



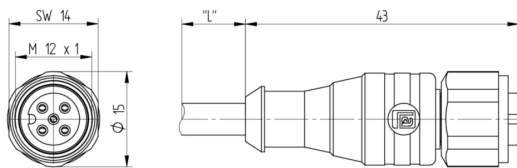
**Product:** [WRKT 5-522](#)

M12 F&B (Wash-Down) Sensor/Actuator Single-Ended Cordset: Female, straight, 5-pin, A-coded, white body, 50 V AC / 60 V DC, 4 A; TPE orange cable, 5-wires, 0.25 mm<sup>2</sup>

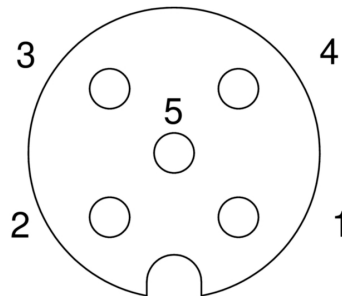
**Product Description**

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**Technical Drawing**



**Female**



**Technical Specifications**

**Face View**

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

**Technical Data**

|                           |                              |
|---------------------------|------------------------------|
| Product Family:           | Sensor / Actuator Connectors |
| Product Sub Family:       | M12 F&B (Wash-Down)          |
| Brand:                    | Lumberg Automation           |
| Connector Type:           | Cordset, single ended        |
| Type of Contact / Gender: | Female                       |
| Connector Design:         | Straight                     |
| Number of Pins:           | 5                            |
| Coding:                   | A                            |
| Shielding:                | Unshielded                   |
| Attachment Type:          | Coupling Nut                 |
| Rated Voltage:            | 60 V                         |
| Rated Voltage (UL):       | 30 V AC/DC                   |
| Rated Impulse Voltage:    | 1.5 kV                       |
| Operating Voltage:        | 50 V AC / 60 V DC            |
| Rated Current*:           | 4 A                          |

|                                   |   |
|-----------------------------------|---|
| Rated Current (UL)*:              | 4 A                                     |
| Contact Resistance:               | ≤ 10 mOhm                               |
| Insulation Resistance:            | > 10 <sup>9</sup> Ohm                   |
| Mating Cycles:                    | ≤ 100                                   |
| Ambient Temperature (Operation)*: | - 40 °C - + 105 °C                      |
| Operating Temperature (UL):       | max. + 65 °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) |

## Materials

|                                      |                 |
|--------------------------------------|-----------------|
| Contact Base Material:               | CuSn            |
| Contact Plating:                     | Cu/Au           |
| Contact Bearer Material:             | PP-GF           |
| Contact Bearer Color:                | White           |
| Flammability Class (Contact Bearer): | UL 94 HB        |
| Molded Body Material:                | PP-GF           |
| Molded Body Color:                   | White           |
| Flammability Class (Molded Body):    | UL 94 HB        |
| Attachment Material:                 | Stainless Steel |
| O-Ring Material:                     | EPDM, black     |

## Additional Technical Data

|                                |                                 |
|--------------------------------|---------------------------------|
| Fastening Torque (Attachment): | M 12x1: (50-60) Ncm, hand-tight |
|--------------------------------|---------------------------------|

## Cable Data

|   |  |
|---|--|
| Cable Number:                             | 522  |
| Conductor Size:                           | 0.25 mm <sup>2</sup>   |
| 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:                    | TPE-V-compound, flame retardent  |
| Cable Jacket Color:                       | orange   |
| Cable Diameter D:                         | ø 5.0 ± 0.20 mm  |
| Wire Insulation Material:                 | PP   |
| Insulated Wire Diameter:                  | ø 1.25 mm  |
| Ambient Temperature (Fixed Installation): | - 40 °C - + 90 °C  |
| Ambient Temperature (Flex Installation):  | - 25 °C - + 90 °C  |
| Ambient Temperature (Drag Chain Inst):    | - 25 °C - + 60 °C  |
| UL Cable Type:                            | AWM: 21484   |
| Flammability Class (Cable Jacket):        | UL horizontal flame test, flame-retardant  |
| Cable Characteristics:                    | Free of silicone; Free of FCKW; Free of cadmium and lead; Microbe and hydrolysis resistant |

## Approvals

|          |                |
|----------|----------------|
| UL-File: | E315587        |
| UL:      | UL 2238; cURus |

## Safety & Environmental Compliance

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

## Resistances

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

## Notes

|                                     |  |
|-------------------------------------|--|
| Note Derating:                      | Notice derating  |
| Protection Degree / IP Rating Note: | ** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector. |
| Note:                               | Do not connect or disconnect under load.   |

**Variants**

| Item #    | Item Description | Cable Length |
|-----------|------------------|--------------|
| 934733013 | WRKT 5-522/2 M   | 2 m          |
| 934733014 | WRKT 5-522/5 M   | 5 m          |
| 934733015 | WRKT 5-522/10 M  | 10 m         |
| 934733016 | WRKT 5-522/15 M  | 15 m         |
| 934733017 | WRKT 5-522/20 M  | 20 m         |
| 934733018 | WRKT 5-522/25 M  | 25 m         |
| 4249      | WRKT 5-522/30 M  | 30 m         |
| 4675      | WRKT 5-522/40 M  | 40 m         |

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