



Pushing Performance  
Since 1945

# M12 transf. 10/100BASE-T d STR



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

|                    |                                                                                       |
|--------------------|---------------------------------------------------------------------------------------|
| Part number        | 21 03 381 2410                                                                        |
| Specification      | M12 transf. 10/100BASE-T d STR                                                        |
| HARTING eCatalogue | <a href="https://b2b.harting.com/21033812410">https://b2b.harting.com/21033812410</a> |

## Identification

|                |                                         |
|----------------|-----------------------------------------|
| Category       | Connectors                              |
| Series         | Circular connectors M12                 |
| Identification | Magnetics                               |
| Element        | PCB adapter                             |
| Specification  | with integrated transformer<br>Straight |

## Version

|                    |                                    |
|--------------------|------------------------------------|
| Termination method | Reflow soldering termination (SMT) |
| Gender             | Female                             |
| Shielding          | Shielded                           |
| Number of contacts | 4                                  |
| Coding             | D-coding                           |
| Details            | Order housings separately          |
| Pack contents      | 60 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<br>100 Mbit/s      |



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## Technical characteristics

|                                        |                                                    |
|----------------------------------------|----------------------------------------------------|
| Insulation resistance                  | $>10^8 \Omega$                                     |
| Contact resistance                     | $\leq 10 \text{ m}\Omega$                          |
| Limiting temperature                   | -40 ... +85 °C (during reflow soldering max. +245) |
| Insertion force                        | 10 N                                               |
| Withdrawal force                       | 15 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                                                    |

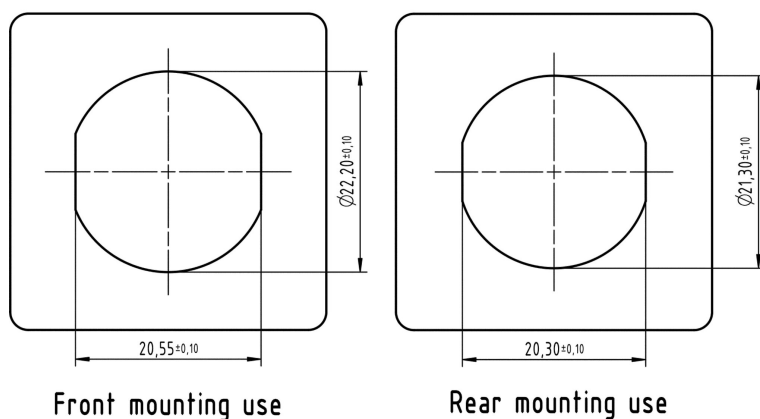
## Specifications and approvals

|                |                 |
|----------------|-----------------|
| Specifications | IEC 61076-2-101 |
|----------------|-----------------|

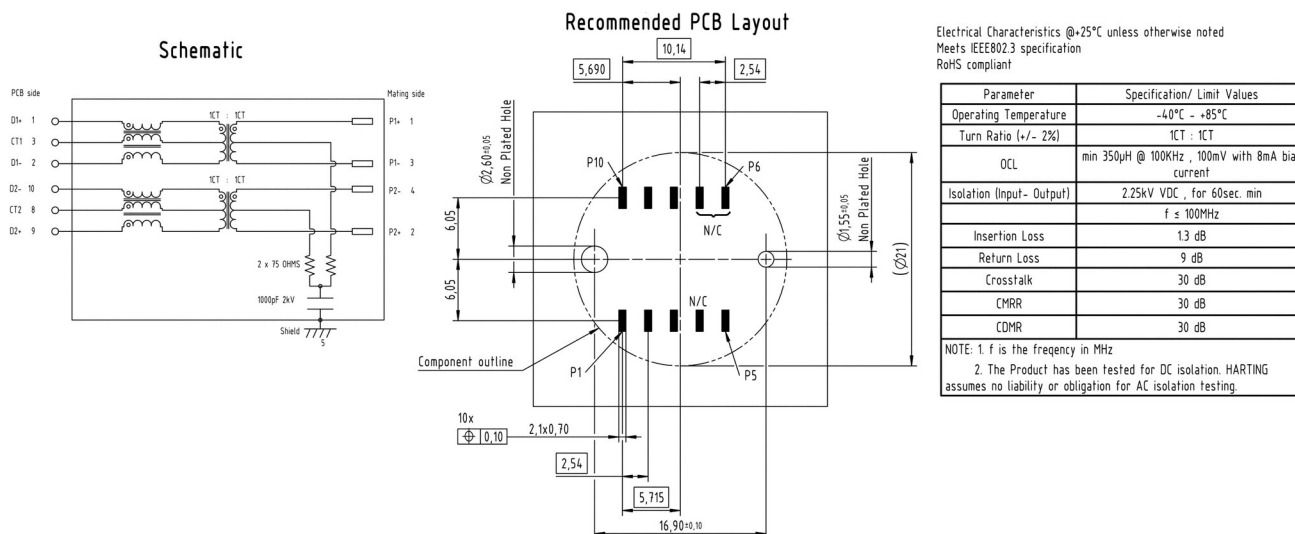
## Commercial data

|                                |                                          |
|--------------------------------|------------------------------------------|
| Packaging size                 | 60                                       |
| Net weight                     | 7.8 g                                    |
| Country of origin              | China                                    |
| European customs tariff number | 85366990                                 |
| GTIN                           | 5713140228825                            |
| ETIM                           | EC002637                                 |
| eCl@ss                         | 27460201 PCB connector (board connector) |

## Panel cut out



## General information



# Tape layout & packaging

