



Pushing Performance  
Since 1945

# M12 MAGNETICS X-CODED ANGLED POE 1GB



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

Part number	21 03 381 4826
Specification	M12 MAGNETICS X-CODED ANGLED POE 1GB
HARTING eCatalogue	<a href="https://harting.com/21033814826">https://harting.com/21033814826</a>

## Identification

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

## Version

Termination method	Reflow soldering termination (SMT)
Gender	Female
Shielding	Shielded
Number of contacts	8
Coding	X-coding
Locking type	Screw locking PushPull

## Technical characteristics

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



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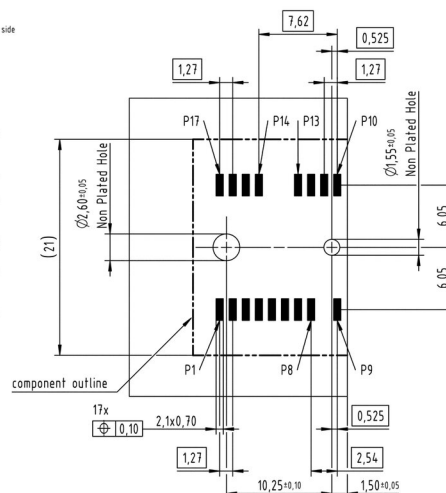
## Technical characteristics

Data rate	1 Gbit/s
Insulation resistance	$>10^8 \Omega$
Contact resistance	$\leq 10 \text{ m}\Omega$
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	$\geq 100$
Degree of protection acc. to IEC 60529	IP65 / IP67 mated condition
Isolation group	IIIa ( $175 \leq \text{CTI} < 400$ )
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

## Rear mounting use



Parameter	Specification/ Limit Values
Operating Temperature	-40°C ~ +85°C
Turn Ratio (+/- 2%)	1CT : 1CT
Current Capacity Pins 1-8/ VC1-VC4	150mA 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

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