



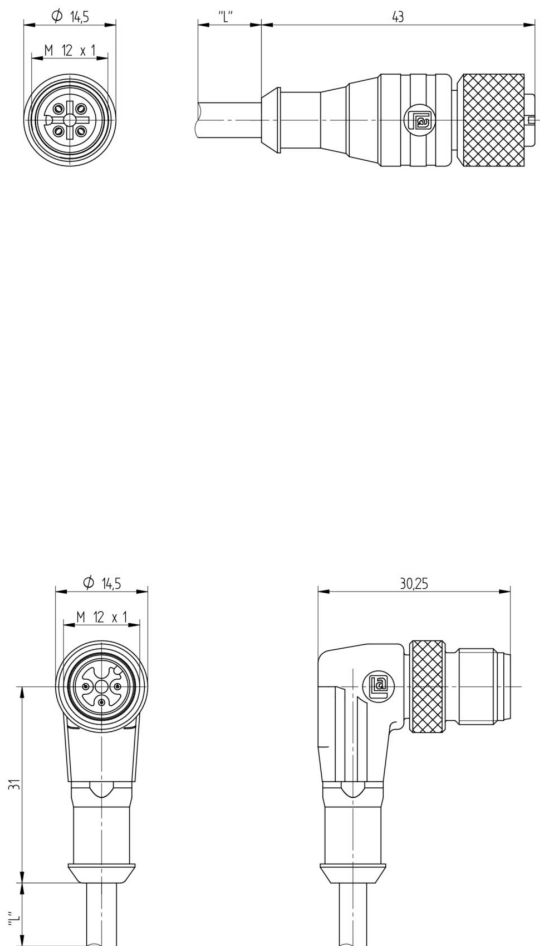
**Product:** [RSWT 3-RKT 4-3-659](#)

Sensor / Actuator Connectors: Cordset, double ended, M12 Standard, Angled Male, 3-pole to a, M12 Standard, Straight Female, 3-pole; with Grey PVC 22 AWG cable

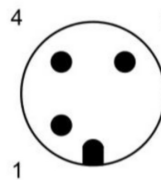
### Product Description

Sensor / Actuator Connectors: Cordset, double ended, M12 Standard, Angled Male, 3-pole to a, M12 Standard, Straight Female, 3-pole, 250 V | 4 A; with Grey PVC 22 AWG cable

### Technical Drawing



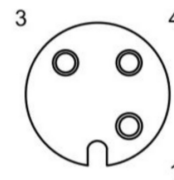
Face View  
M12 Male



Color Code  
1 = BN

3 = BU  
4 = BK

Face View  
M12 Female



Color Code  
1 = BN

3 = BU  
4 = BK

### Technical Specifications

#### Product Description

|                        |                              |
|------------------------|------------------------------|
| Product Family:        | Sensor / Actuator Connectors |
| Brand:                 | Lumberg Automation           |
| Connector Type:        | Cordset, double ended        |
| Shielding Type:        | Unshielded                   |
| Voltage Rating:        | 250 V                        |
| Rated Impulse Voltage: | 2.5 kV                       |
| Operating Voltage:     | 230 V AC/DC                  |
| Current Rating:        | 4 A                          |

Technical Data Side 1

|                                      |                                        |
|--------------------------------------|----------------------------------------|
| Side 1 Product Sub Family:           | M12 Standard                           |
| Side 1 Type of Contact/Gender:       | Male                                   |
| Connector Design:                    | Angled                                 |
| Attachment Type:                     | Coupling Screw                         |
| Number of Pins:                      | 3                                      |
| Coding, Side 1:                      | 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                             |
| Design Standard:                     | IEC 61076-2-101                        |
| Pollution Degree:                    | 3 acc. to DIN EN 60664-1 (VDE 0110-1)  |
| Overvoltage Category:                | II acc. to DIN EN 60664-1 (VDE 0110-1) |
| Contact Base Material:               | CuSn                                   |
| Side 1 Contact Plating:              | Cu/Au                                  |
| Contact Bearer Material:             | TPU                                    |
| Contact Bearer Color:                | Orange                                 |
| Flammability Class (Contact Bearer): | UL 94 HB                               |
| Molded Body Material:                | TPU                                    |
| Molded Body Color:                   | Grey Transluscent                      |
| Flammability Class (Molded Body):    | UL 94 HB                               |
| Attachment Material:                 | CuZn, Nickel-plated, External thread   |
| Fastening Torque (Attachment):       | M 12x1: (50-60) Ncm, hand-tight        |

Cable Data

|                                           |                                                                                                    |
|-------------------------------------------|----------------------------------------------------------------------------------------------------|
| Cable Number:                             | 659                                                                                                |
| Conductor Size:                           | 22 AWG                                                                                             |
| Number of Wires:                          | 3                                                                                                  |
| Minimal Bending Radius (Fixed Inst):      | > 7 x D                                                                                            |
| Minimal Bending Radius (Flexible Inst):   | > 10 x D                                                                                           |
| Cycles (Bending):                         | > 1 M                                                                                              |
| Conductor Material:                       | Cu [Bare Copper]                                                                                   |
| Cable Jacket Material:                    | PVC                                                                                                |
| Cable Jacket Color:                       | Grey                                                                                               |
| Cable Diameter D:                         | Ø 4.82 mm                                                                                          |
| Wire Insulation Material:                 | PVC-SR                                                                                             |
| Insulated Wire Diameter:                  | Ø 1.25 mm                                                                                          |
| Ambient Temperature (Fixed Installation): | - 40 to 105°C                                                                                      |
| Ambient Temperature (Flex Installation):  | - 15 to 105°C                                                                                      |
| Ambient Temperature (Drag Chain Inst):    | - 15 to 105°C                                                                                      |
| UL Cable Type:                            | AWM 2661, C(RU) AWM I/II A/B                                                                       |
| Flammability Class (Cable Jacket):        | UL VW-1, FT1                                                                                       |
| Cable Characteristics:                    | Mechanical Resistances, Abrasion, Impact, Weathering; Chemical Resistances to Oils, Acids, Alkalis |

Technical Data Side 2

|                            |              |
|----------------------------|--------------|
| Side 2 Product Sub Family: | M12 Standard |
|----------------------------|--------------|

|                                              |                                          |
|----------------------------------------------|------------------------------------------|
| Side 2 Type of Contact/Gender:               | Female                                   |
| Connector Design, Side 2:                    | Straight                                 |
| Attachment Type, Side 2:                     | Coupling Thread                          |
| Number of Pins, Side 2:                      | 3                                        |
| Coding, Side 2:                              | A                                        |
| Contact Resistance, Side 2:                  | ≤ 10 mOhm                                |
| Insulation Resistance, Side 2:               | > 10^9 Ohm                               |
| Mating Cycles, Side 2:                       | ≤ 100                                    |
| Ambient Temperature (Operation), Side 2*:    | - 40 °C - + 90 °C                        |
| Protection Degree / IP Rating, Side 2**:     | IP65, IP67                               |
| 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:                | II 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:             | TPU                                      |
| Contact Bearer Color, Side 2:                | Orange                                   |
| Flammability Class (Contact Bearer), Side 2: | UL 94 HB                                 |
| Molded Body Material, Side 2:                | TPU                                      |
| Molded Body Color, Side 2:                   | Grey Transluscent                        |
| Flammability Class (Molded Body), Side 2:    | UL 94 HB                                 |
| Attachment Material, Side 2:                 | CuZn, Nickel-plated, Internal thread     |
| O-Ring Material, Side 2:                     | FKM, green or black                      |
| Fastening Torque (Attachment), Side 2:       | M 12x1: (50-60) Ncm, hand-tight          |
| Note, Side 2:                                | Do not connect or disconnect under load. |

### Approvals

|          |         |
|----------|---------|
| UL-File: | E315587 |
| UL:      | Yes     |
| VDE:     | Yes     |

### Safety & Environmental Compliance

|                 |     |
|-----------------|-----|
| RoHS Compliant: | Yes |
|-----------------|-----|

### Resistances

|                 |                                  |
|-----------------|----------------------------------|
| Oil Resistance: | Good chemical and oil resistance |
|-----------------|----------------------------------|

### Notes

|                                     |                                                                                                       |
|-------------------------------------|-------------------------------------------------------------------------------------------------------|
| Protection Degree / IP Rating Note: | Protection Degree and IP Rating per test standard IEC 60529 using a Lumberg Automation mating product |
| Note Derating:                      | Notice derating                                                                                       |

#### Variants

| Item #    | Item Description         | Cable Length |
|-----------|--------------------------|--------------|
| 600006341 | RSWT 3-RKT 4-3-659/0.3M  | 0.3 m        |
| 600006342 | RSWT 3-RKT 4-3-659/0.6M  | 0.6 m        |
| 600006343 | RSWT 3-RKT 4-3-659/1M    | 1 m          |
| 600006344 | RSWT 3-RKT 4-3-659/2M    | 2 m          |
| 600006345 | RSWT 3-RKT 4-3-659/5M    | 5 m          |
| 600006346 | RSWT 3-RKT 4-3-659/10M   | 10 m         |
| 600006347 | RSWT 3-RKWT 4-3-659/0.3M | 0.3 m        |
| 600006348 | RSWT 3-RKWT 4-3-659/0.6M | 0.6 m        |
| 600006349 | RSWT 3-RKWT 4-3-659/1M   | 1 m          |
| 600006350 | RSWT 3-RKWT 4-3-659/2M   | 2 m          |
| 600006351 | RSWT 3-RKWT 4-3-659/5M   | 5 m          |
| 600006352 | RSWT 3-RKWT 4-3-659/10M  | 10 m         |

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