

## M12 PushPull 8-pole X-coded female



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

|                    |   |
|--------------------|---|
| Part number        | 21 03 881 2830  |
| Specification      | M12 PushPull 8-pole X-coded female  |
| HARTING eCatalogue | <a href="https://b2b.harting.com/21038812830">https://b2b.harting.com/21038812830</a> |

### Identification

|                |                         |
|----------------|-------------------------|
| Category       | Connectors              |
| Series         | Circular connectors M12 |
| Identification | PushPull                |
| Element        | Cable connector         |
| Specification  | Straight                |

### Version

|                    |  |
|--------------------|--|
| Termination method | Crimp termination                            |
| Gender             | Female                                       |
| Shielding          | Shielded                                     |
| Number of contacts | 8  |
| Coding             | X-coding                                     |
| Locking type       | Outer PushPull                               |
| Details            | Please order crimp contacts separately.      |
| Details            | For Ethernet applications up to 10 Gbit only |

### Technical characteristics

|                         |                               |
|-------------------------|-------------------------------|
| Conductor cross-section | 0.08 ... 0.25 mm <sup>2</sup> |
| Conductor cross-section | AWG 28 ... AWG 23             |
| Wire outer diameter     | ≤1.4 mm                       |
| Rated current           | 0.5 A                         |
| Rated voltage           | 48 V                          |
| Rated impulse voltage   | 0.8 kV                        |



Pushing Performance  
Since 1945

## Technical characteristics

|  |  |
|--|--|
| Pollution degree                       | 3  |
| Transmission characteristics           | Cat. 6 <sub>A</sub> Class E <sub>A</sub> up to 500 MHz                     |
| Overvoltage category                   | III  |
| Data rate                              | 10 Mbit/s<br>100 Mbit/s<br>1 Gbit/s<br>2.5 Gbit/s<br>5 Gbit/s<br>10 Gbit/s |
| Insulation resistance                  | >10 <sup>8</sup> Ω   |
| Contact resistance                     | ≤10 mΩ   |
| Limiting temperature                   | -40 ... +85 °C   |
| Mating cycles                          | ≥500   |
| Degree of protection acc. to IEC 60529 | IP65 / IP67 mated condition  |
| Cable diameter                         | 5.7 ... 8.8 mm   |
| Isolation group                        | I (600 ≤ CTI)  |

## Material properties

|                         |                              |
|-------------------------|------------------------------|
| Material (insert)       | Liquid crystal polymer (LCP) |
| Material (hood/housing) | Zinc die-cast                |

## Specifications and approvals

|                |                                    |
|----------------|------------------------------------|
| Specifications | IEC 61076-2-109<br>IEC 61076-2-010 |
|----------------|------------------------------------|

## Commercial data

|                                |  |
|--------------------------------|--|
| Packaging size                 | 1  |
| Country of origin              | Romania  |
| European customs tariff number | 85389099   |
| GTIN                           | 5713140227064                                    |
| eCl@ss                         | 27440116 Circular connector (for field assembly) |