



M12 CABLE ASSEMBLIES

M12 Cable Assemblies

TE Connectivity's M12 cable assemblies fit heavy industrial applications. The cables are pre-assembled so customers can reduce installation time. With its ruggedized design and contacts, the cable can withstand severe shocks and vibrations according to EN 61373 Cat1 ClassB. They deliver the best data speed possible up to 10 Gb/s and feature compact straight and right angle connectors allowing the cable to be used in confined areas.

The unique crimped cable strain relief eliminates conductor breakage and ultimately system failure. At the same time, the crimping system creates a tamper proof installation, eliminating accidental opening of the connector.

With its fire and smoke characteristics conforming to EN45545 HL3 this cable assembly can be used in public transportation applications as well as other industrial areas where fire and smoke compliancy is required.

BENEFIT STATEMENTS






- Decrease installation time with pre-assembled cable assemblies
- Fire and smoke compliant according to EN45545 HL3
- With 42.5mm length, the right angle connector can be used in limited space areas
- Available with CAT5e or CAT7 Cable with data speed up to 10Gb/s allowing for higher network speed and capacity

FEATURES

- Pre-assembled cable assembly
- Crimped cable strain relief
- Available with CAT5e or CAT7 cable in D4-Male, A8-Male and X8-Male coding
- Shock and vibration compliant according to EN61373 Cat1 ClassB
- Available in lengths from 1m to 20m with 0.5m increments. Other lengths available upon request.



M12 Cable Assemblies

M12 RAIL CONNECTORS SERIES

Left connector	D4-M Straight	D4-M Straight	A8-M Straight	A8-M Straight	X8-M straight
Cable	TE CAT5e cable PN2320808-1	TE CAT5e cable PN2320808-1	TE CAT7 Cable PN2297799-1	TE CAT7 Cable PN2297799-1	TE CAT7 Cable PN2297799-1
Max. Data Speed	100Mb/s	100Mb/s	1Gb/s	1Gb/s	10Gb/s
Right connector	D4-M Straight	D4-M Right Angle	A8-M Straight TE	A8-M Right Angle	X8-M straight
Image					
1.0m	2322330-1	2322422-1	2322421-1	2322423-1	1-2317142-1
1.5m	2322330-2	2322422-2	2322421-2	2322423-2	1-2317142-2
2.0m	2322330-3	2322422-3	2322421-3	2322423-3	1-2317142-3
2.5m	2322330-4	2322422-4	2322421-4	2322423-4	1-2317142-4
3.0m	2322330-5	2322422-5	2322421-5	2322423-5	1-2317142-5
3.5m	2322330-6	2322422-6	2322421-6	2322423-6	1-2317142-6
4.0m	2322330-7	2322422-7	2322421-7	2322423-7	1-2317142-7
4.5m	2322330-8	2322422-8	2322421-8	2322423-8	1-2317142-8
5.0m	2322330-9	2322422-9	2322421-9	2322423-9	1-2317142-9
5.5m	1-2322330-0	1-2322422-0	1-2322421-0	1-2322423-0	2-2317142-0
6.0m	1-2322330-1	1-2322422-1	1-2322421-1	1-2322423-1	2-2317142-1
6.5m	1-2322330-2	1-2322422-2	1-2322421-2	1-2322423-2	2-2317142-2
7.0m	1-2322330-3	1-2322422-3	1-2322421-3	1-2322423-3	2-2317142-3
7.5m	1-2322330-4	1-2322422-4	1-2322421-4	1-2322423-4	2-2317142-4
8.0m	1-2322330-5	1-2322422-5	1-2322421-5	1-2322423-5	2-2317142-5
8.5m	1-2322330-6	1-2322422-6	1-2322421-6	1-2322423-6	2-2317142-6
9.0m	1-2322330-7	1-2322422-7	1-2322421-7	1-2322423-7	2-2317142-7
9.5m	1-2322330-8	1-2322422-8	1-2322421-8	1-2322423-8	2-2317142-8
10.0m	1-2322330-9	1-2322422-9	1-2322421-9	1-2322423-9	2-2317142-9
10.5m	2-2322330-0	2-2322422-0	2-2322421-0	2-2322423-0	3-2317142-0
11.0m	2-2322330-1	2-2322422-1	2-2322421-1	2-2322423-1	3-2317142-1
11.5m	2-2322330-2	2-2322422-2	2-2322421-2	2-2322423-2	3-2317142-2
12.0m	2-2322330-3	2-2322422-3	2-2322421-3	2-2322423-3	3-2317142-3
12.5m	2-2322330-4	2-2322422-4	2-2322421-4	2-2322423-4	3-2317142-4
13.0m	2-2322330-5	2-2322422-5	2-2322421-5	2-2322423-5	3-2317142-5
13.5m	2-2322330-6	2-2322422-6	2-2322421-6	2-2322423-6	3-2317142-6
14.0m	2-2322330-7	2-2322422-7	2-2322421-7	2-2322423-7	3-2317142-7
14.5m	2-2322330-8	2-2322422-8	2-2322421-8	2-2322423-8	3-2317142-8
15.0m	2-2322330-9	2-2322422-9	2-2322421-9	2-2322423-9	3-2317142-9
15.5m	3-2322330-0	3-2322422-0	3-2322421-0	3-2322423-0	4-2317142-0
16.0m	3-2322330-1	3-2322422-1	3-2322421-1	3-2322423-1	4-2317142-1
16.5m	3-2322330-2	3-2322422-2	3-2322421-2	3-2322423-2	4-2317142-2
17.0m	3-2322330-3	3-2322422-3	3-2322421-3	3-2322423-3	4-2317142-3
17.5m	3-2322330-4	3-2322422-4	3-2322421-4	3-2322423-4	4-2317142-4
18.0m	3-2322330-5	3-2322422-5	3-2322421-5	3-2322423-5	4-2317142-5
18.5m	3-2322330-6	3-2322422-6	3-2322421-6	3-2322423-6	4-2317142-6
19.0m	3-2322330-7	3-2322422-7	3-2322421-7	3-2322423-7	4-2317142-7
19.5m	3-2322330-8	3-2322422-8	3-2322421-8	3-2322423-8	4-2317142-8
20.0m	3-2322330-9	3-2322422-9	3-2322421-9	3-2322423-9	4-2317142-9

M12 PCB/Panel Connectors 8/12Pin

CABLE ASSEMBLY SPECIFICATIONS

			
	CAT5e with D4-Male	CAT7 with A8-Male	CAT7 with X8-Male
No of pairs	2 (Quad core)	4 (individually shielded)	
Cross section	22 AWG	24 AWG	
Connector Gender	Male (pin)		
Coding	D-coding	A-coding	X-coding
Temperature Range	-40°C to 85°C (without cable boot), -40°C to 70°C (with cable boot)		
Current rating	4A	2A	0.5A
Operational voltage	50V	30V	48V
Max Data transmission rate	100Mbit/s	1Gbit/s	10Gbit/s
IP rating	IP67		
Mating cycles in Durability	>250 mating cycles		
Standards	EN61373 Cat1 Class B, NFF-16-101 I2/F2, EN45545-2 HL3 R22/R23		

PIN ASSIGNMENTS

From	Cable type			To
Pin	D4-D4	A8-A8	X8-X8	Pin
1	Yellow	White Orange	White Orange	1
2	White	Orange	Orange	2
3	Orange	White Green	White Green	3
4	Blue	Blue	Green	4
5	-	Green	White Brown	5
6	-	White Blue	Brown	6
7	-	White Brown	White Blue	7
8	-	Brown	Blue	8

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