



|       |       |        |      |       |      |      |      |
|-------|-------|--------|------|-------|------|------|------|
| white | green | yellow | grey | brown | n.c. | blue | n.c. |
|-------|-------|--------|------|-------|------|------|------|

## Product Description

|                        |                              |
|------------------------|------------------------------|
| Product Family:        | Sensor / Actuator Connectors |
| Brand:                 | Lumberg Automation           |
| Connector Type:        | Cordset, double ended        |
| Shielding:             | Unshielded                   |
| Rated Voltage:         | 30 V                         |
| Rated Impulse Voltage: | 0.8 kV                       |
| Operating Voltage:     | 30 V AC/DC                   |
| Rated Current*:        | 2 A                          |

## Technical Data Side 1

|                                      |                                          |
|--------------------------------------|------------------------------------------|
| Product Sub Family:                  | M12 Standard                             |
| Type of Contact / Gender:            | Male                                     |
| Connector Design:                    | Straight                                 |
| Attachment Type:                     | Coupling Screw                           |
| Number of Pins:                      | 8                                        |
| Coding:                              | A                                        |
| Contact Resistance:                  | ≤ 10 mOhm                                |
| Insulation Resistance:               | > 10 <sup>9</sup> Ohm                    |
| Mating Cycles:                       | ≤ 100                                    |
| Ambient Temperature (Operation)*:    | - 40 °C - + 90 °C                        |
| Protection Degree / IP Rating**:     | IP65, IP67, IP68 (1 m / 24 h), IP69K     |
| Design Standard:                     | IEC 61076-2-101                          |
| Pollution Degree:                    | 3 acc. to DIN EN 60664-1 (VDE 0110-1)    |
| Overvoltage Category:                | III acc. to DIN EN 60664-1 (VDE 0110-1)  |
| Contact Base Material:               | CuZn                                     |
| Contact Plating:                     | Cu/Au                                    |
| Contact Bearer Material:             | TPU-GF                                   |
| Contact Bearer Color:                | Orange                                   |
| Flammability Class (Contact Bearer): | UL 94 HB                                 |
| Molded Body Material:                | TPU                                      |
| Molded Body Color:                   | Orange                                   |
| Flammability Class (Molded Body):    | UL 94 HB                                 |
| Attachment Material:                 | CuZn                                     |
| Attachment Plating:                  | Nickel-plated                            |
| Fastening Torque (Attachment):       | M 12x1: (50-60) Ncm, hand-tight          |
| Note:                                | Do not connect or disconnect under load. |

## Cable Data

|                                           |                            |
|-------------------------------------------|----------------------------|
| Cable Number:                             | 268                        |
| Conductor Size:                           | 0.34 mm <sup>2</sup>       |
| Number of Wires:                          | 6                          |
| Minimal Bending Radius (Fixed Inst):      | > 5 x D                    |
| Minimal Bending Radius (Flexible Inst):   | > 10 x D                   |
| Cycles (Bending):                         | > 5 M                      |
| Cycles (Torsion):                         | > 5 M @ ± 360 °/1 m        |
| Welding Resistance:                       | Welding spark resistant    |
| Conductor material:                       | Cu                         |
| Cable Jacket Material:                    | PUR                        |
| Cable Jacket Color:                       | orange similar to RAL 2003 |
| Cable Diameter D:                         | ø 5.5 ± 0.20 mm            |
| Wire Insulation Material:                 | PP                         |
| Insulated Wire Diameter:                  | ø 1.50 ± 0.05 mm           |
| Ambient Temperature (Fixed Installation): | - 50 °C - + 80 °C          |
| Ambient Temperature (Flex Installation):  | - 25 °C - + 80 °C          |

|                                        |                                                                                                                                                             |
|----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ambient Temperature (Drag Chain Inst): | - 25 °C - + 60 °C                                                                                                                                           |
| UL Cable Type:                         | AWM: 20549                                                                                                                                                  |
| Flammability Class (Cable Jacket):     | DIN EN 60332-2-2, VDE 0482-332-2-2, IEC 60332-2-2, CSA FT-2                                                                                                 |
| Cable Characteristics:                 | Free of lacquer wetting disturbing substances; Mainly plasticizer diffusion free; Exclusion of PVC and silicone; Seatwater resistance; Coldness flexibility |

## Technical Data Side 2

|                                              |                                         |
|----------------------------------------------|-----------------------------------------|
| Product Sub Family, Side 2:                  | M12 Standard                            |
| Type of Contact / Gender, Side 2:            | Female                                  |
| Connector Design, Side 2:                    | Angled                                  |
| Attachment Type, Side 2:                     | Coupling Nut                            |
| Number of Pins, Side 2:                      | 8                                       |
| Coding, Side 2:                              | A                                       |
| Contact Resistance, Side 2:                  | ≤ 10 mOhm                               |
| Insulation Resistance, Side 2:               | > 10 <sup>9</sup> Ohm                   |
| Mating Cycles, Side 2:                       | ≤ 100                                   |
| Ambient Temperature (Operation), Side 2*:    | - 40 °C - + 90 °C                       |
| Protection Degree / IP Rating, Side 2**:     | IP65, IP67, IP68 (1 m / 24 h), IP69K    |
| Design Standard, Side 2:                     | IEC 61076-2-101                         |
| Pollution Degree, Side 2:                    | 3 acc. to DIN EN 60664-1 (VDE 0110-1)   |
| Overvoltage Category, Side 2:                | III acc. to DIN EN 60664-1 (VDE 0110-1) |
| Contact Base Material, Side 2:               | CuZn                                    |
| Contact Plating, Side 2:                     | Cu/Au                                   |
| Contact Bearer Material, Side 2:             | TPU                                     |
| Contact Bearer Color, Side 2:                | Black                                   |
| Flammability Class (Contact Bearer), Side 2: | UL 94 HB                                |
| Molded Body Material, Side 2:                | TPU                                     |
| Molded Body Color, Side 2:                   | Orange                                  |
| Flammability Class (Molded Body), Side 2:    | UL 94 HB                                |
| Attachment Material, Side 2:                 | CuZn                                    |
| Attachment Plating, Side 2:                  | Nickel-plated                           |
| O-Ring Material, Side 2:                     | FKM, green                              |
| Fastening Torque (Attachment), Side 2:       | M 12x1: (50-60) Ncm, hand-tight         |

## Safety & Environmental Compliance

|                 |     |
|-----------------|-----|
| RoHS Compliant: | yes |
|-----------------|-----|

## Resistances

|                 |                                                 |
|-----------------|-------------------------------------------------|
| Halogenfree:    | DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1 |
| Oil Resistance: | VDE 0472-803                                    |

## Notes

|                                     |                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| Protection Degree / IP Rating Note: | ** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector. |
| Note Derating:                      | Notice derating                                                                              |

## Variants

| Item # | Item Description        | Cable Length |
|--------|-------------------------|--------------|
| 46512  | RST 8-RKWT 8-6-268/2 M  | 2 m          |
| 43874  | RST 8-RKWT 8-6-268/5 M  | 5 m          |
| 46513  | RST 8-RKWT 8-6-268/10 M | 10 m         |

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