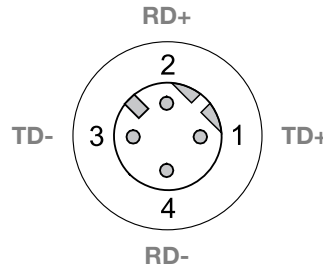


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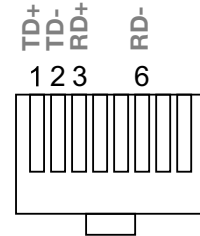


Contact assignments

**M12 connector
(D-coded)**



RJ45 connector



- Can be used with all Leuze products with Ethernet TCP/IP, EtherNet/IP™ or PROFINET IO RT
- Standard cables available in lengths from 1 ... 30m
- Halogen-free
- Silicone-free
- Suitable for drag chains

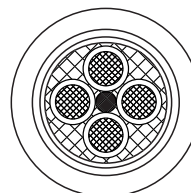
| Contact M12 connector | Signal | Color | Contact RJ45 connector |
|--------------------------|--------|--------|---------------------------|
| 1 | TD+ | yellow | 1 |
| 2 | RD+ | white | 3 |
| 3 | TD- | orange | 2 |
| 4 | RD- | blue | 6 |
| Screw connection | Shield | bare | |



The core colors on the RJ45 connector do not conform to EIA/TIA 568A or EIA/TIA 568B

Cable construction

2x2x0.38mm² (AWG 22)
AWM Style 20236 - PUR - 30V/80°C



We reserve the right to make changes • DS_KB_ET_en.fm



Technical Data

Cable construction

| | |
|-------------|---|
| Conductor | Cu-ETP1 bare, 2x2x0.38mm ² (AWG 22), fine-stranded |
| Insulation | HALOGEN-FREE PE SKIN, wire diameter 1.45 mm |
| Core colors | WH (white), YE (yellow), BU (blue), OG (orange) |
| Shield 1 | Al-Pt foil (outer contact side) |
| Shield 2 | Cu shielded line sheath |
| Sheathing | polyetherurethane (PUR) HALOGEN-FREE FLAME-RETARDANT, MATT; flame-resistance acc. to DIN VDE 0472-804 Inspection Type B, color: green, outer diameter 6.2 ±0.2 mm, surface free of lubricants outer diameter approx. 15mm |

Connector

Electrical data ¹⁾

| | |
|----------------------|------------------------|
| Nominal voltage | ≤ 30V |
| Test voltage | ≥ 2000V _{eff} |
| Conductor resistance | ≤ 60Ω/km |

Environmental data

| | |
|-----------------------------|--|
| Operating temperature range | at rest: -50°C ... +80°C in motion: -25°C ... +80°C |
|-----------------------------|--|

Other requirements

| | |
|----------------------|--|
| PROFINET Ethernet | the cable fulfills the PROFINET C specifications the cable fulfills requirements acc. to IEC 11801, IEC 61156 (CAT 5), EN 50173, EN 50288-2-2 (100MHz cable), EIA/TIA 568B (CAT 5e) exclusion of dangerous materials acc. to 2000/53/EC, 2002/95/EC, 2003/11/EC HALOGEN-, SILICONE- and PVC-free, LABS-free, microbe- and hydrolysis-resistant, flexible at low temperatures |
| Materials | ≥ 32mm in stationary position, ≥ 64mm in flexible use, suitable for drag chains |
| Bending radius | |

1) At 20°C

Order guide

| Part No. | Type / length | Designation |
|----------|---------------------------|-------------|
| 50106738 | KB ET - 1000 - SA | |
| 50106739 | KB ET - 2000 - SA | |
| 50106740 | KB ET - 5000 - SA | |
| 50106741 | KB ET - 10000 - SA | |
| 50106742 | KB ET - 15000 - SA | |
| 50106743 | KB ET - 20000 - SA | |
| 50106745 | KB ET - 25000 - SA | |
| 50106746 | KB ET - 30000 - SA | |
| 50106898 | KB ET - 1000 - SSA | |
| 50106899 | KB ET - 2000 - SSA | |
| 50106900 | KB ET - 5000 - SSA | |
| 50106901 | KB ET - 10000 - SSA | |
| 50106902 | KB ET - 15000 - SSA | |
| 50106903 | KB ET - 20000 - SSA | |
| 50106904 | KB ET - 25000 - SSA | |
| 50106905 | KB ET - 30000 - SSA | |
| 50109879 | KB ET - 1000 - SA - RJ45 | |
| 50109880 | KB ET - 2000 - SA - RJ45 | |
| 50109881 | KB ET - 5000 - SA - RJ45 | |
| 50109882 | KB ET - 10000 - SA - RJ45 | |
| 50109883 | KB ET - 15000 - SA - RJ45 | |
| 50109884 | KB ET - 20000 - SA - RJ45 | |
| 50109885 | KB ET - 25000 - SA - RJ45 | |
| 50109886 | KB ET - 30000 - SA - RJ45 | |

Tables

Diagrams

Remarks

Type code:

| | | | | | | | | | |
|-----------------------------|----|---|-------------------|---|----------------------|----------------------|--------------|---|---------------------------|
| KB | ET | - | xxxxx | - | S | S | A | - | RJ45 |
| | | | | | | | | | |
| Abbreviation for cable | | | Cable length [mm] | | Cable with connector | Cable with connector | Axial design | | Cable with RJ45 connector |
| Cable for Ethernet/PROFINET | | | | | | | | | |