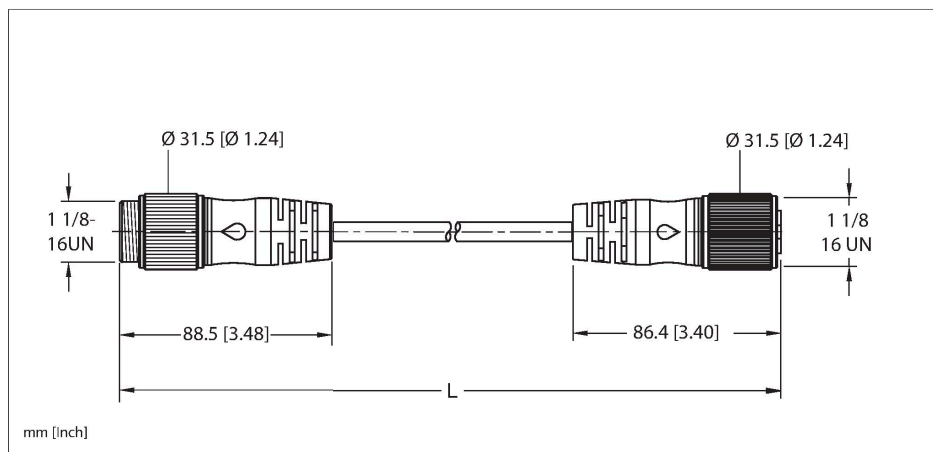


# RSM RKM 190-4.5M

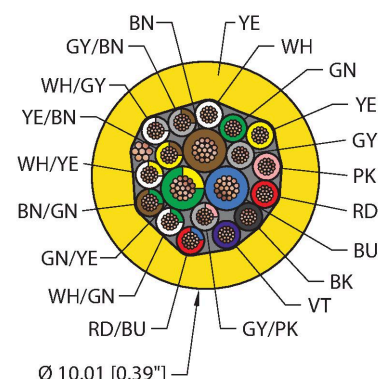
## Actuator and Sensor Cable – Extension Cable



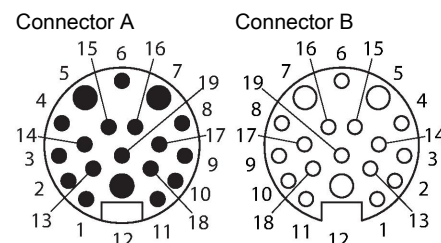
### Features

- 1-1/8" Male, Straight, 19-pin
- 1-1/8" Female, Straight, 19-pin
- Instrumentation Tray Cable
- Yellow PVC jacket, shielded, 3X18+16X22 AWG
- Sunlight Resistant
- -40 Cold Bend Rating
- Oil Resistant
- Flame Ratings: UL 1685 FT4, UL1061, CSA FT4

### Cable cross section



### Contact assignment



### Technische Daten

|                                 |                                |
|---------------------------------|--------------------------------|
| Type                            | RSM RKM 190-4.5M               |
| ID                              | U-97377                        |
| Connector A                     | Male, 1 1/8"-16 UN, Straight   |
| Number of contacts              | 19                             |
| Contacts                        | Brass, CuZn, Gold-plated       |
| Contact carriers                | Plastic, TPU, Yellow           |
| Connector body                  | Plastic, TPU, Yellow           |
| Coupling nut                    | Brass, CuZn, Nickel-plated     |
| Tightening torque               | 3 Nm                           |
| Mechanical life                 | > 100 Mating cycles            |
| Pollution degree                | 3                              |
| Protection class (When coupled) | IP67, IP68, IP69, IP69K        |
|                                 | NEMA: 1, 3, 4, 6P, 12          |
| Connector B                     | Female, 1 1/8"-16 UN, Straight |
| Number of contacts              | 19                             |
| Contacts                        | Brass, CuZn, Gold-plated       |
| Contact carriers                | Plastic, TPU, Yellow           |
| Connector body                  | Plastic, TPU, Yellow           |
| Coupling nut                    | Brass, CuZn, Nickel-plated     |
| Protection class (When coupled) | IP67, IP68, IP69, IP69K        |
|                                 | NEMA: 1, 3, 4, 6P, 12          |
| Cable data                      |                                |
| Cable ID                        | RF50620                        |
| Total number of conductors      | 19                             |

## Technische Daten

|                               |                                                                                                         |
|-------------------------------|---------------------------------------------------------------------------------------------------------|
| Cable diameter                | Ø 10.01 mm                                                                                              |
| Length (L)                    | 4.5 m, (+50mm or 4% of length/-0.0, Whichever is greater)                                               |
| Cable jacket                  | PVC, Yellow                                                                                             |
| Shielding                     | Aluminum/polyester (IN), 20 AWG, TC (Tinned Copper)                                                     |
| Conductor diameter            | 0.076 "                                                                                                 |
| Conductor material            | TC (tinned copper)                                                                                      |
| Conductor insulation material | PVC                                                                                                     |
| Conductor size                | 3 x 18 AWG [Similar to 0.75 mm²]                                                                        |
| Number of strands x O.D.      | 19 x 0.0092 "                                                                                           |
| Conductor diameter            | 0.048                                                                                                   |
| Conductor insulation material | SR-PVC                                                                                                  |
| Conductor size                | 16x 22 AWG [Similar to 0.34 mm²]                                                                        |
| Number of strands x O.D. (2)  | 19 x0.0058 mm                                                                                           |
| Conductor colors              | VT, RD, GY, RD/BU, BU, GN, BN, WH/ GN, WH/YE, WH/GY, BK, GN/YE, YE/ BN, BN/GN, WH, YE, PK, GY/BN, GY/PK |

### Electrical properties at +20 °C

|               |                                                  |
|---------------|--------------------------------------------------|
| Rated voltage | 300 V                                            |
| Current       | 4 A (Contacts 5,7,12) / 2 A (All other contacts) |

### Mechanical and chemical properties

|                                     |               |
|-------------------------------------|---------------|
| Bending radius (static)             | ≥ 5 x Ø       |
| Bending radius (dynamic)            | ≥ 15 x Ø      |
| UL cold bend rating                 | -40 °C        |
| Ambient temperature range (static)  | -40...+105 °C |
| Ambient temperature range (dynamic) | 5...+105 °C   |
| Temperature range (installation)    | -10...+105 °C |

### Approval

|           |                       |
|-----------|-----------------------|
| Approvals | UL 2238<br>CE<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.

## Circuit Diagram

