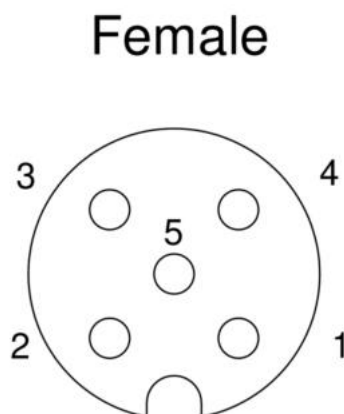
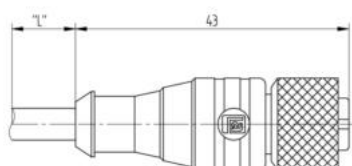


**Product:** [RKT 5-270](#) 

M12 Standard Sensor/Actuator Single-Ended Cordset: Female, straight, 5-pin, A-coded, translucent body, 50 V AC / 60 V DC, 4 A; PUR grey cable, 5-wires, 0.50 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        |
|-------|-------|-------|-------|--------------|
| brown | white | blue  | black | green-yellow |

**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:           | 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 - + 90 °C                                           |
| Operating Temperature (UL):       | max. + 50 °C                                                |
| Protection Degree / IP Rating**:  | IP65, IP67, IP68 (1 m / 24 h), IP69K                        |
| Design Standard:                  | Pin assignment deviating from IEC 61076-2-101 and IEC 61140 |
| 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:             | 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:                             | 270                                                                                                                                                                            |
| Conductor Size:                           | 0.5 mm²                                                                                                                                                                        |
| 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:                       | grey matt similarly RAL 7040                                                                                                                                                   |
| Cable Diameter D:                         | ø 5.40 ± 0.20 mm                                                                                                                                                               |
| Wire Insulation Material:                 | PP                                                                                                                                                                             |
| Insulated Wire Diameter:                  | ø 1.50 ± 0.05 mm                                                                                                                                                               |
| Ambient Temperature (Fixed Installation): | - 50 °C - + 90 °C (UL: + 80 °C)                                                                                                                                                |
| Ambient Temperature (Flex Installation):  | - 25 °C - + 90 °C (UL: + 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; Free of lacquer wetting disturbing substances; Coldness flexibility |

Approvals

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

Safety & Environmental Compliance

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

Resistances

|                 |                                                 |
|-----------------|-------------------------------------------------|
| Halogenfree:    | DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1 |
| Oil Resistance: | Good chemical and oil resistance                |

|                                     |                                                                                              |
|-------------------------------------|----------------------------------------------------------------------------------------------|
| 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 |
|--------|------------------|--------------|---------------|
| 5927   | RKT 5-270/10 M   | 10 m         | 4 A           |
| 8360   | RKT 5-270/5 M    | 5 m          | 4 A           |

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