



Pushing Performance
Since 1945

M12-MD IDC Female Straight 8Pole X-coded



Image is for illustration purposes only. Please refer to product description.

Part number	21 12 283 2801
Specification	M12-MD IDC Female Straight 8Pole X-coded
HARTING eCatalogue	https://harting.com/21122832801

Identification

Category	Connectors
Series	Circular connectors M12
Identification	Screw
Element	Cable connector
Specification	Straight

Version

Termination method	IDC insulation displacement termination
Gender	Female
Shielding	Shielded
Number of contacts	8
Coding	X-coding
Locking type	Screw locking

Technical characteristics

Conductor cross-section (AWG)	AWG 26 ... AWG 23
Wire outer diameter	0.9 ... 1.6 mm
Rated current	0.5 A
Rated impulse voltage	0.8 kV
Pollution degree	3
Transmission characteristics	Cat. 6A Class E _A up to 500 MHz
Overvoltage category	III
Data rate	10 Gbit/s



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Technical characteristics

Insulation resistance	$>10^8 \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
Tightening torque	0.6 Nm
Limiting temperature	-40 ... +85 °C
Mating cycles	≥ 100
Degree of protection acc. to IEC 60529	IP65 / IP67 mated condition
Cable diameter	5 ... 10.5 mm
Isolation group	I ($600 \leq \text{CTI}$)

Material properties

Material (insert)	PA66
Material (contacts)	Copper alloy
Surface (contacts)	Au over Ni Mating side
Material (hood/housing)	Zinc die-cast
RoHS	compliant
ELV status	compliant
China RoHS	e
REACH Annex XVII substances	Not contained
REACH ANNEX XIV substances	Not contained
REACH SVHC substances	Not contained
California Proposition 65 substances	Yes
California Proposition 65 substances	Nickel
Fire protection on railway vehicles	EN 45545-2 (2020-08) + A1 (2023-10)
Requirement set with Hazard Levels	no requirements (flammable mass < 10g)

Specifications and approvals

Specifications	IEC 61076-2-109
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Commercial data

Packaging size	1
Net weight	80 g
Country of origin	Romania
European customs tariff number	85366990
GTIN	5713140542617



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eCl@ss	27440116 Circular connector (for field assembly)
ETIM	EC002635
UNSPSC 24.0	39121413