

M12 transf. 10GBASE-T x STR with PoE+



Part number	21 03 381 2823
Specification	M12 transf. 10GBASE-T x STR with PoE +
HARTING eCatalogue	https://harting.com/21033812823

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
	Straight
	Power over Ethernet (PoE+)

Version

Termination method	Reflow soldering termination (SMT)
Gender	Female
Shielding	Shielded
Number of contacts	8
Coding	X-coding
Details	Order housings separately
Pack contents	60 pieces in a tray

Technical characteristics

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

Page 1 / 4 | Creation date 2025-04-12 | 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



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 ⁸ 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	Illa (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
Fire protection on railway vehicles	EN 45545-2 (2020-08)

Page 2 / 4 | Creation date 2025-04-12 | 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



Material properties

Requirement set with Hazard Levels R26

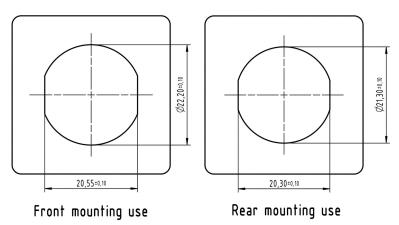
Specifications and approvals

Specifications	IEC 61076-2-109

Commercial data

Packaging size	1
Net weight	5.91 g
Country of origin	China
European customs tariff number	85366990
GTIN	5713140228917
eCl@ss	27460201 PCB connector (board connector)
ETIM	EC002637
UNSPSC 24.0	39121415

Panel cut out

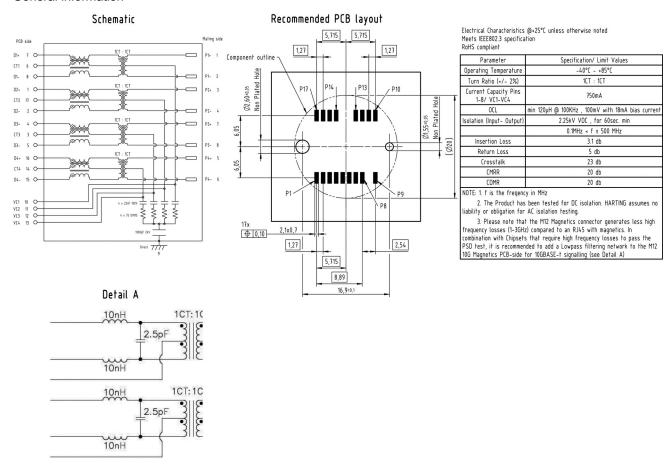


Page 3 / 4 | Creation date 2025-04-12 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity with applicable laws and directives, as well as for the electrical safety in the particular application.

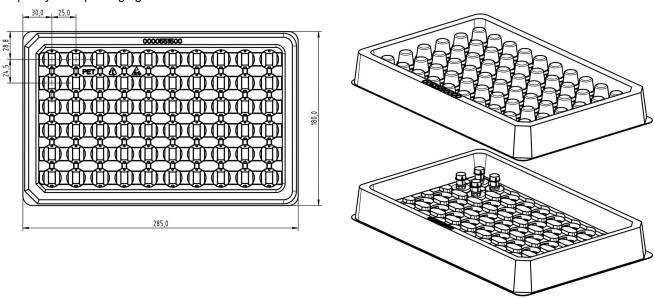
HARTING Electronics GmbH | Marienwerderstraße 3 | 32339 Espelkamp | Germany
Phone +49 5772 47-97200 | electronics@HARTING.com | www.HARTING.com



General information



Tape layout & packaging



Page 4 / 4 | Creation date 2025-04-12 | 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