



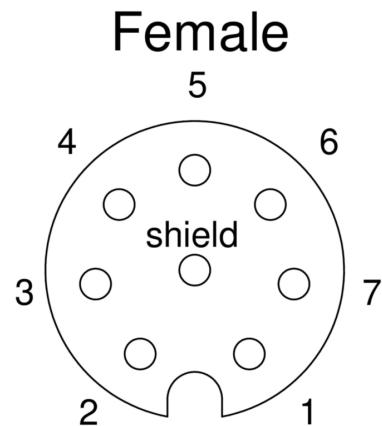
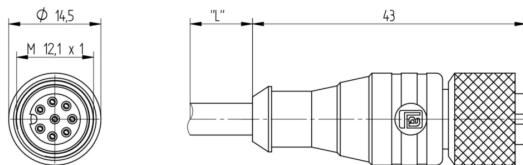
## Product: [RKT 8-282](#)

M12 Standard Sensor/Actuator Single-Ended Cordset: Female, straight, 8-pin, A-coded, translucent body, 30 V AC/DC, 2 A; PUR black cable, 7-wires, 0.25 mm<sup>2</sup>

### Product Description

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### Technical Drawing



### Technical Specifications

#### Face View

| Pin 1 | Pin 2 | Pin 3 | Pin 4  | Pin 5 | Pin 6 | Pin 7 | Pin 8  |
|-------|-------|-------|--------|-------|-------|-------|--------|
| white | brown | green | yellow | grey  | pink  | blue  | shield |

#### Technical Data

|                           |                              |  |
|---------------------------|------------------------------|--|
| Product Family:           | Sensor / Actuator Connectors |  |
| Product Sub Family:       | M12 Standard                 |  |
| Brand:                    | Lumberg Automation           |  |
| Connector Type:           | Cordset, single ended        |  |
| Type of Contact / Gender: | Female                       |  |
| Connector Design:         | Straight                     |  |
| Number of Pins:           | 8                            |  |
| Coding:                   | A                            |  |
| Shielding:                | Unshielded                   |  |
| Attachment Type:          | Coupling Nut                 |  |
| Rated Voltage:            | 30 V                         |  |
| Rated Impulse Voltage:    | 0.8 kV                       |  |
| Operating Voltage:        | 30 V AC/DC                   |  |
| Rated Current*:           | 2 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) |

## Materials

|                                      |               |
|--------------------------------------|---------------|
| Contact Base Material:               | CuZn          |
| 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:                   | Translucent   |
| Flammability Class (Molded Body):    | UL 94 HB      |
| Attachment Material:                 | CuZn          |
| Attachment Plating:                  | Nickel-plated |
| O-Ring Material:                     | FKM, green    |

## Additional Technical Data

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

## Cable Data

|   |  |
|---|--|
| Cable Number:                             | 282  |
| Conductor Size:                           | 0.25 mm <sup>2</sup>   |
| Number of Wires:                          | 7  |
| 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  |
| Conductor material:                       | Cu   |
| Cable Jacket Material:                    | PUR  |
| Cable Jacket Color:                       | black  |
| Cable Diameter D:                         | ø 6.0 ± 0.20 mm  |
| Wire Insulation Material:                 | PP   |
| Insulated Wire Diameter:                  | ø 1.17 mm  |
| Foil shield:                              | Al-PT  |
| 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; Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Exclusion of PVC and silicone; Coldness flexibility |

## Safety & Environmental Compliance

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

## Resistances

|              |   |
|--------------|---|
| Halogenfree: | DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1 |
|--------------|---|

## 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 | Rated Current |
|-----------|------------------|--------------|---------------|
| 415       | RKT 8-282/45 M   | 45 m         | 2 A           |
| 1374      | RKT 8-282/25 M   | 25 m         | 2 A           |
| 2454      | RKT 8-282/3 M    | 3 m          | 2 A           |
| 46772     | RKT 8-282/5 M    | 5 m          | 2 A           |
| 47077     | RKT 8-282/2 M    | 2 m          | 2 A           |
| 55222     | RKT 8-282/15 M   | 15 m         | 2 A           |
| 60548     | RKT 8-282/10 M   | 10 m         | 2 A           |
| 76612     | RKT 8-282/20 M   | 20 m         | 2 A           |
| 78617     | RKT 8-282/0,5 M  | 0.5 m        | 2 A           |
| 89741     | RKT 8-282/30 M   | 30 m         | 2 A           |
| 934637293 | RKT 8-282/8 M    | 8 m          | 2 A           |
| 14483     | RKT 8-282/1 M    | 1 m          | 2 A           |
| 20404     | RKT 8-282/7,5 M  | 7.5 m        | 2 A           |

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