

## har-speed M12 crimp 8-pole male shielded



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

|               |  |
|---------------|--|
| Part number   | 21 03 881 5805                           |
| Specification | har-speed M12 crimp 8-pole male shielded |

### Identification

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

### Version

|                    |  |
|--------------------|--|
| Termination method | Crimp termination                            |
| Gender             | Male   |
| Shielding          | Shielded                                     |
| Number of contacts | 8  |
| Coding             | X-coding                                     |
| Locking type       | Screw locking                                |
| 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 24             |
| Wire outer diameter     | ≤0.61 mm                      |
| Rated current           | 0.5 A                         |
| Rated voltage           | 48 V                          |
| Rated impulse voltage   | 1.5 kV                        |
| Pollution degree        | 3                             |



Pushing Performance  
 Since 1945

## Technical characteristics

|   |  |
|---|--|
| Transmission characteristics              | Cat. 6 <sub>A</sub> Class E <sub>A</sub> up to 500 MHz |
| Overvoltage category                      | III  |
| 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   |
| Tightening torque                         | 0.6 Nm   |
| Wrench size (knurled screw / knurled nut) | 17   |
| Limiting temperature                      | -40 ... +85 °C   |
| Mating cycles                             | ≥500   |
| Degree of protection acc. to IEC 60529    | IP65 / IP67 mated condition                            |
| Cable diameter                            | 4.5 ... 8.8 mm   |
| Isolation group                           | I (600 ≤ CTI)  |

## Material properties

|                                      |                |
|--------------------------------------|----------------|
| Material (insert)                    | Polyamide (PA) |
| Material (hood/housing)              | Zinc die-cast  |
| RoHS                                 | compliant      |
| ELV status                           | compliant      |
| China RoHS                           | e              |
| REACH Annex XVII substances          | Not contained  |
| REACH ANNEX XIV substances           | Not contained  |
| REACH SVHC substances                | Not contained  |
| California Proposition 65 substances | Yes            |
| California Proposition 65 substances | Lead           |
|                                      | Nickel         |
|                                      | Naphthalene    |

## Specifications and approvals

|                |                 |
|----------------|-----------------|
| Specifications | IEC 61076-2-109 |
|----------------|-----------------|



## Specifications and approvals

|          |                                   |
|----------|-----------------------------------|
| UL / CSA | UL 1977 ECBT2.E102079             |
|          | CSA-C22.2 No. 182.3 ECBT8.E102079 |

## Commercial data

|                                |  |
|--------------------------------|--|
| Packaging size                 | 10   |
| Net weight                     | 105 g  |
| Country of origin              | Germany  |
| European customs tariff number | 85366990   |
| eCl@ss                         | 27440116 Circular connector (for field assembly) |