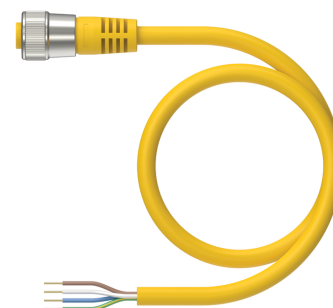
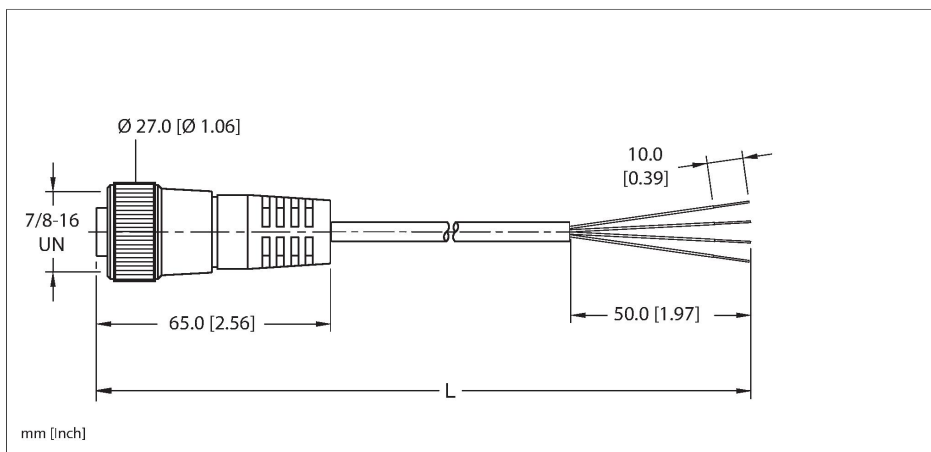


# RKM 461-31M/S3059

## Actuator and Sensor Cable – Connection Cable



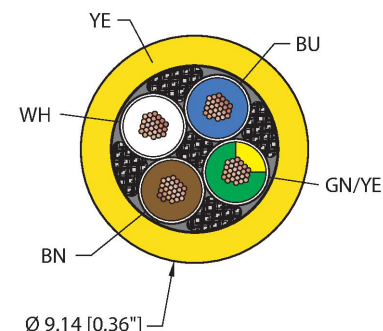
### Technische Daten

|                                 |                                                          |
|---------------------------------|----------------------------------------------------------|
| Type                            | RKM 461-31M/S3059                                        |
| ID                              | U-84075                                                  |
| Connector A                     | Female, 7/8"-16 UN, Straight                             |
| Number of contacts              | 4                                                        |
| Contacts                        | Brass, CuZn, Gold-plated                                 |
| Contact carriers                | Plastic, TPU, Yellow                                     |
| Connector body                  | Plastic, TPU, Yellow                                     |
| Coupling nut                    | Brass, CuZn, Nickel-plated                               |
| Tightening torque               | 2 Nm                                                     |
| Mechanical life                 | > 100 Mating cycles                                      |
| Pollution degree                | 3                                                        |
| Protection class (When coupled) | IP67, IP68, IP69, IP69K                                  |
|                                 | NEMA: 1, 3, 4, 6P, 12                                    |
| Cable data                      |                                                          |
| Cable ID                        | RF51719                                                  |
| Total number of conductors      | 4                                                        |
| Cable diameter                  | Ø 9.14 mm                                                |
| Length (L)                      | 31 m, (+50mm or 4% of length/-0.0, Whichever is greater) |
| Cable jacket                    | TPE, Yellow                                              |
| Conductor diameter              | 0.105 "                                                  |
| Conductor material              | BC (bare copper)                                         |
| Conductor insulation material   | PVC/Nylon (Nylon overcoat)                               |
| Conductor size                  | 4 x 16 AWG [Similar to 1.50 mm²]                         |
| Number of strands x O.D.        | 65 x 34 AWG                                              |

### Features

- UL US
- SP US
- CE
- UK CA
- RoHS compliant
- IP67/IP68  
IP69/IP69K  
DEGREE OF PROTECTION
- 7/8" Female, Straight, 4-pin
- Power Tray/Exposed Run/Direct Burial Cable
- Yellow TPE jacket, 4X16 AWG
- Sunlight Resistant
- 40 Cold Bend Rating
- Oil Resistant
- Flame Ratings: UL 1685 FT4, UL 1061, CSA FT1, CSA FT4

### Cable cross section

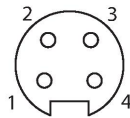


### Contact assignment

Technische Daten

|                                                                                                                                                                                      |                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Conductor colors                                                                                                                                                                     | BN, WH, BU, GNYE                                     |
| Electrical properties at +20 °C                                                                                                                                                      |                                                      |
| Rated voltage                                                                                                                                                                        | 600 V                                                |
| Current                                                                                                                                                                              | 10 A                                                 |
| Mechanical and chemical properties                                                                                                                                                   |                                                      |
| Bending radius (static)                                                                                                                                                              | ≥ 5 x Ø                                              |
| Bending radius (dynamic)                                                                                                                                                             | ≥ 10 x Ø                                             |
| UL cold bend rating                                                                                                                                                                  | -40 °C                                               |
| Ambient temperature range (static)                                                                                                                                                   | -40...+90 °C                                         |
| Ambient temperature range (dynamic)                                                                                                                                                  | 5...+90 °C                                           |
| Temperature range (installation)                                                                                                                                                     | -10...+90 °C                                         |
| Approval                                                                                                                                                                             |                                                      |
| Approvals                                                                                                                                                                            | UL 2238<br>CSA C22.2 No. 182.3<br>CE<br>UKCA<br>RoHS |
| Note                                                                                                                                                                                 |                                                      |
| - Flex ratings may be reduced if used in extreme temperatures, exposure to certain chemicals, operating above the rated cycle speed, or operating below the rated cable bend radius. |                                                      |
| - We reserve the right to make technical alterations without prior notice.                                                                                                           |                                                      |

Connector A



Circuit Diagram

