

## M12 transf. 10/100BASE-T d ANG w/o PoE



Part number	21 03 381 4420
Specification	M12 transf. 10/100BASE-T d ANG w/o PoE
HARTING eCatalogue	https://b2b.harting.com/21033814420

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	4
Coding	D-coding
Details	Order housings separately
Pack contents	30 pieces in a tray

## **Technical characteristics**

Rated current	3 A
Rated voltage	57 V
Rated impulse voltage	1.5 kV
Pollution degree	3
Transmission characteristics	Cat. 5 Class D up to 100 MHz
Data rate	10 Mbit/s 100 Mbit/s

Page 1 / 4 | Creation date 2022-10-26 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity with applicable laws and directives, as well as for the electrical safety in the particular application. HARTING Electronics GmbH | Marienwerderstraße 3 | 32339 Espelkamp | Germany Phone +49 5772 47-97200 | electronics@HARTING.com | www.HARTING.com



**Pushing Performance** Since 1945

## **Technical characteristics**

Insulation resistance	>10 <sup>8</sup> Ω
Contact resistance	≤10 mΩ
Limiting temperature	-40 +85 °C (during reflow soldering max. +245)
Insertion force	10 N
Withdrawal force	15 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

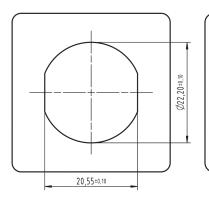
Page 2 / 4 | Creation date 2022-10-26 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity with applicable laws and directives, as well as for the electrical safety in the particular application. HARTING Electronics GmbH | Marienwerderstraße 3 | 32339 Espelkamp | Germany Phone +49 5772 47-97200 | electronics@HARTING.com | www.HARTING.com



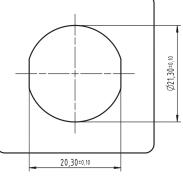
## Specifications and approvals

Specifications	IEC 61076-2-101
Commercial data	
Packaging size	30
Net weight	20.39 g
Country of origin	China
European customs tariff number	85366990
GTIN	5713140228856
eCl@ss	27460201 PCB connector (board connector)

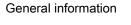
#### Panel cut out

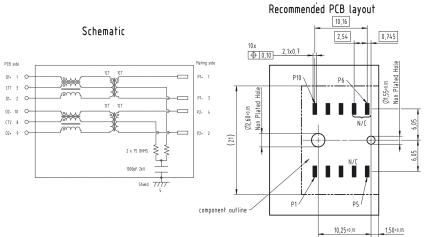


Front mounting use



# Rear mounting use





Electrical Characteristics  $\textcircled{0+25^{\circ}C}$  unless otherwise noted Meets IEEE802.3 specification RoHS compliant

Parameter	Specification/ Limit Values
Operating Temperature	-40°C - +85°C
Turn Ratio (+/- 2%)	1CT : 1CT
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	
<ol><li>The Product has been tested for DC isolation. HARTING</li></ol>	

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

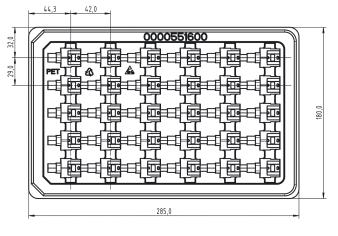
Page 3 / 4 | Creation date 2022-10-26 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity with applicable laws and directives, as well as for the electrical safety in the particular application. HARTING Electronics GmbH | Marienwerderstraße 3 | 32339 Espelkamp | Germany

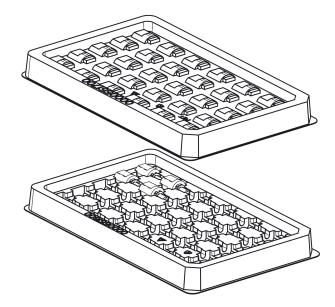
Phone +49 5772 47-97200 | electronics@HARTING.com | www.HARTING.com

Product data sheet 21 03 381 4420 M12 transf. 10/100BASE-T d ANG w/o PoE



Tape layout & packaging





Page 4 / 4 | Creation date 2022-10-26 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity with applicable laws and directives, as well as for the electrical safety in the particular application. HARTING Electronics GmbH | Marienwerderstraße 3 | 32339 Espelkamp | Germany Phone +49 5772 47-97200 | electronics@HARTING.com | www.HARTING.com