

MPP-CC-IDC-ix-10p-M-P-STR A-cod AWG28-26



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

| | |
|--------------------|---|
| Part number | 09 51 121 0001 |
| Specification | MPP-CC-IDC-ix-10p-M-P-STR A-cod AWG28-26 |
| HARTING eCatalogue | https://harting.com/09511210001 |

Identification

| | |
|----------------|-------------------------------|
| Category | Connectors |
| Series | HARTING Mini PushPull |
| Identification | HARTING ix Industrial® |
| Element | Connector sets |
| Features | Suitable for all PoE versions |

Version

| | |
|--------------------|---|
| Termination method | IDC insulation displacement termination |
| Shielding | Fully shielded, 360° shielding contact |
| Number of contacts | 8 |
| further contacts | + 2x GND |
| Coding | Type A |
| Locking type | PushPull |
| Pack contents | incl. housing, HARTING ix Industrial®-connector type A, shielding and cable gland |

Technical characteristics

| | |
|-------------------------------|---|
| Conductor cross-section | 0.09 ... 0.14 mm ² |
| Conductor cross-section [AWG] | AWG 28 ... AWG 26 |
| Wire outer diameter | ≤1.2 mm |
| Rated current | 1.5 A |
| Rated current | 3 A per contact when used with 4 contacts (1,2,6,7) |
| Rated voltage | 50 V AC 60 V DC |



Pushing Performance
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Technical characteristics

| | |
|--|---|
| Transmission characteristics | Cat. 6 _A Class E _A up to 500 MHz |
| Data rate | 10 Mbit/s |
| | 100 Mbit/s |
| | 1 Gbit/s |
| | 2.5 Gbit/s |
| | 5 Gbit/s |
| | 10 Gbit/s |
| Insulation resistance | >100 MΩ |
| Contact resistance | ≤30 mΩ |
| Shielding resistance | ≤100 mΩ |
| Limiting temperature | -40 ... +70 °C |
| Storage temperature | -60 ... +85 °C |
| Relative humidity | 95 % Non-condensing (operation) |
| | 95 % Non-condensing (storage/transport) |
| Mating cycles | ≥750 |
| Degree of protection acc. to IEC 60529 | IP65 / IP67 |
| Cable diameter | 5.5 ... 7.5 mm |
| Test voltage U _{r.m.s.} | 0.5 kV (contact-contact) |
| | 0.5 kV (contact-shielding) |
| Vibration resistance | 10-500 Hz, 5 g, 0.35 mm, 2h/axis |
| | 5.72 m/s ² acc. to IEC 61373 Category 1 Class B |
| Shock resistance | 50 g / 11 ms, 3 shocks / axis and direction |
| | 5 g / 30 ms, 5 shocks / axis and direction acc. to IEC 61373 Category 1 Class B |

Material properties

| | |
|-------------------------|--|
| Material (insert) | Polyamide (PA) |
| Colour (insert) | Black |
| Material (shielding) | Stainless steel |
| | Ni ≥ 1.6 μm Mating side (shielding) |
| | Sn ≥ 0.9 μm over Ni ≥ 0.9 μm Termination side (shielding) |
| Material (contacts) | Copper alloy |
| Surface (contacts) | PdNi ≥ 0.64 μm + Au ≥ 0.05 μm over Ni ≥ 2.6 μm Mating side |
| | Sn ≥ 3 μm over Ni ≥ 1.8 μm Termination side |
| Material (hood/housing) | Polybutylene terephthalate (PBT) / PA66 |
| Colour (hood/housing) | Black |
| Material (seal) | HNBR / NBR |
| Colour (seal) | Black |
| Material (locking) | Polybutylene terephthalate (PBT) |



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Material properties

| | |
|---|--------------------------------------|
| Colour (locking) | Yellow |
| Material flammability class acc. to UL 94 | V-0 |
| 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 |
| ECHA SCIP number | 5b0b428a-c671-4c90-9b6d-16804ea5737a |
| California Proposition 65 substances | Yes |
| California Proposition 65 substances | Nickel |
| Fire protection on railway vehicles | EN 45545-2 (2020-08) + A1 (2023-10) |
| Requirement set with Hazard Levels | R26 |

Specifications and approvals

| | |
|----------------|--|
| Specifications | IEC 61076-3-124 Type A EN 50173-1 |
| UL / CSA | UL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079 |

Commercial data

| | |
|--------------------------------|---|
| Packaging size | 1 |
| Net weight | 0.875 g |
| Country of origin | Germany |
| European customs tariff number | 85366990 |
| GTIN | 5713140223387 |
| eCl@ss | 27440114 Rectangular connector (for field assembly) |
| ETIM | EC002636 |
| UNSPSC 24.0 | 39121408 |

Contact configuration



| ix Industrial | 10/100 Mbit/s | 1/10 Gbit/s | TIA | | PROFINET |
|------------------|------------------|----------------|--------------|--------------|----------|
| | | | 568 A | 568 B | |
| 1 | TX+ | BI_DA+ | White/Green | White/Orange | Yellow |
| 2 | TX- | BI_DA- | Green | Orange | Orange |
| 3 | N.C | N.C | N.C | N.C | N.C |
| 4 | N.C | BI_DC+ | Blue | Blue | N.C |
| 5 | N.C | BI_DC- | White/Blue | White/Blue | N.C |
| 6 | RX+ | BI_DB+ | White/Orange | White/Green | White |
| 7 | RX- | BI_DB- | Orange | Green | Blue |
| 8 | N.C | N.C | N.C | N.C | N.C |
| 9 | N.C | BI_DD+ | White/Brown | White/Brown | N.C |
| 10 | N.C | BI_DD- | Brown | Brown | N.C |