



Pushing Performance  
Since 1945

# ix Industrial 10A-12 jack AV (T&R400)

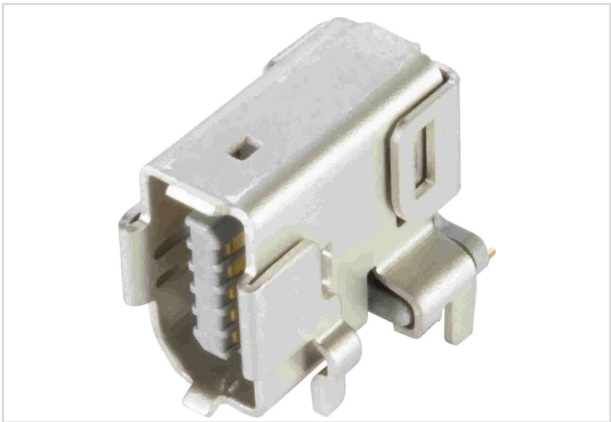


Image is for illustration purposes only. Please refer to product description.

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Part number        | 09 45 283 2560                                                                |
| Specification      | ix Industrial 10A-12 jack AV (T&R400)                                         |
| HARTING eCatalogue | <a href="https://harting.com/09452832560">https://harting.com/09452832560</a> |

## Identification

|                |                        |
|----------------|------------------------|
| Category       | Connectors             |
| Series         | HARTING ix Industrial® |
| Identification | Data                   |
| Element        | PCB connector          |
| Specification  | Angled                 |

## Version

|                    |                                        |
|--------------------|----------------------------------------|
| Termination method | Solder termination                     |
| Shielding          | Fully shielded, 360° shielding contact |
| Number of contacts | 8                                      |
| further contacts   | + 2x GND                               |
| Coding             | Type A                                 |
| Pack contents      | On a reel                              |

## Technical characteristics

|                              |                                                        |
|------------------------------|--------------------------------------------------------|
| Rated current                | 1.5 A                                                  |
|                              | 3 A                                                    |
| Rated current                | 1.5 A per contact                                      |
|                              | 3 A per contact when used with 4 contacts (1,2,6,7)    |
| Rated voltage                | 50 V AC                                                |
|                              | 60 V DC                                                |
| Transmission characteristics | Cat. 6 <sub>A</sub> Class E <sub>A</sub> up to 500 MHz |



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## Technical characteristics

|                                        |                                         |
|----------------------------------------|-----------------------------------------|
| Data rate                              | 10 Mbit/s                               |
|                                        | 100 Mbit/s                              |
|                                        | 1 Gbit/s                                |
|                                        | 2.5 Gbit/s                              |
|                                        | 5 Gbit/s                                |
|                                        | 10 Gbit/s                               |
| Insulation resistance                  | >500 MΩ                                 |
| Contact resistance                     | ≤30 mΩ                                  |
| Shielding resistance                   | ≤100 mΩ                                 |
| 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                                    |
| Test voltage U <sub>DC</sub>           | 0.5 kV (contact-contact)                |
|                                        | 2.25 kV (contact-shielding)             |
| Retention force                        | ≥80 N locking                           |
| Moisture Sensitivity Level (MSL)       | 1 acc. to ECA/IPC/JEDEC J-STD-020D      |
| Process Sensitivity Level (PSL)        | R0 acc. to ECA/IPC/JEDEC J-STD-020D     |

## Material properties

|                                           |                                                    |
|-------------------------------------------|----------------------------------------------------|
| Material (insert)                         | Liquid crystal polymer (LCP)                       |
| Colour (insert)                           | Grey                                               |
| Material (shielding)                      | Stainless steel                                    |
|                                           | Sn ≥ 1 µm over Ni ≥ 0.2 µm Mating side (shielding) |
| Material (contacts)                       | Copper alloy                                       |
| Surface (contacts)                        | Au ≥ 0.2 µm over Ni ≥ 2 µm Mating side             |
|                                           | Au ≥ 0.03 µm over Ni ≥ 2 µm Termination side       |
| 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                                      |



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Material properties

|                                      |               |
|--------------------------------------|---------------|
| REACH SVHC substances                | Not contained |
| California Proposition 65 substances | Not contained |

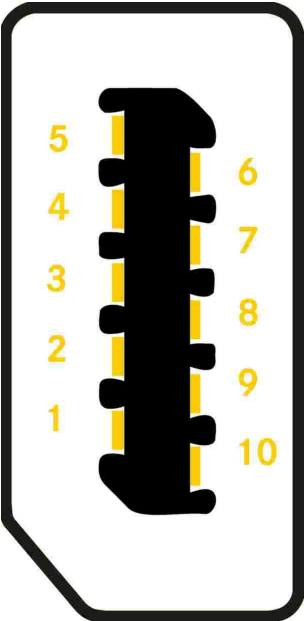
Specifications and approvals

|                |                                                            |
|----------------|------------------------------------------------------------|
| Specifications | IEC 61076-3-124<br>EN 45545-2                              |
| UL / CSA       | UL 1977 ECBT2.E102079<br>CSA-C22.2 No. 182.3 ECBT8.E102079 |
| PROFINET       | Yes                                                        |

Commercial data

|                                |                                          |
|--------------------------------|------------------------------------------|
| Packaging size                 | 400                                      |
| Net weight                     | 1.54 g                                   |
| Country of origin              | Japan                                    |
| European customs tariff number | 85366990                                 |
| GTIN                           | 5713140324831                            |
| eCl@ss                         | 27460201 PCB connector (board connector) |
| ETIM                           | EC002637                                 |
| UNSPSC 24.0                    | 39121415                                 |

Contact configuration





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## 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 3 minutes transition between temperatures                            |
| Dry heat (IEC 60512-11i)                    | +85°C, 500 h                                                                                                                                           |
| Damp heat, steady state (IEC 60512-11-3)    | 40°C; relative humidity 93%; 500 h (Test 11c)                                                                                                          |
| 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/s <sup>2</sup> , 2h / 3 axis; no contact disturbances $\geq 1\mu\text{s}$                                                  |
| Mechanical shock (IEC 60512-test 6d)        | half-sine shock 300 m/s <sup>2</sup> , 11 ms<br>3 shocks / both directions / 3 axis - totally 18 shocks<br>no contact disturbances $\geq 1\mu\text{s}$ |
| Fretting Corrosion                          | 490 m/s <sup>2</sup> , 30 times/min at 1000 times<br>no contact disturbances $\geq 1\mu\text{s}$                                                       |
| Wrenching Strength                          | Applying 25 times / 30N for 1s / in 2 axis on tip of plug case in mated condition<br>no damage, no cracks or looseness of parts                        |