



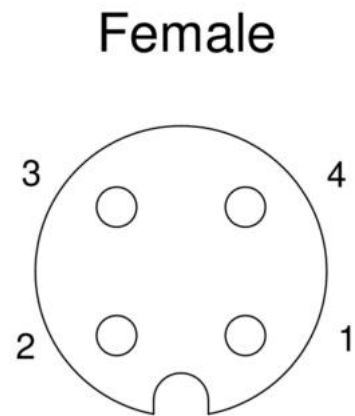
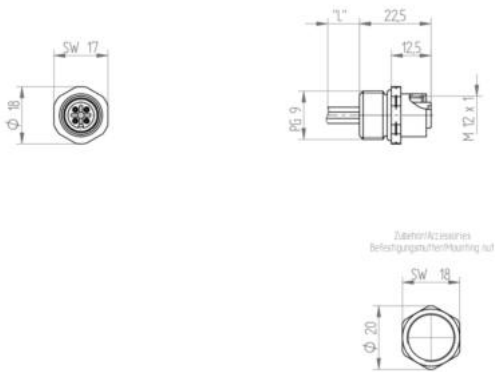
**Product:** [RKF 4 M](#)

M12 Standard Sensor/Actuator Receptacle Connector: Female, front mount, M12 - mating side, stranded wires - connecting side, 4-pin, A-coded, unshielded, metallic grey housing, 230 V AC/DC, 4 A

### Product Description

M12 Standard Sensor/Actuator Receptacle Connector: Female, front mount, M12 - mating side, stranded wires - connecting side, 4-pin, A-coded, unshielded, metallic grey housing, 230 V AC/DC, 4 A

### Technical Drawing



### Technical Specifications

#### Face View

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

#### Technical Data

|                           |                              |
|---------------------------|------------------------------|
| Product Family:           | Sensor / Actuator Connectors |
| Product Sub Family:       | M12 Standard                 |
| Mating Side:              | M12                          |
| Connecting Side:          | Stranded Wires               |
| Brand:                    | Lumberg Automation           |
| Connector Type:           | Receptacle                   |
| Type of Contact / Gender: | Female                       |
| Connector Design:         | Front Mount                  |
| Number of Pins:           | 4                            |
| Coding:                   | A                            |
| Attachment Type:          | Screw-Locking                |
| Rated Voltage:            | 250 V                        |
| Rated Voltage (UL):       | 300 V AC/DC                  |
| Rated Impulse Voltage:    | 2.5 kV                       |
| Operating Voltage:        | 230 V AC/DC                  |
| Rated Current*:           | 4 A                          |

|                                   |                                        |
|-----------------------------------|----------------------------------------|
| Rated Current (UL)*:              | 4 A                                    |
| Contact Resistance:               | ≤ 10 mOhm                              |
| Insulation Resistance:            | > 10 <sup>9</sup> Ohm                  |
| Mating Cycles:                    | ≤ 100                                  |
| Type of Connection:               | Crimp                                  |
| Thread Size:                      | PG9                                    |
| Ambient Temperature (Operation)*: | - 25 °C - + 85 °C                      |
| Operating Temperature (UL):       | max. + 50 °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)  |
| Clearance / Creepage Distance:    | DIN EN 60664-1 (2008/01); VDE 0110-1   |
| Overvoltage Category:             | II 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:                | Black         |
| Flammability Class (Contact Bearer): | UL 94 HB      |
| Potted:                              | Yes           |
| Housing Material:                    | CuZn          |
| Housing Plating:                     | Nickel-plated |
| Housing Color:                       | Silver        |
| Attachment Material:                 | CuZn          |
| Attachment Plating:                  | Nickel-plated |
| O-Ring Material:                     | FKM           |

Additional Technical Data

|                                  |                                 |
|----------------------------------|---------------------------------|
| Fastening Torque (Attachment):   | M 12x1: (50-60) Ncm, hand-tight |
| Accessories to Order Separately: | 000-011-645 Mounting Nut PG9    |

Cable Data

|                                           |                                                                    |
|-------------------------------------------|--------------------------------------------------------------------|
| Cable Number:                             | 908 43                                                             |
| Conductor Size:                           | 0.355 mm²                                                          |
| Number of Wires:                          | 4                                                                  |
| Conductor material:                       | Cu                                                                 |
| Wire Insulation Material:                 | PVC                                                                |
| Insulated Wire Diameter:                  | ø 1.55 mm ± 0.1 mm                                                 |
| Ambient Temperature (Fixed Installation): | - 40 °C - + 90 °C                                                  |
| Ambient Temperature (Flex Installation):  | - 20 °C - + 90 °C                                                  |
| UL Cable Type:                            | AWM: 1007                                                          |
| Flammability Class (Cable Jacket):        | DIN EN 60332-1-2, VDE 0482-332-1-2, IEC 60332-1-2, UL-VW1, CSA-FT1 |
| Core Colors:                              | blue,brown, white, black                                           |

Approvals

|          |         |
|----------|---------|
| UL-File: | E315587 |
| UL:      | cURus   |

Safety & Environmental Compliance

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

Notes

|                                     |                                                                                                                                                                                                               |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note Derating:                      | * Notice derating                                                                                                                                                                                             |
| Protection Degree / IP Rating Note: | * only if mounted and locked in combination with Hirschmann / Lumberg connector. On the installation side tightness has to be assured by taking proper measures.                                              |
| Note:                               | The receptacle connector is constructively intended for usage in IP67-products. To realise this protection class, the estimated location has to be designed accordingly. Further details see IEC 61076-2-101. |

**Variants**

| Item # | Item Description | Cable Length |
|--------|------------------|--------------|
| 24753  | RKF 4/0,2 M      | 0.2 m        |
| 11267  | RKF 4/0,5 M      | 0.5 m        |
| 81134  | RKF 4/1 M        | 1 m          |
| 26961  | RKF 4/1,5 M      | 1.5 m        |

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