

# M12 transf. 10GBASE-T x ANG w/o PoE+



Part number	21 03 381 4823
Specification	M12 transf. 10GBASE-T x ANG w/o PoE +
HARTING eCatalogue	https://b2b.harting.com/21033814823

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

## Identification

Category	Connectors
Series	Circular connectors M12
Identification	Magnetics
Element	PCB adapter
Specification	with integrated transformer Angled

# Version

Termination method	Reflow soldering termination (SMT)
Gender	Female
Shielding	Shielded
Number of contacts	8
Coding	X-coding
Details	Order housings separately
Pack contents	30 pieces in a tray

# **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	10 Mbit/s 100 Mbit/s 1 Gbit/s 2.5 Gbit/s 5 Gbit/s 10 Gbit/s
Insulation resistance	>10 <sup>8</sup> Ω
Contact resistance	≤10 mΩ
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

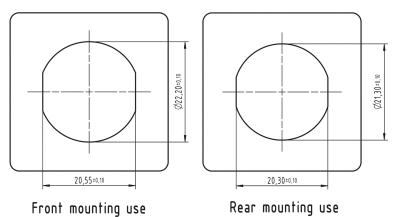
Material (insert)	Liquid crystal polymer (LCP)
Colour (insert)	Black
Material (contacts)	Brass
Surface (contacts)	Au over Ni Mating side
Material flammability class acc. to UL 94	V-0
RoHS	compliant with exemption
RoHS exemptions	6(c): Copper alloy containing up to 4 % lead by weight
ELV status	compliant 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)

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Material properties	
Requirement set with Hazard Levels	R26
Specifications and approvals	
Specifications	IEC 61076-2-109
Commercial data	
Packaging size	30
Net weight	19.25 g
Country of origin	China
European customs tariff number	85366990
GTIN	5713140228962
eCl@ss	27460201 PCB connector (board connector)

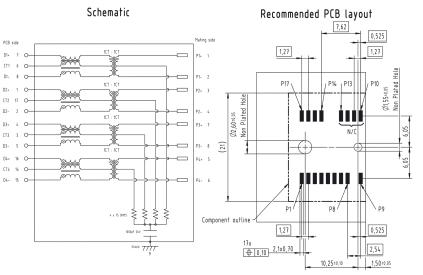
### Panel cut out



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#### General information



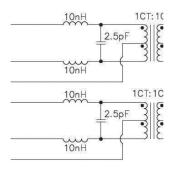
Electrical Characteristics @+25°C unless otherwise noted Meets IEEE802.3 specification RoHS compliant

Parameter	Specification/ Limit Values
Operating Temperature	40°C - +85°C
Turn Ratio (+/- 2%)	1CT : 1CT
Current Capacity Pins 1-8 / VC1-VC4	750mA
OCL	min 120µH @ 100KHz , 100mV with 18mA bias current
Isolation (Input- Output)	2.25kV VDC , for 60sec. min
	0.1MHz < f ≤ 500 MHz
Insertion Loss	3.1 db
Return Loss	5 db
Crosstalk	23 db
CMRR	20 db
CDMR	20 db
NOTE: 1. f is the freqency in MHz	
<ol><li>The Product has been tested for DC isolation. HARTING assumes no</li></ol>	

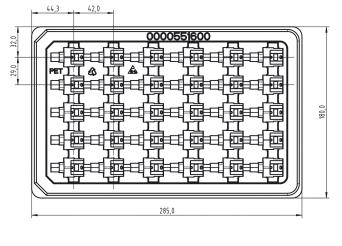
liability or obligation for AC isolation testing.

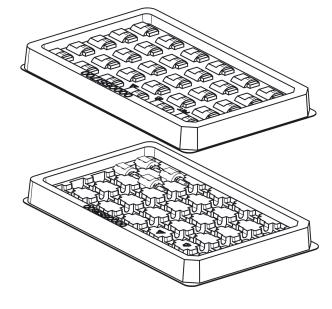
1. Bound you consistent to the M2M application control of the magnetic sense of the https://www.application.com/application

Detail A



## Tape layout & packaging





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