



# M12

## RAILWAY CONNECTORS

M12 Cable Connectors for field assembly. 360° EMI/RFI shielding, torsion and vibration proof cable strain relief with our crimp flange technology and machined crimp contacts. The M12 receptacle connectors with the fully shielded housing are pre-assembled. For the secure automatic wave soldering process of the conductors are versions with pre-assembled Wireclip available.

### Technical Features

- Codings: A-Coding with 5 poles or 8 pole  
D-Coding 4 poles
- Custom cable assemblies available
- Compact dimensions
- Assembly with locking against rotation due to flange contour for housing



# M12 - THE CODINGS

A-Coding:  
A5

Actuator-sensor plug  
for DeviceNet, IO  
link and Profibus



A8



D-Coding:  
D4

Industrial Ethernet,  
Ethernet/ IP for Railway  
Applications



**Temperature Range**

-40°C to 85°C

**Current Rating:**

A-5 / D-4 : 4 A

A-8 : 2 A

**Operational Voltage:**

A-5 / B-5 / D-4 : 50 V DC

A-8 : 30 V DC

**Contact Resistance:**

≤ 5 mΩ

**Insulation Resistance:**

≥ 100 MΩ

**Data Transmission**

**Characteristics:**

IEC 11801:2002

**Data Transmission Rate:**

Up to 10GBit/s

**IP Rating:**

IP67

**Mating Cycles:**

≥ 100 mating cycles

**Standards:**

EN 61373 Class 1

Fire Performance NFF 16101,

16102, EN45545-2



## Materials

Housing	Cu alloy Ni plated
Insulator + contact holder	Thermoplastic
Contact Material	Cu alloy
Contact Plating	Au
Sealings	Elastomer

\*We have solutions for many Cat 5 - 7 cables from other manufacturers. Contact a TE representative for more information

## Ordering Information

Part Number	Type	Code	Cable type	Cable no.
1-2823445-1	Plug	D-code	Cat 5 Radox 6.6mm	H & S 12584038
1-2823446-1	Socket	D-code	Cat 5 Radox 6.6mm	H & S 12584038
1-2823445-2	Plug	D-code	Cat 5 Radox 7.3mm	H & S 12568935
1-2823446-2	Socket	D-code	Cat 5 Radox 7.3mm	H & S 12568935
1-2823445-3	Plug	D-code	Cat 5 Radox 8.3mm	H & S 12585489
1-2823446-3	Socket	D-code	Cat 5 Radox 8.3mm	H & S 12585489
1-2823445-4	Plug	D-code	Cat 7 Radox 8.2mm	H & S 84124806
1-2823446-4	Socket	D-code	Cat 7 Radox 8.2mm	H & S 84124806
1-2823445-5	Plug	D-code	Cat 5 Radox 7.3mm	H & S 12568935
1-2823446-5	Socket	D-code	Cat 5 Radox 7.3mm	H & S 12568935
1-2823445-6	Plug	D-code	Cat 5 Megaline 5.3mm	Leoni 20123 3103012
1-2823446-6	Socket	D-code	Cat 5 Megaline 5.3mm	Leoni 20123 3103012
1-2823445-7	Plug	D-code	Cat 7 Radox 8.2mm	H & S 84124806
1-2823446-7	Socket	D-code	Cat 7 Radox 8.2mm	H & S 84124806
1-2823445-8	Plug	D-code	Cat 5 Belden 6.7mm	Belden BE43769
1-2823446-8	Socket	D-code	Cat 5 Belden 6.7mm	Belden BE43769
1-2823445-9	Plug	D-code	Cat 5 Radox 6.6mm	Leoni 303195
1-2823446-9	Socket	D-code	Cat 5 Radox 6.6mm	Leoni 303195
1-2823449-1	Plug	A-code	Cat 5 Radox 6.6mm	H & S 12584038
1-2823450-1	Socket	A-code	Cat 5 Radox 6.6mm	H & S 12584038
1-2823449-2	Plug	A-code	Cat 5 Radox 7.3mm	H & S 12568935
1-2823450-2	Socket	A-code	Cat 5 Radox 7.3mm	H & S 12568935
1-2823449-3	Plug	A-code	Cat 5 Radox 8.3mm	H & S 12585489
1-2823450-3	Socket	A-code	Cat 5 Radox 8.3mm	H & S 12585489
1-2823449-4	Plug	A-code	Cat 5 Radox 7.3mm	H & S 12568935
1-2823450-4	Socket	A-code	Cat 5 Radox 7.3mm	H & S 12568935
1-2823447-1	Plug	A-code	Cat 7 Radox 8.2mm	H & S 84124806
1-2823448-1	Socket	A-code	Cat 7 Radox 8.2mm	H & S 84124806
1-2823447-2	Plug	A-code	Cat 7 Betatrans data C-flex 8.8mm	Leoni 302834 - 871433
1-2823448-2	Socket	A-code	Cat 7 Betatrans data C-Flex 8.8mm	Leoni 302834 - 871433
1-2823449-5	Plug	A-code	Cat 5 Radox 6.6mm	H & S 12584038
1-2823450-5	Socket	A-code	Cat 5 Radox 6.6mm	H & S 12584038
1-2823447-3	Plug	A-code	Cat 5 Megaline 5.3mm	Leoni 20123 3103012
1-2823448-3	Socket	A-code	Cat 5 Megaline 5.3mm	Leoni 20123 3103012
1-2823447-4	Plug	A-code	Cat 7 Radox 8.2mm	H & S 84124806
1-2823448-4	Socket	A-code	Cat 7 Radox 8.2mm	H & S 84124806
1-2823447-5	Plug	A-code	Cat 5 Megaline 5.3mm	Leoni 20123 3103012
1-2823448-5	Socket	A-code	Cat 5 Megaline 5.3mm	Leoni 20123 3103012
1-2823447-6	Plug	A-code	Cat 7 Radox 8.2mm	H & S 84124806
1-2823448-6	Socket	A-code	Cat 7 Radox 8.2mm	H & S 84124806

### ABOUT TE CONNECTIVITY

TE Connectivity (NYSE: TEL) is a \$12 billion global technology leader. Our connectivity and sensor solutions are essential in today's increasingly connected world. We collaborate with engineers to transform their concepts into creations - redefining what's possible using intelligent, efficient and high-performing TE products and solutions proven in harsh environments. Our 75,000 people, including 7,300 design engineers, partner with customers in close to 150 countries across a wide range of industries. We believe **EVERY CONNECTION COUNTS** - [www.TE.com](http://www.TE.com).