





## M12 X-CODE CONNECTOR SERIES

M12 X-CODE SERIES /// DATA SHEET

# M12 X-CODE SERIES

Modern Railway networks are all about speed and reliability. If it were the data transmission speed, the assembly time, avoiding network interruptions or reducing cost of service, all are equally important.

Our full metal shell IP67 sealed X-coded M12 connector offers all of the above and more in one product.

The 360° cable shield termination ensures the best possible data transmission speed while the machined, gold plated crimp contacts and unique torsion free jacket crimping system guarantees uninterrupted service throughout the connector lifetime.



### **Benefits**



- Speed: up to 10Gb/second according to IEC 802.3an Cat 6a
- Reliability: Unique cable jacket crimping system leads to fail safe connections
- High data performance due to 360° EMI shielding
- High system reliability due to Torsion free cable crimping leads to reduced cost of service
- Field installable and compact dimensions
- Full metal shell and IP67 sealed
- Turned contacts for high vibration environments
- All non metal compenents except for the booth NFF-16-101/102 and EN45545-2 HL3 compliant
- The crimp flange and crimp barrel will be qualified to match the chosen cable contacts available for wire size AWG22-28



Technical Data		
Connectors	M12 acc. IEC 61076-2-109	
Coding-Pin number	X	
Current rating	0.5 A	
Nominal voltage	48 V	
Contact resistance	<u>≤</u> 5 mΩ	
Insulation resistance	≥ 100 mΩ	
Overvoltage category	acc. to EN 60664-1:2007	
Pollution degree	3 acc. to EN 60664-1:2007	
Category	cat. 6 <sub>A</sub>	
Data transmission rate	Up to 10Gbit acc. to IEC 802.3an	
Termination single wire	Machined crimp snap-in contacts	
Wire size	AWG 22-28	
Cable strain relief and cable shield termination	Crimp flange system with crimp insert + crimp sleeve	
IP protection	IP67 (only screw-locked)	
Temperature range	With grip cap: -40°C to +70°C Without grip cap: -40°C to +85°C	
Mechanical lifetime	≥ 250 mating cycles	
Shock and vibration	DIN EN 61373 Category 1, class B	
Materials		
Housing	Cu alloy Ni plated	
Insulator & Contact holder	Thermoplast I2/F2 acc. to NFF-16-101/102 and HL3 acc. to R22/R23 EN45545-2	
Material	Cu alloy	
Plating	Au	
Grip booth	TPE with S3 and SR2 acc. to DIN 5510-2	
Sealings	Elastomer	



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#### TECHNICAL SUPPORT

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