8P PUR CABLE 0.5M SH		0		PUR	Shield
T4151210008-001	M12 MR 8P PVC CABLE 0.5M		8		PVC	Unshielded
T4161210008-001	M12 MR 8P PVC CABLE 0.5M SH				PVC	Shield

PRODUCT OFFERINGS - M8 to M8 Double Ended Cable Assembly

M8 MALE STR - FEMALE STR DOUBLE ENDED CABLE ASSEMBLY

PN	Part Description	Pos	Туре	Cable Materials	Shield/ Unshielded
T4052123003-001	M8 MS 3P - M8 FS 3P PUR CABLE 0.5M			PUR	Unshielded
T4062123003-001	M8 MS 3P - M8 FS 3P PUR CABLE 0.5M SH	3	MS-FS		Shield
T4052113003-001	M8 MS 3P - M8 FS 3P PVC CABLE 0.5M			PVC	Unshielded
T4062113003-001	M8 MS 3P - M8 FS 3P PVC CABLE 0.5M SH				Shield
T4052123004-001	M8 MS 4P - M8 FS 4P PUR CABLE 0.5M				Unshielded
T4062123004-001	M8 MS 4P - M8 FS 4P PUR CABLE 0.5M SH	4		PUR	Shield
T4052113004-001	M8 MS 4P - M8 FS 4P PVC CABLE 0.5M			PVC	Unshielded
T4062113004-001	M8 MS 4P - M8 FS 4P PVC CABLE 0.5M SH				Shield

M8 MALE STR - FEMALE R/A DOUBLE ENDED CABLE ASSEMBLY

PN	Part Description	Pos	Туре	Cable Materials	Shield/ Unshielded
T4052124003-001	M8 MS 3P - M8 FR 3P PUR CABLE 0.5M			PUR	Unshielded
T4062124003-001	M8 MS 3P - M8 FR 3P PUR CABLE 0.5M SH	3	MS-FR	PUR	Shield
T4052114003-001	M8 MS 3P - M8 FR 3P PVC CABLE 0.5M			PVC	Unshielded
T4062114003-001	M8 MS 3P - M8 FR 3P PVC CABLE 0.5M SH				Shield
T4052124004-001	M8 MS 4P - M8 FR 4P PUR CABLE 0.5M				Unshielded
T4062124004-001	M8 MS 4P - M8 FR 4P PUR CABLE 0.5M SH	1		PUR	Shield
T4052114004-001	M8 MS 4P - M8 FR 4P PVC CABLE 0.5M	4		D) (C	Unshielded
T4062114004-001	M8 MS 4P - M8 FR 4P PVC CABLE 0.5M SH			PVC	Shield

M8 MALE R/A - FEMALE R/A DOUBLE ENDED CABLE ASSEMBLY

PN	Part Description	Pos	Туре	Cable Materials	Shield/ Unshielded
T4052224003-001	M8 MR 3P - M8 FR 3P PUR CABLE 0.5M			PUR	Unshielded
T4062224003-001	M8 MR 3P - M8 FR 3P PUR CABLE 0.5M SH	3	MR-FR	PUR	Shield
T4052214003-001	M8 MR 3P - M8 FR 3P PVC CABLE 0.5M		6	PVC	Unshielded
T4062214003-001	M8 MR 3P - M8 FR 3P PVC CABLE 0.5M SH				Shield
T4062224004-001	M8 MR 4P - M8 FR 3P PUR CABLE 0.5M				Unshielded
T4052224004-001	M8 MR 4P - M8 FR 3P PUR CABLE 0.5M SH	4			Shield
T4062214004-001	M8 MR 4P - M8 FR 3P PVC CABLE 0.5M			PVC	Unshielded
T4052214004-001	M8 MR 4P - M8 FR 3P PVC CABLE 0.5M SH			PVC	Shield

M8 MALE R/A - FEMALE STR DOUBLE ENDED CABLE ASSEMBLY

PN	Part Description	Pos	Туре	Cable Materials	Shield/ Unshielded
T4062223003-001	M8 MR 3P - M8 FS 3P PUR CABLE 0.5M			PUR	Unshield
T4052223003-001	M8 MR 3P - M8 FS 3P PUR CABLE 0.5M SH	3	MR-FS	PUR	Shielded
T4062213003-001	M8 MR 3P - M8 FS 3P PVC CABLE 0.5M			PVC	Unshield
T4052213003-001	M8 MR 3P - M8 FS 3P PVC CABLE 0.5M SH				Shielded
T4052223004-001	M8 MR 4P - M8 FS 3P PUR CABLE 0.5M				Unshielded
T4062223004-001	M8 MR 4P - M8 FS 3P PUR CABLE 0.5M SH	4		PUR	Shield
T4052213004-001	M8 MR 4P - M8 FS 3P PVC CABLE 0.5M			PVC	Unshielded
T4062213004-001	M8 MR 4P - M8 FS 3P PVC CABLE 0.5M SH			PVC	Shield

PRODUCT OFFERINGS - M12 to M12 A-Code Double Ended Cable Assembly

M12 A-CODE MALE STR - FEMALE STR DOUBLE ENDED CABLE ASSEMBLY

PN	Part Description	Pos	Туре	Code	Cable Materials	Shield/ Unshielded
T4152123002-001	M12 MS 2P - M12 FS 2P PUR CABLE 0.5M	- 2			PUR -	Unshielded
T4162123002-001	M12 MS 2P - M12 FS 2P PUR CABLE 0.5M SH				PUR	Shield
T4152113002-001	M12 MS 2P - M12 FS 2P PVC CABLE 0.5M				PVC	Unshielded
T4162113002-001	M12 MS 2P - M12 FS 2P PVC CABLE 0.5M SH				PVC	Shield
T4152123003-001	M12 MS 3P - M12 FS 3P PUR CABLE 0.5M				PUR -	Unshielded
T4162123003-001	M12 MS 3P - M12 FS 3P PUR CABLE 0.5M SH		MS-FS	А	PUR	Shield
T4152113003-001	M12 MS 3P - M12 FS 3P PVC CABLE 0.5M				PVC -	Unshielded
T4162113003-001	M12 MS 3P - M12 FS 3P PVC CABLE 0.5M SH					Shield
T4152123004-001	M12 MS 4P - M12 FS 4P PUR CABLE 0.5M				PUR	Unshielded
T4162123004-001	M12 MS 4P - M12 FS 4P PUR CABLE 0.5M SH					Shield
T4152113004-001	M12 MS 4P - M12 FS 4P PVC CABLE 0.5M	4			D) (C	Unshielded
T4162113004-001	M12 MS 4P - M12 FS 4P PVC CABLE 0.5M SH				PVC	Shield
T4152123005-001	M12 MS 5P - M12 FS 5P PUR CABLE 0.5M				DUD	Unshielded
T4162123005-001	M12 MS 5P - M12 FS 5P PUR CABLE 0.5M SH	1_			PUR -	Shield
T4152113005-001	M12 MS 5P - M12 FS 5P PVC CABLE 0.5M	5			DVC	Unshielded
T4162113005-001	M12 MS 5P - M12 FS 5P PVC CABLE 0.5M SH				PVC	Shield

M12 A-CODE MALE R/A - FEMALE R/A DOUBLE ENDED CABLE ASSEMBLY

PN	Part Description	Pos	Туре	Code	Cable Materials	Shield/ Unshielded
T4152224002-001	M12 MR 2P - M12 FR 2P PUR CABLE 0.5M				PUR -	Unshielded
T4162224002-001	M12 MR 2P - M12 FR 2P PUR CABLE 0.5M SH	2			PUR	Shield
T4152214002-001	M12 MR 2P - M12 FR 2P PVC CABLE 0.5M	- 3			PVC	Unshielded
T4162214002-001	M12 MR 2P - M12 FR 2P PVC CABLE 0.5M SH				PVC	Shield
T4152224003-001	M12 MR 3P - M12 FR 3P PUR CABLE 0.5M				PUR -	Unshielded
T4162224003-001	M12 MR 3P - M12 FR 3P PUR CABLE 0.5M SH		MS-FS	А		Shield
T4152214003-001	M12 MR 3P - M12 FR 3P PVC CABLE 0.5M				PVC -	Unshielded
T4162214003-001	M12 MR 3P - M12 FR 3P PVC CABLE 0.5M SH					Shield
T4152224004-001	M12 MR 4P - M12 FR 4P PUR CABLE 0.5M				PUR	Unshielded
T4162224004-001	M12 MR 4P - M12 FR 4P PUR CABLE 0.5M SH	4				Shield
T4152214004-001	M12 MR 4P - M12 FR 4P PVC CABLE 0.5M	4			PVC	Unshielded
T4162214004-001	M12 MR 4P - M12 FR 4P PVC CABLE 0.5M SH				PVC	Shield
T4152224005-001	M12 MR 5P - M12 FR 5P PUR CABLE 0.5M				PUR -	Unshielded
T4162224005-001	M12 MR 5P - M12 FR 5P PUR CABLE 0.5M SH	5			PUR	Shield
T4152214005-001	M12 MR 5P - M12 FR 5P PVC CABLE 0.5M				PVC	Unshielded
T4162214005-001	M12 MR 5P - M12 FR 5P PVC CABLE 0.5M SH				PVC	Shield

PRODUCT OFFERINGS - M12 to M12 A-Code Double Ended Cable Assembly

M12 A-CODE MALE STR - FEMALE R/A DOUBLE ENDED CABLE ASSEMBLY

PN	Part Description	Pos	Туре	Code	Cable Materials	Shield/ Unshielded
T4152124002-001	M12 MS 2P - M12 FR 2P PUR CABLE 0.5M	2 - 3			PUR -	Unshielded
T4162124002-001	M12 MS 2P - M12 FR 2P PUR CABLE 0.5M SH				PUR	Shield
T4152114002-001	M12 MS 2P - M12 FR 2P PVC CABLE 0.5M				PVC	Unshielded
T4162114002-001	M12 MS 2P - M12 FR 2P PVC CABLE 0.5M SH					Shield
T4152124003-001	M12 MS 3P - M12 FR 3P PUR CABLE 0.5M				PUR -	Unshielded
T4162124003-001	M12 MS 3P - M12 FR 3P PUR CABLE 0.5M SH		MS-FR	А		Shield
T4152114003-001	M12 MS 3P - M12 FR 3P PVC CABLE 0.5M				PVC -	Unshielded
T4162114003-001	M12 MS 3P - M12 FR 3P PVC CABLE 0.5M SH					Shield
T4152124004-001	M12 MS 4P - M12 FR 4P PUR CABLE 0.5M				PUR	Unshielded
T4162124004-001	M12 MS 4P - M12 FR 4P PUR CABLE 0.5M SH					Shield
T4152114004-001	M12 MS 4P - M12 FR 4P PVC CABLE 0.5M	4			PVC	Unshielded
T4162114004-001	M12 MS 4P - M12 FR 4P PVC CABLE 0.5M SH				PVC	Shield
T4152124005-001	M12 MS 5P - M12 FR 5P PUR CABLE 0.5M				DUD	Unshielded
T4162124005-001	M12 MS 5P - M12 FR 5P PUR CABLE 0.5M SH				PUR	Shield
T4152114005-001	M12 MS 5P - M12 FR 5P PVC CABLE 0.5M	5			PVC	Unshielded
T4162114005-001	M12 MS 5P - M12 FR 5P PVC CABLE 0.5M SH				PVC	Shield

M12 A-CODE MALE R/A - FEMALE STR DOUBLE ENDED CABLE ASSEMBLY

PN	Part Description	Pos	Type	Code	Cable Materials	Shield/ Unshielded
T4152223002-001	M12 MR 2P - M12 FS 2P PUR CABLE 0.5M	2 - 3			PUR -	Unshielded
T4162223002-001	M12 MR 2P - M12 FS 2P PUR CABLE 0.5M SH				PUR	Shield
T4152213002-001	M12 MR 2P - M12 FS 2P PVC CABLE 0.5M				PVC -	Unshielded
T4162213002-001	M12 MR 2P - M12 FS 2P PVC CABLE 0.5M SH				PVC	Shield
T4152223003-001	M12 MR 3P - M12 FS 3P PUR CABLE 0.5M				PUR -	Unshielded
T4162223003-001	M12 MR 3P - M12 FS 3P PUR CABLE 0.5M SH		MR-FS	А		Shield
T4152213003-001	M12 MR 3P - M12 FS 3P PVC CABLE 0.5M				PVC -	Unshielded
T4162213003-001	M12 MR 3P - M12 FS 3P PVC CABLE 0.5M SH					Shield
T4152223004-001	M12 MR 4P - M12 FS 4P PUR CABLE 0.5M				PUR	Unshielded
T4162223004-001	M12 MR 4P - M12 FS 4P PUR CABLE 0.5M SH	4				Shield
T4152213004-001	M12 MR 4P - M12 FS 4P PVC CABLE 0.5M	4			PVC	Unshielded
T4162213004-001	M12 MR 4P - M12 FS 4P PVC CABLE 0.5M SH				PVC	Shield
T4152223005-001	M12 MR 5P - M12 FS 5P PUR CABLE 0.5M				PUR -	Unshielded
T4162223005-001	M12 MR 5P - M12 FS 5P PUR CABLE 0.5M SH	_			PUR	Shield
T4152213005-001	M12 MR 5P - M12 FS 5P PVC CABLE 0.5M	5			PVC -	Unshielded
T4162213005-001	M12 MR 5P - M12 FS 5P PVC CABLE 0.5M SH				PVC	Shield

PRODUCT OFFERINGS - M8 to M12 Double Ended Cable Assembly

M8 FEMALE STR - M12 MALE STR DOUBLE ENDED CABLE ASSEMBLY

PN	Part Description	Pos	Type	Cable Materials	Shield/Unshielded
T4052325003-001	M8 3P FS - M12 3P MS PUR CABLE 0.5M	3	M8 FS - M12 MS	PUR	
T4052315003-001	M8 3P FS - M12 3P MS PVC CABLE 0.5M	3		PVC	Unshielded
T4052325004-001	M8 4P FS - M12 4P MS PUR CABLE 0.5M	4		PUR	Onshielded
T4052315004-001	M8 4P FS - M12 4P MS PVC CABLE 0.5M	4		PVC	

M8 FEMALE STR - M12 MALE R/A DOUBLE ENDED CABLE ASSEMBLY

PN	Part Description	Pos	Type	Cable Materials	Shield/Unshielded
T4052326003-001	M8 3P FS - M12 3P MR PUR CABLE 0.5M	3	M8 FS -M12 MR	PUR	
T4052316003-001	M8 3P FS - M12 3P MR PVC CABLE 0.5M	3		PVC	
T4052326004-001	M8 4P FS - M12 4P MR PUR CABLE 0.5M	4		PUR	Unshielded
T4052316004-001	M8 4P FS - M12 4P MR PVC CABLE 0.5M	4		PVC	

M8 FEMALE R/A - M12 MALE STR DOUBLE ENDED CABLE ASSEMBLY

PN	Part Description		Type	Cable Materials	Shield/Unshielded	
T4052425003-001	M8 3P FR - M12 3P MS PUR CABLE 0.5M	7	M8 FR -M12 MS	PUR		
T4052415003-001	M8 3P FR - M12 3P MS PVC CABLE 0.5M	5		PVC	l la destala d	
T4052425004-001	M8 4P FR - M12 4P MS PUR CABLE 0.5M	4		PUR	Unshielded	
T4052415004-001	M8 4P FR - M12 4P MS PVC CABLE 0.5M	4		PVC		

M8 FEMALE R/A - M12 MALE R/A DOUBLE ENDED CABLE ASSEMBLY

PN	Part Description		Type	Cable Materials	Shield/Unshielded
T4052426003-001	M8 3P FR - M12 3P MR PUR CABLE 0.5M	7	M8 FR -M12 MR	PUR	
T4052416003-001	M8 3P FR - M12 3P MR PVC CABLE 0.5M	3	2	PVC	
T4052426004-001	M8 4P FR - M12 4P MR PUR CABLE 0.5M	4		PUR	Unshielded
T4052416004-001	M8 4P FR - M12 4P MR PVC CABLE 0.5M	4		PVC	

PRODUCT OFFERINGS - M8 to M12 Double Ended Cable Assembly

M8 MALE STR - M12 FEMALE STR DOUBLE ENDED CABLE ASSEMBLY

PN	Part Description		Type	Cable Materials	Shield/Unshielded
T4052127003-001	M8 3P MS - M12 3P FS PUR CABLE 0.5M	3	M8 MS -M12 FS	PUR	
T4052117003-001	M8 3P MS - M12 3P FS PVC CABLE 0.5M	3		PVC	Unshielded
T4052127004-001	M8 4P MS - M12 4P FS PUR CABLE 0.5M		(1) a)	PUR	Onshielded
T4052117004-001	M8 4P MS - M12 4P FS PVC CABLE 0.5M	4		PVC	

M8 MALE STR - M12 FEMALE R/A DOUBLE ENDED CABLE ASSEMBLY

PN	Part Description		Type	Cable Materials	Shield/Unshielded
T4052128003-001	M8 3P MS - M12 3P FR PUR CABLE 0.5M	7	M8 MS -M12 FR	PUR	
T4052118003-001	M8 3P MS - M12 3P FR PVC CABLE 0.5M	3		PVC	
T4052128004-001	M8 4P MS - M12 4P FR PUR CABLE 0.5M	4	(a) (a)	PUR	Unshielded
T4052118004-001	M8 4P MS - M12 4P FR PVC CABLE 0.5M	4		PVC	

M8 MALE R/A - M12 FEMALE STR DOUBLE ENDED CABLE ASSEMBLY

PN	Part Description		Type	Cable Materials	Shield/Unshielded	
T4052227003-001	M8 3P MR - M12 3P FS PUR CABLE 0.5M	7	M8 MR -M12 FS	PUR		
T4052217003-001	M8 3P MR - M12 3P FS PVC CABLE 0.5M	5		PVC	Harletaldad	
T4052227004-001	M8 4P MR - M12 4P FS PUR CABLE 0.5M	4		PUR	Unshielded	
T4052217004-001	M8 4P MR - M12 4P FS PVC CABLE 0.5M	4		PVC		

M8 MALE R/A - M12 FEMALE R/A DOUBLE ENDED CABLE ASSEMBLY

PN	Part Description		Type	Cable Materials	Shield/Unshielded
T4052228003-001	M8 3P MR - M12 3P FR PUR CABLE 0.5M	7	M8 MR - M12 FR	PUR	
T4052218003-001	M8 3P MR - M12 3P FR PVC CABLE 0.5M	3		PVC	Unshielded
T4052228004-001	M8 4P MR - M12 4P FR PUR CABLE 0.5M	4		PUR	Unshleided
T4052218004-001	M8 4P MR - M12 4P FR PVC CABLE 0.5M	4		PVC	

Cable Specifications

M8 UNSHIELDED CABLE ASSEMBLIES

M8 cable assembly unshielded PVC series

M8 cable assembly unshielded PUR series

	PV	/C	Р	PUR		
lmage						
No. of conductors	3	4	3	4		
Jacket material	P\	/C	PUR			
Jacket color	Bla	nck	G	Gray		
Cross section	24A	WG	24,	24AWG		
Contruction	32/0.	l0mm	32/0	32/0.10mm		
Temp range-Fixed	-10°C	-80°C	-40°(C-80°C		
Temp range-Flexible	-5°C-	80°C	-25°C	-25°C-80°C		
Features	Flame Reta	Flame Retardant, Rohs		Flame Retardant, oil resistant, Rohs		
Standards	UL758, UL15	581, UL2464	UL758, UL1	UL758, UL1581, UL20549		

M8 SHIELDED CABLE ASSEMBLIES

M8 cable assembly shielded PVC series

M8 cable assembly shielded PUR series

	PV	VC .	PUR			
Image						
No. of conductors	3	4	3	4		
Jacket material	ÞΛ	VC .	P	PUR		
Jacket color	Bla	ack	Gray			
Cross section	24A	WG	24AWG			
Contruction	Shield1: /	n: 32/0.10mm AL/Mylar d copper braid	Shield1:	n: 32/0.10mm AL/Mylar d copper braid		
Temp range-Fixed	-10°C	-80°C	-40°C	C-80°C		
Temp range-Flexible	-5°C-	80°C	-25°C-80°C			
Features	Flame Reta	rdant, Rohs	Flame Retardant, oil resistant, Rohs			
Standards	UL758, UL1	581, UL2464	UL758, UL1581, UL20549			

M12 UNSHIELDED CABLE ASSEMBLIES

M12 PVC cable assembly unshielded series

M12 PUR cable assembly unshielded series

Image			PVC			PUR				
No. of conductors	2	3	4	5	8	2	3	4	5	8
Jacket material			PVC			PUR				
Jacket color			Black			Gray				
Cross section			22AWG			22AWG	22AWG	22AWG	22AWG	24AWG
Contruction	43/0.10mm	43/0.10mm	43/0.10mm	43/0.10mm	32/0.10mm	43/0.10mm	43/0.10mm	43/0.10mm	43/0.10mm	32/0.10mm
Temp range-Fixed			-10°C-80°C			-40°C-80°C				
Temp range- Flexible	-5°C-80°C				-25°C-80°C					
Features	Flame Retardant, Rohs					Flame Retardant, oil resistant, Rohs				
Standards		UL75	8, UL1581, UL	.2464			UL758	B, UL1581, UL	20549	

M12 SHIELDED CABLE ASSEMBLIES

M12 cable assembly shielded series

M12 cable assembly shielded series

Image	PVC				PUR						
No. of conductors	2	3	4	5	8	2	3	4	5	8	
Jacket material		PVC					PUR				
Jacket color				Black	<	Gray					
Cross section	22AWG	22AWG	22AWG	22AWG	24AWG	22AWG	22AWG	22AWG	22AWG	24AWG	
Contruction		struction Shield1: A I2: Tinne	AL/Mylar		Construction: 32/0.10mm Shield1: AL/Mylar Shield2: Tinned copper braid	Construction: 43/0.10mm Shield1: AL/Mylar Shield2: Tinned copper braid Construction: 2/0.10mm Shield1: AL/Mylar Shield2: Tinned copper braid				,	
Temp range-Fixed				-10°C-80	0°C				-40°C-	80°C	
Temp range- Flexible	-5°C-80°C				-25°C-80°C				30°C		
Features			Flam	e Retard	ant, Rohs		Fla	ame Reta	ardant, o	il resistant, Rohs	
Standards			UL75	8, UL158	1, UL2464	UL758, UL1581, UL20549					

M12 FIELDBUS CABLE ASSEMBLY SOLUTIONS

TE now complements its' Sensor/Actuator cable assemblies with Data Communication solutions by introducing the Fieldbus cable assemblies. First developed more than two decades ago, many different field networks still continue to dominate Industrial automation and process control. Fieldbus networks seems to be very practical at the lowest level of the automation pyramid and are critical element of Industry 4.0, IIoT and beyond for end devices that do not require the bandwidth but do need the ability to have power and signal in the same cable.

The new A and B-coded M12 cable assemblies comply with Profibus, DeviceNet and CC-link protocols, offering multiple options for a variety of needs that makes TE an one-stop shop. They have 360-degree shielding against EMI for complete protection for signal and data transmission, and are rated IP67 for resistance to dust and water. The assemblies are overmolded in either PVC or halogen-free polyurethane (PUR) cables, suitable for drag chain applications or torsional stress, depending on customer performance requirements.



Assemblies are produced in many customer-specific plug-and-play configurations to enable design flexibility and quick installation in most industrial environments. Applications for the new assemblies lie in numerous areas of industry, including process control systems, robotics and automation, production equipment, machine tools and material handling.

TE's Fieldbus M12 cable assemblies are available as single-ended or double-ended, in straight and angled versions, all shielded variants. Various cable types are offered depending on the application requirements. The predefined offering in length of 0.5, to 15 meters covers a vast range of customer needs on the market, while customized cable assemblies in different lengths provide a solution for specific needs. All can be used in combination with TE's male/female connectors.

KEY FEATURES

- IP67 rated: dust and waterproof
- Overmolded PVC or PUR cable assemblies/Shielded
- Key options: A, B coded
- M12 Positions: 2, 4, 5 pos
- M12 B-coded 5-pole for Profibus applications
- M12 A-code 5pos for DeviceNet applications
- M12 A-code 4pos for CC-link applications
- Cable length options: 0.5 m, 1 m, 2m, 4m, 6m, 8m, 10m and 15m.

BENEFITS

- Maximum signal transmission
- Reduced noise and interference
- · Maximum installation versatility
- Cable types variations for drag chain and torsion

APPLICATIONS

- Industrial communications
- · Industrial machinery
- · Industrial automation
- · Machine tools
- Robotics
- Material handling
- · Process control systems

ELECTRICAL

- · Voltage and current rating:
- M12 A code 4 poles: 250V/4A
- M12 A code 5 poles: 60V/4A
- M12 B code 2 poles: 250V/4A

MECHANICAL

- Durability: 100 cycles
- Degree of protection: IP67
- Temperature ratings:
- Profibus PUR:
 - Fixed: -40°C to +80°C Flexible: -40°C to +75°C
- Profibus PUR torsion:
 Operating temperature -25°C to +75°C
- DeviceNet PVC: Operating temperature -20°C to +75°C
- DeviceNet PUR: Operating temperature -40°C to +80°C
- CC-Link PVC: Operating temperature -30°C to +60°C

MATERIALS

- Contact: Brass, Gold plating
- · Nut & Shells: Brass, Nickel plating
- O-ring: Silicon rubber
- Over-molding: TPU/PVC
- · Housing: PA
- PROFIBUS® M12 Cable Assy B-code 2-pole 1x2x22AWG PUR Drag Chain
- PROFIBUS®M12 Cable Assy B-code 2-pole 1x2x24AWG PUR Torsion
- DeviceNet[™] M12 Cable Assy A-code 5-pole 2x24AWG+2x22AWG Thin Violet PUR
- DeviceNet[™] M12 Cable Assy A-code 5-pole 2x24AWG+2x22AWG Thin Gray PVC
- CC-Link® M12 Cable Assy A-code 4pos 3 conductor 20AWG Red PVC

SPECIFICATIONS

- Product specification: 108-106140
- Application specification: 114-137144
- UL standard: UL2238
- IEC 61076-2-101: Detail specification for M12 connectors with screw-locking
- IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods
- IEC-60529: Degree of protection provided by enclosures (IP Code)

PRODUCT OFFERINGS - CC-LINK M12 A-CODE 4POS CABLE ASSEMBLIES SINGLE ENDED

Part Number	Part Description	Application	Code	POS	Туре	Cable Material	Shielded
TAA541B1411-001	M12A4-MS-PVC-0.5M				Male / Female Straight	PVC Red 20AWG	
TAA543B1411-001	M12A4-FS-PVC-0.5M	CC-Link	A	4			Yes
TAA544B1411-001	M12A4-FR-PVC-0.5M	(10Mbs)	A	7	Male / Female R/A		163
TAA542B1411-001	M12A4-MR-PVC-0.5M						

PRODUCT OFFERINGS - CC-LINK M12 A-CODE 4POS CABLE ASSEMBLIES DOUBLE ENDED

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TAA545B1411-001	M12A4-MS-FS- PVC-0.5M				MS-FS	PVC Red 20AWG	
TAA54AB1411-001	M12A4-MR-FS- PVC-0.5M	CC-Link (10Mbs)	А	4	MR-FS / MS-FR		Yes
TAA546B1411-001	M12A4-MS-FR- PVC-0.5M						

PRODUCT OFFERINGS - **DEVICENET M12 A-CODE 5POS CABLE ASSEMBLIES SINGLE ENDED PUR**

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TAA751A5501-001	M12A5-MS-PUR-0.5M	DeviceNet (500Kbs)	А	5	Male / Female Straight Male / Female R/A	PUR Violet 2x24AWG+2x22 AWG	Yes
TAA753A5501-001	M12A5-FS-PUR-0.5M						
TAA754A5501-001	M12A5-FR-PUR-0.5M						
TAA752A5501-001	M12A5-MR-PUR-0.5M						

PRODUCT OFFERINGS - DEVICENET M12 A-CODE 5POS CABLE ASSEMBLIES DOUBLE ENDED PUR

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TAA755A5501-001	M12A5-MS-FS-PUR-0.5M				MS-FS	PUR Violet 2x24AWG+2x 22AWG	
TAA75AA5501-001	M12A5-MR-FS-PUR-0.5M	DeviceNet (500Kbs)	А	5	MR-FS / MS-FR		Yes
TAA756A5501-001	M12A5-MS-FR-PUR-0.5M					(3)	

PRODUCT OFFERINGS - DEVICENET M12 A-CODE 5POS CABLE ASSEMBLIES SINGLE ENDED PVC

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TAA751A1611-001	M12A5-MS-PVC-0.5M	DeviceNet (500Kbs) A	А	5	Male / Female Straight Male / Female R/A	PVC Gray 2x24AWG+2x22AWG	Yes
TAA753A1611-001	M12A5-FS-PVC-0.5M						
TAA754A1611-001	M12A5-FR-PVC-0.5M						
TAA752A1611-001	M12A5-MR-PVC-0.5M				8		

PRODUCT OFFERINGS - DEVICENET M12 A-CODE 5POS CABLE ASSEMBLIES DOUBLE ENDED PVC

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TAA755A1611-001	M12A5-MS-FS-PVC-0.5M				MS-FS	PVC Gray 2x24AWG+2x22 AWG	
TAA75AA1611-001	M12A5-MR-FS-PVC-0.5M	DeviceNet (500Kbs)	A	5	MR-FS / MS-FR		Yes
TAA756A1611-001	M12A5-MS-FR-PVC-0.5M				6	8	

PRODUCT OFFERINGS - PROFIBUS M12 B-CODE 2-POS CABLE ASSEMBLIES SINGLE ENDED PUR TORSION

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TAB62146501-001	M12B2-MS-PUR TORS-0.5M	Profibus DP (12Mbs)	В	2	Male / Female Straight	PUR Torsion 22AWG Violet	V
TAB62346501-001	M12B2-FS-PUR TORS-0.5M						
TAB62446501-001	M12B2-FR-PUR TORS-0.5M				Male / Female R/A	©	Yes
TAB62246501-001	M12B2-MR-PUR TORS-0.5M						

PRODUCT OFFERINGS - PROFIBUS M12 B-CODE 2-POS CABLE ASSEMBLIES DOUBLE ENDED PUR TORSION

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TAB62546501-001	M12B2-MS-FS-PUR/T-0.5M	Profibus DP (12Mbs)		2	MS-FS MR-FS / MS-FR	PUR Torsion 22AWG Violet	Yes
TAB62A46501-001	M12B2-MR-FS-PUR/T-0.5M		В				
TAB62646501-001	M12B2-MS-FR-PUR/T-0.5M					©	

PRODUCT OFFERINGS - PROFIBUS M12 B-CODE 2-POS CABLE ASSEMBLIES SINGLE ENDED PUR FLEX/DRAG CHAIN

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TAB62135501-001	M12B2-MS-PUR Flex-0.5M	Profibus DP (12Mbs)	В	2	Male / Female Straight Male / Female R/A	PUR Flex/Drag Chain 24AWG Violet	Yes
TAB62335501-001	M12B2-FS-PUR Flex-0.5M						
TAB62435501-001	M12B2-FR-PUR Flex-0.5M						
TAB62235501-001	M12B2-MR-PUR Flex-0.5M						

PRODUCT OFFERINGS - PROFIBUS M12 B-CODE 2-POS CABLE ASSEMBLIES DOUBLE ENDED PUR FLEX/DRAG CHAIN

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TAB62535501-001	M12B2-MS-FS- PURFlex-0.5M				MS-FS	PUR Flex/Drag Chain 24AWG Violet	
TAB62A35501-001	M12B2-MR-FS- PURFlex0.5M	Profibus DP (12Mbs)	В	2	MR-FS / MS-FR		Yes
TAB62635501-001	M12B2-MS-FR- PURFlex-0.5M						

OOL	Cable Length
-001	0.5M
-002	1.0M
-020	2.0M
-040	4.0M
-060	6.0M
-080	8.0M
-007	10.0M
-150	15.0M

-XXX	Customized Cable Length
-XXO	XXM
-XX5	XX.5M

M12 INDUSTRIAL ETHERNET D-CODE CABLE ASSEMBLIES

TE Connectivity offers M12 data cable assemblies with D-code interfaces that support Ethernet protocols as part of its package of Industrial Ethernet and Fieldbus solutions. The Cat5e cable jackets vary between PVC, PUR and TPE offer a unique solution toward satisfying the stringent needs of motion systems supporting both flexing and stationary industrial Ethernet requirements.

TE's portfolio is further complemented with overmolded M12 D-code to RJ45 configurations which are key components to an overall Industrial Ethernet application and designed for connection within control cabinets, machinery and in-the-field operations.



This makes it the one-stop shop for M8/M12 cable assemblies for Industrial Network communications.

TE has enriched its already large offering in Fieldbus connectivity solutions (based on Profibus, DeviceNet, CanOpen and CC-link) with Industrial Ethernet protocols such as Profinet, EtherCAT, Ethernet/IP and SERCOS-III.

FEATURES

- Jacketing is in halogen-free flame-retardant thermoplastic polyurethane (PUR) high flex TPE, PVC or FRNC (flame retardant, non-corrosive) materials and TPE high-flex cables
- PVC provides a competitive and economic solution for occasional movement or vibration, but PUR is more suited to more demanding applications in for example, drag chains and harsh environments where operational reliability is crucial
- Category 5e cables can realize transmission rates of 100Mbps to meet network requirements in the field and at supervisory management levels
- The new assemblies are available with several standard cable length options from 0.5m through to 30m
- Enclosure rating of IP67 rating for dust-tight and waterproof applications ensure efficient, high-quality and reliable connectivity and high integrity signal transmission
- 360 degrees shielding
- Depending on the material, the assemblies withstand up to 3 million flexes, machine oils, abrasion and UV
- Our TPE cables can withstand 5M cycles for C-track applications

FEATURES

- Category 5e cables can realize transmission rates of 100Mbps to meet network requirements in the field and at supervisory management levels
- The new assemblies are available with several standard cable length options from 0.5m through to 30m

BENEFITS

- Unit remains protected and fully operational in most industrial applications
- · Secured signal connections and data trasnmission
- Ensure the application of cable assembly in flexible installation environment
- Ensure the application of cable assembly in torsion application environment
- Oil-resistant for in oil industrial applications
- · Application of UV-resistant environment

APPLICATIONS

- Industrial communications
- · Process control systems
- · Industrial machinery
- · Industrial automation
- Machine tools
- Robotics
- Material handling

MATERIALS

- · Contact: Brass, Gold Plating 30um
- · Nut & Shells: Brass, Nickel plating
- · O-ring: Silicon rubber
- Over-molding: PUR/PVC
- · Housing: PA
- PA66 for M12 connector housing
- TPU or PVC material for cable assembly over-molding depending cable jacket type
- · PP for inner over-molding
- · Cable Jacket materials: PUR, PVC, FRNC and TPE

ELECTRICAL

- M12 D code 4 poles: 30V/1.5A
- Voltage proof: 1400V
- Insulation resistance: $100M\Omega$ min
- 30° C max under loaded rating current
- 2pair is for D-Code CAT5E performance, which is based on channel level

MECHANICAL

Waterproof:

- IP67 rating for D code M12 cable side: IP20 for RJ45 male side
- Mating / Un-mating force: 15N/15N max.
- · Sinusoidal vibration meet IEC60512, test 6d
- Mechanical shock meet EIA364-27

Durability:

- 1M for PUR drag chain cable
- 3M for TPE torsion cable
- 5M for TPE C-track

Temperature Ratings:

- Industrial Ethernet Profinet/SERCOS III Type B PVC: Cat5e 22AWG
 - Operating temperature -40°C to +80°C (fixed)
 -20°C to +60°C (flexible)
- Industrial Ethernet Profinet Type C PUR: PUR Cat5e 22AWG
 - Operating temperature -30°C to +70°C (fixed)
 -20°C to +60°C (flexible)
- Industrial Ethernet/IP Hi-Flex Cat5e TPE SF/UTP 24AWG
- Industrial Ethernet/IP Hi-Flex Cat5e TPE U/UTP 24AWG
 - Operating temperature: -20°C to +80°C (fixed)
 -40°C to +80°C (flexible)

SPECIFICATIONS

- UL1863
- IEC 61076-2-101: Detail specification for M12 connectors with screw-locking (but True Position 0.1mm requirement for male side is not required)
- IEC 60512: Electromechanical Components For Electronic Equipment; Basic testing procedure and measuring methods
- IEC-60529: Degree of protection provided by enclosures (IP Code)
- ISO/IEC 11801 category 5e



PART NUMBER LIST

M12 ETHERNET D-CODE 4POS CABLE ASSEMBLIES DOUBLE ENDED TYPE C PUR & TPE

Part Number	Part Description	Application	Code	POS	Туре	Cable Material	Shielded
TAD14545101-001	M12D4-MS-FS-PUR- 22SH-TYPE C-0.5M	Profinet, EtherCAT, Ethernet/IP (up to 100Mbs)	D		M12 MS-FS	CAT5E TYPE C, PUR, 22AWG, GREEN	Yes
TAD14541111-001	M12D4-MS-FS-PVC- 22SH-TYPE B-0.5M				M12 MS-FS	CAT5E TYPE B, PVC, 22AWG, GREEN	
TAD1453A201-001	M12D4-MS-FS- TPE-24SH-0.5M			4	M12 MS-FS	CAT5E TPE, SF/ UTP 24AWG TEAL	
TAD2453A201-001	M12D4-MS-FS-TPE- 24UNSH-0.5M				M12 MS-FS	CAT5E TPE, U/UTP 24AWG, TEAL	No

M12 ETHERNET D-CODE 4POS CABLE ASSEMBLIES DOUBLE ENDED TO RJ45 TYPE C PUR & TPE

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TCD14745101-001	M12D4-MS-RJ45-PUR- 22SH-TYPE C-0.5M	Profinet, EtherCAT, Ethernet/IP (up to 100Mbs)	D		M12 MS - RJ45	CAT5E TYPE C, PUR, 22AWG, GREEN	Yes
TCD14741111-001	M12D4-MS-RJ45-PVC- 22SH-TYPE B-0.5M				M12 MS - RJ45	CAT5E TYPE B, PVC, 22AWG, GREEN	
TCD1473A201-001	M12D4-MS-RJ45- TPE-24SH-0.5M			4	M12 MS - RJ45	CAT5E TPE, SF/ UTP 24AWG TEAL	
TAD2473A201-001	M12D4-MS-RJ45- TPE-24UNSH-0.5M				M12 MS - RJ45	CAT5E TPE, U/UTP 24AWG, TEAL	No

M12 ETHERNET D-CODE 4POS CABLE ASSEMBLIES SINGLE ENDED TPE

(Extended to TPE jacketed cables; for PUR and PVC refer to original M8M12 Cordset catalog)

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TAD2413A201-001	M12D4-MS-TPE USH-0.5M		D	4	Male Straight (MS)	CAT5E TPE SF/UTP 24AWG, TEAL	Yes
TAD2423A201-001	M12D4-MR-TPE USH-0.5M	Profinet, EtherCAT,			Male Right Angle (MR)	3	res
TAD1413A201-001	M12D4-MS-TPE SH-0.5M	Ethernet/IP (up to 100Mbs)			Male Straight (MS)	CAT5E TPE U/UTP 24AWG, TEAL	Na
TAD1423A201-001	M12D4-MR-TPE SH-0.5M				Male Right Angle (MR)	3	No

M12 ETHERNET D-CODE 4POS CABLE ASSEMBLIES DOUBLE ENDED TPE

(Extended to TPE jacketed cables; for PUR and PVC refer to original M8M12 Cordset catalog)

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TAD1473A201-001	M12D4-MS-MS- TPE SH-0.5M		D		MS-MS	CAT5E TPE SF/UTP 24AWG, TEAL	Yes
TAD1483A201-001	M12D4-MS-MR- TPE SH-0.5M	Profinet, EtherCAT,			MS-MR	3	
TAD2473A201-001	M12D4-MS-MS- TPE USH-0.5M	Ethernet/IP (up to 100Mbs)		4	MS-MS	CAT5E TPE U/UTP 24AWG, TEAL	
TAD2483A201-001	M12D4-MS-MR- TPE USH-0.5M				MS-MR	3	No

PRODUCT OFFERINGS - M12 ETHERNET D-CODE 4-POS CABLE ASSEMBLIES SINGLE ENDED TYPE C PUR

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TAD14145101-001	M12D4-MS-PUR TYPE C GREEN-0.5M	Profinet, EtherCAT, Ethernet/IP		4	Male Straight	CAT5E TYPE C, PUR, 22AWG, GREEN	Yes
TAD14245101-001	M12D4-MR-PUR TYPE C GREEN-0.5M	(up to 100Mbs)	D	4	Male R/A		Tes

PRODUCT OFFERINGS - M12 ETHERNET D-CODE 4-POS CABLE ASSEMBLIES DOUBLE ENDED TYPE C PUR

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TAD14745101-001	M12D4-MS-MS-PUR TYPE C GREEN-0.5M	Profinet, EtherCAT , Ethernet/IP		4	MS-MS	CAT5E TYPE C, PUR, 22AWG, GREEN	Ver
TAD14845101-001	M12D4-MS-MR-PUR TYPE C GREEN-0.5M	(up to 100Mbs)	D	4	MS-MR		Yes

PRODUCT OFFERINGS - M12 ETHERNET D-CODE 4-POS CABLE ASSEMBLIES SINGLE ENDED TYPE B FRNC

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TAD14147101-001	M12D4-MS-FRNC TYPE B GREEN-0.5M	Profinet, EtherCAT , Ethernet/IP			Male Straight	CAT5E TYPE B, FRNC, 22AWG, GREEN	
TAD14247101-001	M12D4-MR-FRNC TYPE B GREEN-0.5M	(up to 100Mbs)	D	4	Male R/A		Yes

PRODUCT OFFERINGS - M12 ETHERNET D-CODE 4-POS CABLE ASSEMBLIES DOUBLE ENDED TYPE B FRNC

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TAD14747101-001	M12D4-MS-MS-FRNC TYPE B GREEN-0.5M	Profinet, EtherCAT, Ethernet/IP	D	4	MS-MS	CAT5E TYPE B, FRNC, 22AWG, GREEN	Yes
TAD14847101-001	M12D4-MS-MR-FRNC TYPE B GREEN-0.5M	(up to 100Mbs)	U	4	MS-MR		ies

PRODUCT OFFERINGS - M12 ETHERNET D-CODE 4-POS CABLE ASSEMBLIES SINGLE ENDED TYPE B PVC

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TAD14141111-001	M12D4-MS-PVC TYPE B-0.5M	Profinet, EtherCAT, Ethernet/ID	D	4	Male Straight	CAT5E TYPE B, PVC, 22AWG, GREEN	Yes
TAD14241111-001	M12D4-MR-PVC TYPE B-0.5M	Ethernet/IP (up to 100Mbs)	U	4	Male R/A		163

PRODUCT OFFERINGS - M12 ETHERNET D-CODE 4-POS CABLE ASSEMBLIES DOUBLE ENDED TYPE B PVC

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TAD14741111-001	M12D4-MS-MS-PVC TYPE B-0.5M	Profinet, EtherCAT, Ethernet/IP	_		MS-MS	CATSE TYPE B, PVC, 22AWG, GREEN	Ver
TAD14841111-001	M12D4-MS-MR-PVC TYPE B-0.5M	(up to 100Mbs)	D	4	MS-MR		Yes

PRODUCT OFFERINGS - M12 ETHERNET D-CODE 4-POS CABLE ASSEMBLIES SINGLE ENDED TYPE B PVC RED

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TAD14141311-001	M12D4-MS-PVC TYPE B RED-0.5M	SERCOS-III			Male Straight	CAT5E TYPE B, PVC, 22AWG, RED	
TAD14241311-001	M12D4-MR-PVC TYPE B RED-0.5M	(up to 100Mbs)	D	4	Male R/A		Yes

PRODUCT OFFERINGS - M12 ETHERNET D-CODE 4-POS CABLE ASSEMBLIES DOUBLE ENDED TYPE B PVC RED

Part Number	Part Description	Application	Code	POS	Type	Cable Material	Shielded
TAD14741311-001	M12D4-MS-MS-PVC TYPE B RED-0.5M	SERCOS-III			MS-MS	CAT5E TYPE B, PVC, 22AWG, RED	
TAD14841311-001	M12D4-MS-MR-PVC TYPE B RED-0.5M	(up to 100Mbs)	D	4	MS-MR		Yes

00L	Cable Length
-001	0.5M
-002	1.0M
-020	2.0M
-040	4.0M
-060	6.0M
-080	8.0M
-007	10.0M
-150	15.0M
-200	20.0M
-250	25.0M
-300	30.0M

-XXX	Customized Cable Length
-XXO	XXM
-XX5	XX.5M

Application	Code		Pin Assignment		M12 D Code Male	RJ45 Plug	Shielding
Ethernet	D code		finet/EtherCAT P jacketed cables) 12 D code TO RJ4				Option on metal nut
		Pin1 TD+	Yellow	Pin1	4 3		
		Pin3 TD-	Orange	Pin2			
		Pin2 RD+	White	Pin3			
		Pin4 RD-	Blue	Pin6			
		(For EtherNET/IP TPE jacketed cable)		2 123 6			
		M12 D code TO RJ45			123 6		
		Pin1 TD+	White-Orange	Pin1			
		Pin3 TD-	Orange	Pin2			
		Pin2 RD+	White-Green	Pin3			
		Pin4 RD-	Green	Pin6			

PART NUMBER GUIDE FOR M12 D-CODE CORDSETS

TE Brand	Т
M12 series	А
D code	D

W		Wire Gauge
	3	24 AWG (*for TPE)
	4	22 AWG (*for PUR, PVC)

N	Other
1	Standard screw nut with nickel plated
	Stamping contact 30u" AU plated

S	Application Type
1	Shielding industrial ethernet Cate5e
2	Unshielding industrial ethernet Cate5e *only with TPE

Cable Jacket	Υ
PVC Moderate flexible	1
PUR high flex	5
TPE Extreme high flex	А

plated	1
Stamping contact 30u" AU plated	,
Cable Length	-OOL

В	Poles No.
4	4 Poles
Х	Interface Type
1	Male straight
2	Male angled
5	Male straight to female straight
7	Male straight to male straight

Cable Color	0
Green	1
Teal	2
Red	3
Over-Molding	М
Black TPU Over-molding (*for PUR and TPE)	0
Black PVC Over-molding for PVC	1

-OOL	Cable Length
-001	0.5M
-002	1.0M
-003	1.5M
-020	2.0M
-004	3.0M
-005	5.0M
-006	7.0M
-007	10.0M
-XXX	Customized Cable Length
-XXO	XX.0M
-XX5	XX.5M
-99X	(<1M) 0.XM
-993	0.3M
-155	15.5M

FOR ETHERNET/IP (TPE CABLE)

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Wiring Diagram-M12 Cable Cordset Shielded

Male straight to male angled

From Pin	4 Poles	To Pin
1	White-Orange	1
2	White-Green	2
3	Orange	3
4	Green	4
Shielded	Metal Nut	Shielded

FOR PROFINET/ETHERCAT (PUR, PVC CABLE)

Wiring Diagram-M12 Cable Cordset Shielded

From Pin	4 Poles	To Pin
1	Yellow	1
2	White	2
3	Orange	3
4	Blue	4
Shielded	Metal Nut	Shielded

Wiring Diagram-M12 Cable Cordset Unshielded

From Pin	4 Poles	To Pin
1	White-Orange	1
2	White-Green	2
3	Orange	3
4	Green	4

Application	Code	Pin Assignment	Male	Female	Shielding
Ethernet	D code	(For Profinet/EtherCAT) PIN1 TD+ YELLOW PIN3 TD- ORANGE PIN2 RD+ WHITE PIN4 RD- BLUE (For EtherNET/IP) PIN1 TD+ WHITE-ORANGE PIN3 TD- ORANGE PIN2 RD+ WHITE-GREEN PIN4 RD- GREEN	4 3	3 4	Option on metal nut

PART NUMBER GUIDE FOR M12 D-CODE MALE TO RJ45 CORDSETS

T C D S B X W Y O M N -XXX

Т	TE Brand
С	M12 to RJ45
D	D code
S	Application Type
1	Shielding Industrial Ethernet Cate5e
2	Unshielding Industrial Ethernet Cate5e *only with TPE
В	Poles No.
4	4 Poles

2	Unshielding Industrial Ethernet Cate5e *only with TPE
В	Poles No.
4	4 Poles
X	Interface Type
7	Male straight to RJ45 male straight
W	Wire Gauge
3	24 AWG (*for TPE)
4	22 AWG (*for PUR, PVC)

Υ	Cable Jacket
1	PVC Moderate flexible
5	PUR High flex
А	TPE Extreme high flex
0	Cable Color
1	Green (*PUR and PVC)
2	Teal (*TPE)
М	Over-Molding
M 0	Over-Molding Black TPU Over-molding (*for PUR and TPE)
	Black TPU Over-molding
0	Black TPU Over-molding (*for PUR and TPE)
0	Black TPU Over-molding (*for PUR and TPE)
0 1	Black TPU Over-molding (*for PUR and TPE) Black PVC Over-molding (*for PVC)

-OOL	Cable Length
-001	0.5M
-002	1.0M
-003	1.5M
-020	2.0M
-004	3.0M
-005	5.0M
-006	7.0M
-007	10.0M
-XXX	Customized Cable Length
-XXO	XX.0M
-XX5	XX.5M
-99X	(<1M) 0.XM
-993	0.3M
-155	15.5M

FOR ETHERNET/IP (TPE CABLE)

Wiring Diagram-M12 Cable Cordset Shielded

4 Poles	To RJ45 Pin	
White-Orange	1	
White-Green	2	
Orange	3	
Green	4	
Metal Nut	Shielded	
	White-Orange White-Green Orange Green	

FOR PROFINET/ETHERCAT (PUR, PVC CABLE)

AU plated

Wiring Diagram-M12 Cable Cordset Shielded

From D Code Pin	4 Poles	To RJ45 Pin
1	Yellow	1
2	White	2
3	Orange	3
4	Blue	4
Shielded	Metal Nut	Shielded

Industrial Networks and Application Use: M12 Key Interfaces

Application	Code	Pin Assignment	Male	Female	Shielding
Ethernet	D code	(For Profinet/EtherCAT): PIN 1 TD+ YELLOW PIN 3 TD- ORANGE PIN 2 RD+ WHITE PIN 4 RD- BLUE (For Ethernet/IP): PIN 1 TD+ WHITE-ORANGE PIN 3 TD- ORANGE PIN 2 RD+ WHITE-GREEN PIN 4 RD- GREEN	4 3	3 4	Optional on metal nut
CC-link	A code	PIN 1 DRAIN BARE PIN 2 DS WHITE PIN 3 DG YELLOW PIN 4 DA BLUE	4 3	3 4 0 0 0 0 1	On metal nut
Profibus	B code	PIN 2 DATA CORE A GREEN PIN 4 DATA CORE B RED	4 3	3 4 0 5 0 0 0 2 1	On metal nut
Devicenet/ Canopen	A code	PIN 4 CAN_H WHITE PIN 5 CAN_L BLUE PIN 1 DRAIN BARE PIN 3 V- BLACK PIN 2 V+ RED	4 3	3 4 0 5 0 0 0 2 1	On metal nut

M12 X-CODE CORDSETS AND M12 X-CODE TO RJ45 CORDSETS

X-code connection technology is experiencing a significant increase in interest as more companies look for higher network speeds and more reliable, high-quality data transmissions.

The 8-pin M12 X-code design is the most recent evolution in the Industrial environment which can handle 10 Gbit/s Ethernet transmission speeds.

Category 6A (Cat6A) cables usually consist of standardized twisted pair cables for Ethernet and other network layers. These can handle data rates up to 10 Gbit/s. In order to withstand these high speeds and data output, Cat6A cables have significant shielding and cable twist requirements.



The M12 X-code connector is specially developed for these requirements, whereby the channel pairs are separated and the degree of shielding in the connector itself has been increased. The new M12 X-coded cordsets, which are UL certified and have an IP67 rating for dust-tight and waterproof applications ensure efficient, high-quality and reliable connectivity and high integrity signal transmission. TE M12 overmolded X-code cordsets series contain male straight and right angle versions that transmit data rates up to 10 Gbit/s according to IEC 61076-2-109. Our Cat6A cable jackets vary between PVC, PUR and TPE which offer a unique solution toward satisfying the stringent needs of motion systems supporting both flexing and stationary industrial high speed Ethernet requirements.

TE's portfolio is further complemented with overmolded M12 X-code to RJ45 cable assemblies which are key components to an overal Industrial Ethernet application and designed for connection within control cabinets, machinery and outdoor applications. This further simplifies the concurrent use of both connector types (M12 & RJ45) within a single system.

FEATURES

- Enclosure rating of IP67
- · 360 degrees shielding
- PUR cables suitable for drag chain application (up to 3 million cycles)
- TPE cables suitable for drag chain (up to 1 million cycles) and torsion applications (up to 3 million cycles)
- Oil resistant for PUR/TPE cable
- UV resistant for PUR/TPE/PVC cable
- Flame retardant:
 - CM for PVC/TPE cable
 - FT2 for PUR cable

BENEFITS

- Unit remains protected & fully operational in most industrial applications
- Secured signal connections and data trasnmission
- Ensure the application of cable assembly in flexible installation environment
- Ensure the application of cable assembly in Torsion application environment
- Oil-resistant for in oil industrial applications
- Application of UV-resistant environment

APPLICATIONS

- · Vision systems and cameras
- · Industrial communications
- · Industrial machinery
- Robotics
- · Material handling
- Test equipment
- I/O connectivity
- · Data aqcuisition

MECHANICAL

- Durability: 100 cycles
- Degree of protection:
 - IP67 for M12 X-code (mated)
 - IP20 for RJ45 side
- Mating and un-mating force:
 - Insertion: 30N max.
 - Withdraw: 30N max.
- Sinusoidal vibration per IEC60512, test 6d
- Mechanical shock per IEC60512, test 6c

ELECTRICAL

- Rated voltage: 30V
- Rated current: 0.5A
- Initial value contact resistance: $15m\Omega$ Max.
- Rated impulse voltage: 0.5KV"

MATERIALS

- Nylon for HSG
- TPU for TPE/PUR cable overmolding
- PVC for PVC cable overmolding
- Zinc alloy for metal nuts and shielded shell, Nickel plated for metal nut,
 Tin plated for shielded shell
- Copper alloy for terminals, 30um gold plated
- Temperature rating:
 - M12 X-code connector: -25...~85°C
 - RJ45 connector: -25...~60°C
 - Cable: -25...~80°C (MOVED) -40...~80°C (FIXED)

STANDARDS

- UL1863
- UL444 for PVC/TPE cable
- UL758 for PUR cable

SPECIFICATIONS

- IEC 61076-2-109 for M12 X-code
- IEC60603-7 for RJ45

M12 X-CODE SINGLE AND DOUBLE END CORDSETS - PRODUCT CODE

T A X S B X W Y O M N -XXX

Т	TE Brand
А	M12 series
Χ	X-code
S	Application Type
3	Shielding Industrial Ethernet Cate 6A
В	Poles No.
8	8 Poles
Χ	Interface Type
1	Male straight
2	Male angled
	Male straight to male straight
7	male straight to male straight
7	Male straight to male angled

Υ	Cable Jacket			
1	PVC Moderate flexible			
5	PUR High flex			
Α	TPE Extreme high flex			
0	Cable Color			
1	Green (for PVC & PUR)			
2	Teal (only for TPE)			
M	Over-Molding			
0	Black TPU Over-molding for TPE/PUR cable			
1	Black PVC Over-molding for			
	PVC cable			
	PVC cable			
N	Other			

plated

2

-OOL	Cable Length
-001	0.5M
-002	1.0M
-003	1.5M
-020	2.0M
-004	3.0M
-005	5.0M
-006	7.0M
-007	10.0M
-150	15.0M
-XXX	Customized Cable Length
-XXO	XX.0M
-XX5	XX.5M
-99X	(<1M) 0.XM
-993	0.3M
-155	15.5M

M12 X-CODE CORDSET - WIRING SCHEMA

Wire Gauge

26 AWG

Wiring Diagram - M12 PUR/TPE Cordset Shielded, Double Ended

From Pin	8 Poles	To Pin
1	White/Orange	1
2	Orange	2
3	White/Green	3
4	Green	4
5	White/Brown	5
6	Brown	6
7	White/Blue	7
8	Blue	8
Shielded	Metal nut	Shielded

Wiring Diagram - M12 PVC Cordset Shielded, Double Ended

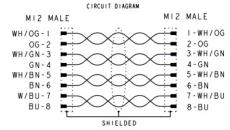
Maching terinal 30u" AU plated

From Pin	8 Poles	To Pin
1	White	1
2	Orange	2
3	White	3
4	Green	4
5	White	5
6	Brown	6
7	White	7
8	Blue	8
Shielded	Metal Nut	Shielded



W

2





M12 X-CODE TO RJ45 CORDSETS - PRODUCT CODE

T C X S B X W Y O M N -XXX

Т	TE Brand
С	M12 TO RJ45
Χ	X-code
S	Application Type
3	Shielding industrial ethernet Cate 6A
В	Poles No.
8	8 Poles
Χ	Interface Type
7	Male straight to RJ45 Male straight
8	Male angled TO RJ45 Male straight
W	Wire Gauge
V V	Whe daage
2	26 AWG

Υ	Cable Jacket
1	PVC Moderate flexible
5	PUR High flex
Α	TPE Extreme high flex
0	Cable Color
1	Green (for PVC & PUR)
2	Teal (only for TPE)
М	Over-Molding
M	Over-Molding Black TPU Over-molding for TPE/PUR cable
	Black TPU Over-molding for
0	Black TPU Over-molding for TPE/PUR cable Black PVC Over-molding for PVC cable
0	Black TPU Over-molding for TPE/PUR cable Black PVC Over-molding for

-OOL	Cable Length
-001	0.5M
-002	1.0M
-003	1.5M
-020	2.0M
-004	3.0M
-005	5.0M
-006	7.0M
-007	10.0M
-150	15.0M
-xxx	Customized Cable Length
-XXO	XX.0M
-XX5	XX.5M
-99X	(<1M) 0.XM
-993	0.3M
-155	15.5M
	

M12 X-CODE MALE TO RJ45 MALE CORDSETS - WIRING SCHEMA FOR TPE & PUR

Wiring Diagram - M12 PUR/TPE Cordset Shielded, Double Ended

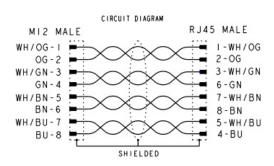
From X-code Pin	8 Poles	To RJ45 Pin
1	White/Orange	1
2	Orange	2
3	White/Green	3
4	Green	4
5	White/Brown	5
6	Brown	6
7	White/Blue	7
8	Blue	8
Shielded	Metal nut	Shielded

M12 X-CODE MALE TO RJ45 MALE CORDSET - WIRING SCHEMA FOR PVC

Wiring Diagram - M12 PVC Cordset Shielded, Double Ended

From X-code Pin	8 Poles	To RJ45 Pin
1	White	1
2	Orange	2
3	White	3
4	Green	6
5	White	7
6	Brown	8
7	White	5
8	Blue	4
Shielded	Metal Nut	Shielded







M12 X-CODE 8POS SINGLE & DOUBLE ENDED TPE CABLE ASSEMBLIES

Part Number	Part Description	Application	Code	POS	Туре	Cable Material	Shielded	
TAX3812A202-002	M12X-MS-8CON- TPE-1.0SH				Male Straight (MS)			
TAX3822A202-002	M12X-MR-8CON- TPE-1.0SH				Male Right Angle (MR)			
TAX3872A202-002	M12X-8MS-1.0SH- M12X-8MS-TPE				Ms - Ms	TPE		
TAX38B2A202-002	M12X-8MR-1.0SH- M12X-8MR-TPE	Ethernet up to 10 Gb/s data transmission	up to 10 Gb/s data	X-code	X-code 8	MR - MR		Yes
TAX3882A202-002	M12X-8MS-1.0SH- M12X-8MR-TPE				MS - MR	(f)		
TCX3882A202-002	M12X-8MR-1.0SH- RJ45-8MS-TPE				MR - Straight RJ45			
TCX3872A202-002	M12X-8MS-1.0SH- RJ45-8MS-TPE				MS - Straight RJ45			

M12 X-CODE 8POS SINGLE & DOUBLE ENDED PUR & PVC CABLE ASSEMBLIES

Part Number	Part Description	Application	Code	POS	Туре	Cable Material	Shielded
TAX38125102-002	M12X-MS-8CON- PUR-1.0SH				Male Straight (MS)	PUR	
TAX38121112-002	M12X-MS-8CON- PVC-1.0SH				6	PVC	
TAX38225102-002	M12X-MR-8CON- PUR-1.0SH				Male Right Angle (MR)	PUR	
TAX38221112-002	M12X-MR-8CON- PVC-1.0SH					PVC	
TAX38725102-002	M12X-8MS-1.0SH- M12X-8MS-PUR				MS - MS	PUR	
TAX38721112-002	M12X-8MS-1.0SH- M12X-8MS-PVC		p to 10 b/s data X-code 8		0	PVC	
TAX38825102-002	M12X-8MS-1.0SH- M12X-8MR-PUR	Ethernet up to 10			MS - MS	PUR	Yes
TAX38821112-002	M12X-8MS-1.0SH- M12X-8MR-PVC	Gb/s data transmission		0	PVC	res	
TCX38825102-002	M12X-8MR-1.0SH- RJ45-8MS-PUR				MR - MS	PUR	
TCX38821112-002	M12X-8MR-1.0SH- RJ45-8MS-PVC					PVC	
TCX38725102-002	M12X-8MS-1.0SH- RJ45-8MS-PUR				MS - Straight RJ45	PUR	
TCX38721112-002	M12X-8MS-1.0SH- RJ45-8MS-PVC				6	PVC	
TAX38B25102-002	M12X-8MR-1.0SH- M12X-8MR-PUR				MR - MR	PUR	
TAX38B21112-002	M12X-8MR-1.0SH- M12X-8MR-PVC				0	PUR	

CABLE MATERIAL



M12 L-CODE CABLE ASSEMBLY

M12 Power L-code connectors are an extension of the current M12 IEC standard and have been selected by PROFIBUS and PROFINET International as the standard for 24-volt power supply systems used in PROFINET devices. An extension of TE's M12 product portfolio, M12 L-code cable assemblies handle up to 16A per pin – the highest in TE's M12 family – delivering four times the power of standard M12 connectors while providing reliable and efficient power supply.

M12 Power L-coded connectors take up to 40% less space and almost 80% more power than 7/8" connectors traditionally used for high-power connections. The M12 power cable assemblies are available in both male and female connectors and suitable for every purpose with its conductor size from 1.5 mm² up to 2.5 mm² allowing for a more compact build of a high-power solutions for automation devices.



TE's new M12 Power L-code connectors are IP67 rated, protected from dust and resist temporary submersion in water at depths of up to 1 meter for 30 minutes. The L-coding version is designed for DC power supplies with 63 V DC / 16 A, where a high current and low voltage is required making ideal for Fieldbus Ethernet I/O boxes, Ethernet systems, Network Devices, Motors and Drives and Valve applications. The power cable assemblies are available through TE's global distribution network, which provides customers with short lead-times and fast responses for technical support.

KEY FEATURES

- IEnclosure rating of IP67
- 360 degrees shielding for reliable EMC protection and robustness
- Preventing mismatching connectors with different voltages
- PROFINET-conforming color scheme with L-coding versions
- Different cable materials PUR or PVC in shielded and non-shielded versions
- Custom specifications and cable lengths are available
- Depending on the material, the assemblies withstand up to 4 million flexes, machine oils, abrasion and UV radiation
- The new assemblies are available with several standard cable length options from 0.5m through to 20m

BENEFITS

- Unit remains protected and fully operational in most industrial applications
- Secured signal connections and data transmission
- Protection against mismatching with coded pin connector patterns
- PNO approved for immediate implementation into PROFINET standard and embracing miniaturization of distribution boxes
- One stop shop solution with broad product portfolio with cable jacket colors and material options
- Highly configurable with numerous connector variations, standard cable lengths
 up to 20mtrs and wire sizes

APPLICATIONS

- · Industrial communications
- · Industrial machinery
- Robotics
- · Material handling
- Industrial control and factory automation
- · Test equipment
- I/O connectivity
- · Sensor and actuators

ELECTRICAL

- 63V DC/AC
- 12A (16AWG)
- 16A (14AWG)
- Initial value contact resistance: $5m\Omega$ Max.
- Rated impulse voltage 1.5KV

MECHANICAL

- · Durability: 100 cycles
- · Degree of protection: IP67
- · Mating and un-mating force:
 - Insertion: 30N max. for 4P,45N Max. for 5P
 - Withdraw: 30N max. for 4P,45N Max. for 5P
- · Sinusoidal vibration per IEC60512, Test 6d
- Mechanical shock per EIA364-27

STANDARDS

- UL 2237
- AWM style cables
- Electrical Standard 61076-2-111

MATERIALS

- Nylon for HSG
- · TPU for overmolding
- Copper alloy for metal nuts, Nickel plated Cable jacket materials: PVC and PUR
- · Cable information:
 - · Temperature rating:
 - Power cable AWM2464 4C AWG14 (2.5mm²) PVC black
 - Operating temperature -40°C to +80°C (fixed) -20°C to +80°C (flexible)
 - Power cable AWM20233 4C AWG16 (1.5mm²)
 PUR black drag chain
 - Operating temperature -50°C to +80°C (fixed) -30°C to +80°C (flexible)
 - Power cable AWM2464 5C AWG14 (2.5mm²) PVC Gray
 - Operating temperature -40°C to +80°C (fixed) -20°C to +80°C (flexible)
 - Power cable AWM20233 5C AWG14 (2.5mm²)
 PUR Gray drag chain
 Operating temperature -40°C to +80°C (fixed)
 -20°C to +80°C (flexible)
 - Power cable AWM20233 5C AWG16 (1.5mm²)
 PUR Gray drag chain
 Operating temperature -50°C to +80°C (fixed)
 -30°C to +80°C (flexible)
 - Power cable AWM20233 5C AWG14 (2.5mm²)
 PUR Gray Shielded Drag chain
 Operating temperature -50°C to +80°C (fixed)
 -30°C to +80°C (flexible)
 - PUR cables suitable for drag chain application (up to 4 million cycles)
 - · Oil resistant
 - Flame retardant: VW-1/FT1
 - UV resistant
 - · High Conductivity Copper alloy for terminals, Gold plated

Note: Color coding has been introduced by the "PROFIBUS and PROFINET International" (PI) user organization for better identification and to avoid confusion during installation:

- 4-pole versions have a black contact carrier and jacket
- 5-pole versions have a grey contact carrier and jacket

The contact carriers and the cables are color-coded so that end users don't confuse the 4-pin and 5-pin variants. The 4-pin L-coded M12 variants have a black contact carrier and cable. The 5-pin variants with an FE contact have a gray contact carrier and cable.

T 4 1 S B X W Y L M N -XXX

Т	TE Brand
4	Circular Connector
1	M12
S	Shielding
5	Unshielded
6	Shielded
В	Forms
1	Single Sided
2	Double Sided
X	Interface Type
1	Male Straight
2	Male Angled
3	Female Straight
4	Female Angled
5	Male Straight to Female Straight
6	Male Straight to Female Angled
Α	Male Angled to Female Straight

W	Wire Gauge
9	14 AWG PVC
В	14 AWG PUR
С	16 AWG PUR
Υ	Cable Grip
9	Black TPU
L	Code Type
L	L Code
M	Jacket Color
1	Black
2	Grey

	Didek
2	Grey
N	Pole Numbers
IN	1 010 11411110010
4	4 Poles

-00L	Cable Length
-001	0.5M
-002	1.0M
-003	1.5M
-020	2.0M
-004	3.0M
-005	5.0M
-006	7.0M
-007	10.0M
-200	20.0M
-XXX	Customized Cable Length
-XXO	XX.0M
-XX5	XX.5M
-99X	(<1M)0.XM

Following PI Guidelines, the available configurations are as below table:

Wire Gauge	Positions	Amp/V	Cable Materials	Contact Carrier
AWG14 (2.5mm²)	4	16A/63V	PVC black	Black
AWG16 (1.5mm²)	4	12A/63V	PUR black drag	Black
AWG14 (2.5mm²)	5 (4+FE)	16A/63V	PVC gray	Gray
AWG14 (2.5mm²)	5 (4+FE)	16A/63V	PUR gray drag	Gray
AWG16 (1.5mm ²)	5 (4+FE)	12A/63V	PUR gray drag	Gray
AWG14 (2.5mm²)	5 (4+FE)	16A/63V	PUR gray Shield drag	Gray

Note: Color coding has been introduced by the "PROFIBUS and PROFINET International" (PI) user organization for better identification and to avoid confusion during installation:

- 4-pole versions have a black contact carrier and jacket
- 5-pole versions have a grey contact carrier and jacket

The contact carriers and the cables are color-coded so that end users don't confuse the 4-pin and 5-pin variants. The 4-pin L-coded M12 variants have a black contact carrier and cable. The 5-pin variants with an FE contact have a gray contact carrier and cable.

WIRING SCHEMA UNSHIELDED 4P

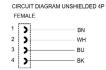
Wiring Diagram: M12 L-code Cable Single Ended

From Pin	4 Poles	To Pin
1	Brown	-
2	White	-
3	Blue	-
4	Black	-
Shielded	Metal Nut	-





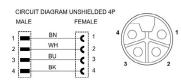




Wiring Diagram: M12 L-code Cable Double Ended

4 Poles	To Pin
Brown	1
White	2
Blue	3
Black	4
	Brown White Blue



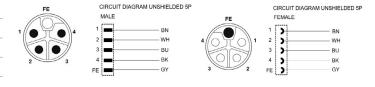


Application	Code	Pin Assignment	Male	Female	Shielding
Power	L-code	PIN1 Brown PIN2 White PIN3 Blue PIN4 Black	1 0 4	4 1	Option on metal nut

WIRING SCHEMA UNSHIELDED 5P

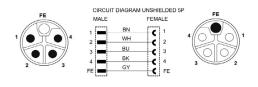
Wiring Diagram: M12 L-code Cable Single Ended

From Pin	5 Poles	To Pin
1	Brown	-
2	White	-
3	Blue	-
4	Black	-
FE	Gray	-



Wiring Diagram: M12 L-code Cable Double Ended

From Pin	5 Poles	To Pin
1	Brown	1
2	White	2
3	Blue	3
4	Black	4
FE	Gray	FE

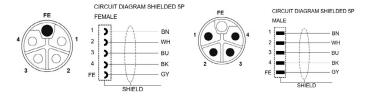


Application	Code	Pin Assignment	Male	Female	Shielding
Power	L-code	PIN1 Brown PIN2 White PIN3 Blue PIN4 Black FE Gray	1 PE	FE 1	N/A

WIRING SCHEMA SHIELDED 5P

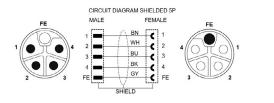
Wiring Diagram: M12 L-code Cable Single Ended

Side 1	5 Poles	Side 2
1	Brown	-
2	White	-
3	Blue	-
4	Black	-
FE	Gray	-
Shielded	Metal Nut	-



Wiring Diagram: M12 L-code Cable Double Ended

Side 1	5 Poles	Side 2
1	Brown	1
2	White	2
3	Blue	3
4	Black	4
FE	Gray	FE
Shielded	Metal Nut	Shielded



Application	Code	Pin Assignment	Male	Female	Shielding
Power	L code	PIN1 Brown PIN2 White PIN3 Blue PIN4 Black FE Gray	FE 3	FE 1	On metal nut

Part Number List

Part Number	Part Description	Code	POS	Туре	Cable Material
T4151199L14-001	M12L-4MS-0.5-PVC 14AWG BK			Male Straight	
T4151299L14-001	M12L-4MR-0.5-PVC 14AWG BK			Male Right Angle	
T4151399L14-001	M12L-4FS-0.5-PVC 14AWG BK			Female Straight	PVC 14 AWG Black
T4151499L14-001	M12L-4FR-0.5-PVC 14AWG BK	L	4	Female Right Angle	
T4152599L14-001	M12L-4MS-0.5-4FS- PVC 14AWG BK			Male Straight to Female Straight	
T4152699L14-001	M12L-4MS-0.5-4FR- PVC 14AWG BK			Male Straight to Female Right Angle	
T4152A99L14-001	M12L-4MR-0.5-4FS- PVC 14AWG BK			Male Right Angle to Female Straight	

Part Number	Part Description	Code	POS	Туре	Cable Material
T41511C9L14-001	RPC-M12L-4MS-0.5- PUR 16AWG BK			Male Straight	
T41513C9L14-001	RPC-M12L-4FS-0.5- PUR 16AWG BK			Female Straight	PUR 16 AWG Black
T41514C9L14-001	RPC-M12L-4FR-0.5- PUR 16AWG BK			Female Right Angle	TOK IS AWO BIRCK
T41525C9L14-001	RPC-M12L-4MS-0.5- 4FS-PUR 16AWG BK		Male Straight to Female Straight		
T41526C9L14-001	RPC-M12L-4MS-0.5- 4FR-PUR 16AWG BK			Male Straight to Female Right Angle	8
T4152AC9L14-001	RPC-M12L-4MR-0.5- 4FS-PUR 16AWG BK			Male Right Angle to Female Straight	

Note: Cable lengths are available up to 20mtrs. For full scope of lengths please visit PN guide on page 3

Part Number List

Part Number	Part Description	Code	POS	Туре	Cable Material
T4151199L25-001	RPC-M12L-5MS-0.5- PVC 14AWG GY			Male Straight	
T4151399L25-001	RPC-M12L-5FS-0.5- PVC 14AWG GY			Female Straight	PVC 14 AWG Gray
T4151499L25-001	RPC-M12L-5FR-0.5- PVC 14AWG GY		E(41EE)	Female Right Angle	. ve i / iii e e i e j
T4152599L25-001	RPC-M12L-5MS-0.5- 5FS-PVC 14AWG GY		5(4+FE)	Male Straight to Female Straight	
T4152699L25-001	RPC-M12L-5MS-0.5- 5FR-PVC 14AWG GY			Male Straight to Female Right Angle	00
T4152A99L25-001	RPC-M12L-5MR-0.5- 5FS-PVC 14AWG GY			Male Right Angle to Female Straight	

Part Number	Part Description	Code	POS	Type	Cable Material
T41511B9L25-001	RPC-M12L-5MS-0.5- PUR 14AWG GY			Male Straight	
T41512B9L25-001	RPC-M12L-5MR-0.5- PUR 14AWG GY			Male Right Angle	
T41513B9L25-001	RPC-M12L-5FS-0.5- PUR 14AWG GY	L		Female Straight	PUR 14 AWG Gray
T41514B9L25-001	RPC-M12L-5FR-0.5- PUR 14AWG GY		5(4+FE)	Female Right Angle	
T41525B9L25-001	RPC-M12L-5MS-0.5- 5FS-PUR 14AWG GY			Male Straight to Female Straight	
T41526B9L25-001	RPC-M12L-5MS-0.5- 5FR-PUR 14AWG GY			Male Straight to Female Right Angle	
T4152AB9L25-001	RPC-M12L-5MR-0.5- 5FS-PUR 14AWG GY			Male Right Angle to Female Straight	

Part Number List

Part Number	Part Description	Code	POS	Туре	Cable Material		
T41511C9L25-001	RPC-M12L-5MS-0.5- PUR 16AWG GY			Male Straight			
T41512C9L25-001	RPC-M12L-5MR-0.5- PUR 16AWG GY			Male Right Angle			
T41513C9L25-001	RPC-M12L-5FS-0.5- PUR 16AWG GY					Female Straight	PUR 16 AWG Gray
T41514C9L25-001	RPC-M12L-5FR-0.5- PUR 16AWG GY	L	5(4+FE)	Female Right Angle			
T41525C9L25-001	RPC-M12L-5MS-0.5- 5FS-PUR 16AWG GY			Male Straight to Female Straight			
T41526C9L25-001	RPC-M12L-5MS-0.5- 5FR-PUR 16AWG GY			Male Straight to Female Right Angle			
T4152AC9L25-001	RPC-M12L-5MR-0.5- 5FS-PUR 16AWG GY			Male Right Angle to Female Straight			

Part Number	Part Description	Code	POS	Type	Cable Material		
T41611B9L25-001	RPC-M12L-5MS-0.5- SH PUR 14AWG GY			Male Straight			
T41612B9L25-001	RPC-M12L-5MR-0.5- SH PUR 14AWG GY			Male Right Angle			
T41613B9L25-001	RPC-M12L-5FS-0.5- SH PUR 14AWG GY	L	L 5	L 5		Female Straight	PUR 14 AWG Shielded Gray
T41614B9L25-001	RPC-M12L-5FR-0.5- SH PUR 14AWG GY				L	L	5(4+FE)
T41625B9L25-001	RPC-M12L-5MS-0.5-5FS- SH PUR 14AWG GY			Male Straight to Female Straight			
T41626B9L25-001	RPC-M12L-5MS-0.5-5FR- SH PUR 14AWG GY			Male Straight to Female Right Angle			
T4162AB9L25-001	RPC-M12L-5MR-0.5-5FS- SH PUR 14AWG GY			Male Right Angle to Female Straight			

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