

# ix Industrial 10B-1 plug A1-I24



| Part number        | 09 45 181 9022 XL                     |
|--------------------|---------------------------------------|
| Specification      | ix Industrial 10B-1 plug A1-l24       |
| HARTING eCatalogue | https://b2b.harting.com/09451819022XL |

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

## Identification

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

## Version

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

# Technical characteristics

| Conductor cross-section | AWG 24/7                                |
|-------------------------|---|
| Wire outer diameter     | 1.1 1.25 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                                 |



## Technical characteristics

| Limiting temperature                   | -40 +85 °C  |
|--|---|
| Storage temperature                    | -30 +60 °C  |
| Relative humidity                      | 95 % Non-condensing (operation) 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 <sub>r.m.s.</sub>       | 0.5 kV  |
| Retention force                        | ≥80 N locking   |

# Material properties

| Material (insert)                         | Polyamide (PA)   |
|---|--|
| Colour (insert)                           | Black<br>Grey  |
| Material (shielding)                      | Stainless steel Ni ≥ 1 µm Termination side (shielding case) Ni ≥ 0.2 µm Termination side (shielding shell) |
| Material (contacts)                       | Copper alloy   |
| Surface (contacts)                        | Au $\geq$ 0.2 µm over Ni $\geq$ 2 µm Mating side<br>Au $\geq$ 0.03 µm over Ni $\geq$ 2 µm Termination side |
| Material (hood/housing)                   | Polycarbonate (PC)   |
| Colour (hood/housing)                     | Grey   |
| Material flammability class acc. to UL 94 | V-0  |
| RoHS                                      | compliant  |
| ELV status                                | compliant  |
| China RoHS                                | е  |
| 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   |



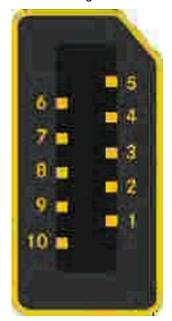
# Specifications and approvals

| Specifications | IEC 61076-3-124                          |
|----------------|--|
|                | EN 45545-2                               |
|                | IEEE 802.3af Power over Ethernet (PoE)   |
|                | IEEE 802.3at Power over Ethernet (PoE+)  |
|                | IEEE 802.3bt Power over Ethernet (4PPoE) |
| UL / CSA       | UL 1977 ECBT2.E102079                    |
|                | CSA-C22.2 No. 182.3 ECBT8.E102079        |

#### Commercial data

| Packaging size                 | 100   |
|--------------------------------|---|
| Net weight                     | 5 g   |
| Country of origin              | Japan   |
| European customs tariff number | 85366990  |
| GTIN                           | 5713140223349                                       |
| ETIM                           | EC002636  |
| 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 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); 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/s <sup>2</sup> , 11 ms 3 shocks / both directions / 3 axis - totally 18 shocks no contact disturbances $\geq$ 1 $\mu$ s |
| Fretting Corrosion                          | 490 m/s², 30 times/min at 1000 times no contact disturbances ≥ 1μs  |
|   |   |