



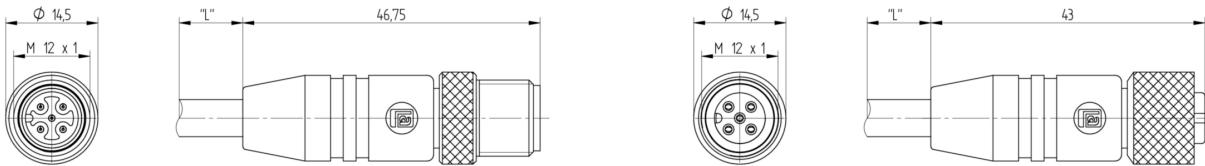
**Product:** [RSTS 5-RKTS 5-298](#)

Sensor/Actuator Double-Ended Cordset: Male straight A-coded orange 5-pin M12 Standard connector to female straight A-coded orange 5-pin M12 Standard connector, shielded, 50 V AC / 60 V DC, 4 A; PUR black cable, 5-wires, 0.34 mm<sup>2</sup>

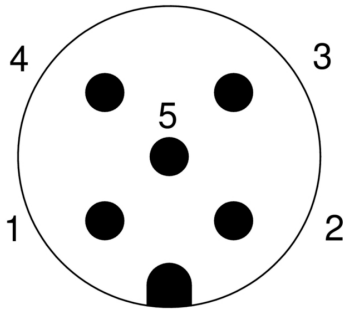
**Product Description**

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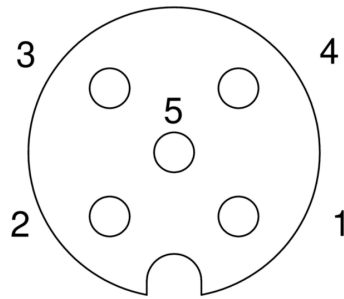
**Technical Drawing**



**Male**



**Female**



**Technical Specifications**

Face View Side 1

| Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 |
|-------|-------|-------|-------|-------|
| brown | white | blue  | black | grey  |

Face View Side 2

| Pin 1 | Pin 2 | Pin 3 | Pin 4 | Pin 5 |
|-------|-------|-------|-------|-------|
| brown | white | blue  | black | grey  |

## Product Description

|                        |                              |
|------------------------|------------------------------|
| Product Family:        | Sensor / Actuator Connectors |
| Brand:                 | Lumberg Automation           |
| Connector Type:        | Cordset, double ended        |
| Shielding:             | Shielded                     |
| Rated Voltage:         | 60 V                         |
| Rated Impulse Voltage: | 1.5 kV                       |
| Operating Voltage:     | 50 V AC / 60 V DC            |
| Rated Current:         | 4 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:                      | 5  |
| 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, 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:               | CuSn                                     |
| Contact Plating:                     | Cu/Au                                    |
| Contact Bearer Material:             | PA                                       |
| Contact Bearer Color:                | Black                                    |
| Flammability Class (Contact Bearer): | UL 94 V-0                                |
| Molded Body Material:                | TPU                                      |
| Molded Body Color:                   | Orange                                   |
| Flammability Class (Molded Body):    | UL 94 HB                                 |
| Attachment Material:                 | CuZn                                     |
| Attachment Plating:                  | Nickel-plated                            |
| Shielding Material:                  | CuZn, tin-plated                         |
| Fastening Torque (Attachment):       | M 12x1: (50-60) Ncm, hand-tight          |
| Note:                                | Do not connect or disconnect under load. |

## Cable Data

|   |                   |
|---|-------------------|
| Cable Number:                             | 298               |
| Number of Wires:                          | 5                 |
| Minimal Bending Radius (Fixed Inst):      | > 5 x D           |
| Minimal Bending Radius (Flexible Inst):   | > 10 x D          |
| Cycles (Bending):                         | > 2 M             |
| Conductor material:                       | Cu                |
| Cable Jacket Material:                    | PUR               |
| Cable Jacket Color:                       | black             |
| Cable Diameter D:                         | ø 5.85 ± 0.15 mm  |
| Wire Insulation Material:                 | PP                |
| Insulated Wire Diameter:                  | ø 1.30 mm         |
| Overall Shield (Cable):                   | Mesh wire         |
| 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:             | Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Exclusion of PVC and silicone; LABS-free of lacquer wetting disturbing substances; Coldness flexibility |

## Technical Data Side 2

|  |   |
|--|---|
| Product Sub Family, Side 2:                  | M12 Standard                            |
| Type of Contact / Gender, Side 2:            | Female                                  |
| Connector Design, Side 2:                    | Straight                                |
| Attachment Type, Side 2:                     | Coupling Nut                            |
| Number of Pins, Side 2:                      | 5                                       |
| 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, 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:               | CuSn                                    |
| Contact Plating, Side 2:                     | Cu/Au                                   |
| Contact Bearer Material, Side 2:             | PA                                      |
| Contact Bearer Color, Side 2:                | Black                                   |
| Flammability Class (Contact Bearer), Side 2: | UL 94 V-0                               |
| 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                           |
| Shielding Material, Side 2:                  | CuZn, tin-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 |
|--------------|---|

## 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 |
|-----------|--------------------------|--------------|
| 62202     | RSTS 5-RKTS 5-298/0,3 M  | 0.3 m        |
| 57380     | RSTS 5-RKTS 5-298/0,6 M  | 0.6 m        |
| 64622     | RSTS 5-RKTS 5-298/0,25 M | 0.25 m       |
| 58828     | RSTS 5-RKTS 5-298/1 M    | 1 m          |
| 934636342 | RSTS 5-RKTS 5-298/1,5 M  | 1.5 m        |
| 61629     | RSTS 5-RKTS 5-298/2 M    | 2 m          |
| 12395     | RSTS 5-RKTS 5-298/2,5 M  | 2.5 m        |
| 58827     | RSTS 5-RKTS 5-298/3 M    | 3 m          |
| 60389     | RSTS 5-RKTS 5-298/4 M    | 4 m          |
| 61630     | RSTS 5-RKTS 5-298/5 M    | 5 m          |
| 108237    | RSTS 5-RKTS 5-298/7,5 M  | 7.5 m        |
| 2667      | RSTS 5-RKTS 5-298/8 M    | 8 m          |
| 5276      | RSTS 5-RKTS 5-298/9 M    | 9 m          |

|       |                        |      |
|-------|------------------------|------|
| 49237 | RSTS 5-RKTS 5-298/10 M | 10 m |
| 8093  | RSTS 5-RKTS 5-298/15 M | 15 m |
| 19362 | RSTS 5-RKTS 5-298/20 M | 20 m |
| 1223  | RSTS 5-RKTS 5-298/50 M | 50 m |

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