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Product data sheet
09 45 181 9023 XL
ix Industrial 8B-1 plug A1-I22

Pushing Performance
Since 1945

# ix Industrial 8B-1 plug A1-I22



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

| | |
|---|---|
| Part number | 09 45 181 9023 XL |
| Specification | ix Industrial 8B-1 plug A1-I22 |
| HARTING eCatalogue | https://b2b.harting.com/09451819023XL |

## Identification

| | |
|---|---|
| Category | Connectors |
| Series | HARTING ix Industrial® |
| Identification | Signal |
| Element | Cable connector |
| Specification | Angled bottom |

## Version

| | |
|---|---|
| Termination method | IDC termination |
| Shielding | Fully shielded, 360° shielding contact |
| Number of contacts | 10 |
| Coding | Type B |
| Pack contents | Bulk packaging |

## Technical characteristics

| | |
|---|---|
| Conductor cross-section | AWG 22/7 |
| Wire outer diameter | 1.4 ... 1.6 mm |
| Rated current | 1.5 A |
| Rated current | 3 A when used with 4 contacts (1,2,6,7) |
| Rated voltage | 50 V AC<br>60 V DC |
| Insulation resistance | >500 MΩ |
| Contact resistance | ≤30 mΩ |
| Shielding resistance | ≤100 mΩ |

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## Technical characteristics

| | |
|---|---|
| Limiting temperature | -40 ... +85 °C |
| Storage temperature | -30 ... +60 °C |
| Relative humidity | 95 % Non-condensing (operation)<br>95 % Non-condensing (storage/transport) |
| Insertion force | ≤25 N |
| Withdrawal force | ≤25 N |
| Mating cycles | ≥5,000 |
| Degree of protection acc. to IEC 60529 | IP20 |
| Cable diameter | 5.5 ... 7.2 mm |
| Test voltage $U_{r.m.s.}$ | 0.5 kV |
| Retention force | ≥80 N locking |

## Material properties

| | |
|---|---|
| Material (insert) | Polyamide (PA) |
| Colour (insert) | Black |
| Material (contacts) | Copper alloy |
| Surface (contacts) | Au over Ni Mating side (≥ 0.2 µm)<br>Au over Ni Termination side (≥ 0.03 µm)<br>Ni Termination side (shielding case ≥ 1 µm)<br>Ni Termination side (shielding shell ≥ 0.2 µm) |
| 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 |
| California Proposition 65 substances | Yes |
| California Proposition 65 substances | Lead<br>Nickel |

## Specifications and approvals

| | |
|---|---|
| Specifications | IEC 61076-3-124<br>EN 45545-2<br>IEEE 802.3af Power over Ethernet (PoE)<br>IEEE 802.3at Power over Ethernet (PoE+)<br>IEEE 802.3bt Power over Ethernet (4PPoE) |

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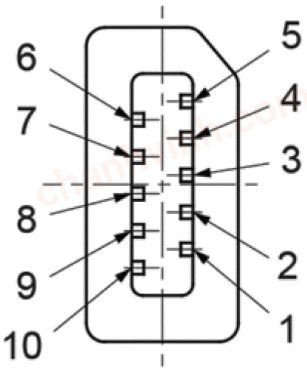
## Specifications and approvals

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

## Commercial data

| | |
|---|---|
| Packaging size | 100 |
| Net weight | 4.95 g |
| Country of origin | Japan |
| European customs tariff number | 85366990 |
| GTIN | 5713140282810 |
| eCl@ss | 27440114 Rectangular connector (for field assembly) |

## Contact configuration




| Environmental Specifications | |
|---|---|
| Rapid change of temperature (IEC 60512-11d) | 10 cycles between -55°C and 85°C<br>with 30 minutes dwell at temp. extremes and 2 to 3minutes transition between temperatures |
| Dry heat (IEC 60512-11i) | +85°C, 500 h |
| Damp heat cycles (IEC 60068-2-38) | 25°C to 65°C; cold sub-cycle: -10°C; relative humidity 93%; 10 cycles, 1 cycle/24h |
| Cold (IEC 60512-11j) | -55°C, 240h |
| Flow mixed gas test (IEC 60068-2-60) | 4 d, Method 4 (mated and unmated) |
| Corrosion salt mist | Exposed at 5% salt water, 35°C, 48h (unmated);<br>no heavy corrosion of contacts |
| Vibration, sinusoidal (IEC 60512-test 6d) | 10 to 500 Hz; 0.35 mm, 50 m/s², 2h / 3 axis;<br>no contact disturbances ≥ 1µs |
| Mechanical shock (IEC 60512-test 6d) | half-sine shock 300 m/s², 11 ms<br>3 shocks / both directions / 3 axis - totally 18 shocks<br>no contact disturbances ≥ 1µs |
| Fretting Corrosion | 490 m/s², 230 times/min at 1000 times<br>no contact disturbances ≥ 1µs |