

M12 MAGNETICS X-CODED STRAIGHT POE 1GB



Part number 21 03 381 2824

Specification M12 MAGNETICS X-CODED STRAIGHT POE 1GB

HARTING eCatalogue https://b2b.harting.com/21033812824

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

Identification

Category	Connectors
Series	Circular connectors M12
Identification	Magnetics PushPull
Element	PCB adapter
Specification	with integrated transformer Straight incl. housing Power over Ethernet (PoE+) for front mounting

Version

Technical characteristics

Rated current	0.8 A
Rated voltage	57 V
Rated impulse voltage	1.5 kV
Pollution degree	3



Technical characteristics

Data rate	1 Gbit/s
Insulation resistance	>10 ⁸ Ω
Contact resistance	≤10 mΩ
Tightening torque	2 Nm Lock nut
Limiting temperature	-40 +85 °C (during reflow soldering max. +245)
Insertion force	30 N
Withdrawal force	30 N
Mating cycles	≥100
Degree of protection acc. to IEC 60529	IP65 / IP67 mated condition
Isolation group	IIIa (175 ≤ CTI < 400)
Process Sensitivity Level (PSL)	R7 acc. to ECA/IPC/JEDEC J-STD-075

Material properties

Material (insert)	Liquid crystal polymer (LCP)
Colour (insert)	Black
Material (contacts)	Brass
Surface (contacts)	Au over Ni Mating side
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	6(c): Copper alloy containing up to 4 % lead by weight
ELV status	compliant with exemption
China RoHS	50
REACH Annex XVII substances	Not contained
REACH ANNEX XIV substances	Not contained
REACH SVHC substances	Yes
REACH SVHC substances	Lead
ECHA SCIP number	0d7d3693-d625-47ab-934a-d241bf72c86e
California Proposition 65 substances	Yes
California Proposition 65 substances	Lead Nickel Naphthalene
Fire protection on railway vehicles	EN 45545-2 (2020-08)
Requirement set with Hazard Levels	R26



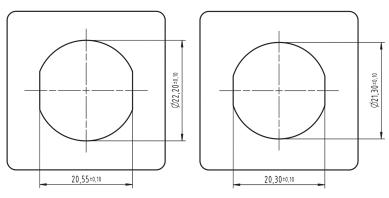
Specifications and approvals

Specifications	IEC 61076-2-109	
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Commercial data

Packaging size	1
Net weight	23 g
Country of origin	China
European customs tariff number	85366990
GTIN	5713140228924
eCl@ss	27460201 PCB connector (board connector)

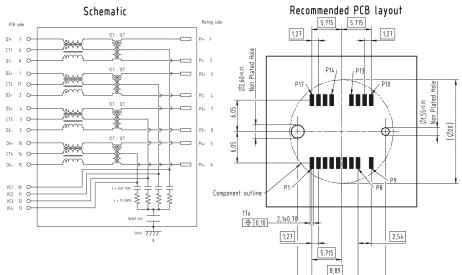
Panel cut out



Front mounting use

Rear mounting use

General information



Electrical Characteristics @+25°C unless otherwise noted Meets IEEE802.3 specification RoHS compliant

Parameter	Specification/ Limit Values	
Operating Temperature	-40°C - +85°C	
Turn Ratio (+/- 2%)	1CT : 1CT	
Current Capacity Pins 1-8/ VC1-VC4	750mA DC	
OCL	min 350µH @ 100KHz , 100mV with 8mA bias current	
Isolation (Input- Output)	2.25kV VDC , for 60sec. min	
	f ≤ 100MHz	
Insertion Loss	1.3 dB	
Return Loss	9 dB	
Crosstalk	30 dB	
CMRR	30 dB	
CDMR	30 dB	
NOTE: 1. f is the freqency in MHz		
2. The Product has been tested for DC isolation HADTING		

The Product has been tested for DC isolation. HARTING assumes no liability or obligation for AC isolation testing.