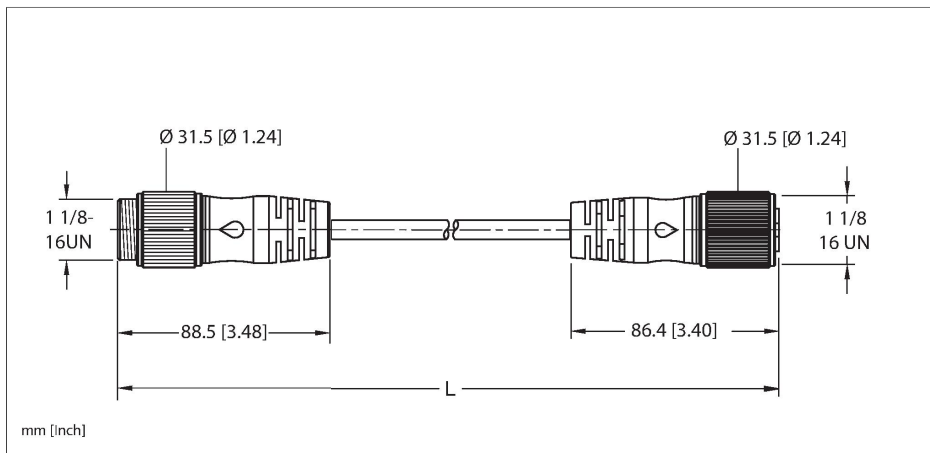


# RSM RKM 190-25M/S101

## Actuator and Sensor Cable – Extension Cable



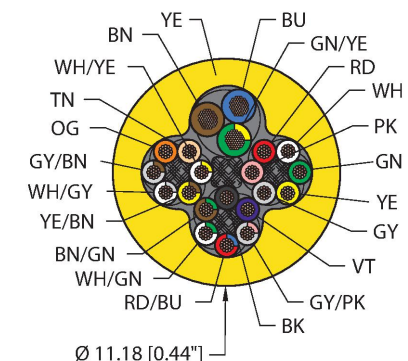
### Technische Daten

|                                 |                                                  |
|---------------------------------|--------------------------------------------------|
| Type                            | RSM RKM 190-25M/S101                             |
| ID                              | 100008981                                        |
| 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<br>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<br>NEMA: 1, 3, 4, 6P, 12 |
| Cable data                      |                                                  |
| Cable ID                        | RF50916                                          |
| Total number of conductors      | 21                                               |

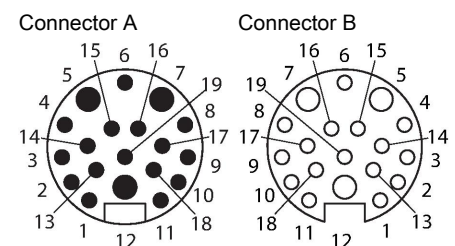
### Features

- UL US CE UK CA RoHS compliant IP67/IP68 IP69/IP69K DEGREE OF PROTECTION
- 1-1/8" Male, Straight, 19-pin
- 1-1/8" Female, Straight, 19-pin
- Yellow TPE jacket, 3X18+18X22 AWG
- 40 Cold Bend Rating
- Flame Ratings: UL1061, CSA FT1
- Flexlife® and C-Track Approved

### Cable cross section



### Contact assignment



## Technische Daten

|                                           |                                                                                                                                                                                                    |
|-------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Cable diameter                            | Ø 11.18 mm                                                                                                                                                                                         |
| Length (L)                                | 25 m, (+50mm or 4% of length/-0.0, Whichever is greater)                                                                                                                                           |
| Cable jacket                              | TPE, Yellow                                                                                                                                                                                        |
| Conductor diameter                        | 0.069 "                                                                                                                                                                                            |
| Conductor material                        | TC (tinned copper)                                                                                                                                                                                 |
| Conductor insulation material             | TPC-ET                                                                                                                                                                                             |
| Conductor size                            | 3 x 18 AWG [Similar to 0.75 mm²]                                                                                                                                                                   |
| Number of strands x O.D.                  | 65 x 36 AWG                                                                                                                                                                                        |
| Conductor diameter                        | 0.046                                                                                                                                                                                              |
| Conductor insulation material             | PP                                                                                                                                                                                                 |
| Conductor size                            | 18x 22 AWG [Similar to 0.34 mm²]                                                                                                                                                                   |
| Conductor colors                          | VT, RD, GY, RD/BU, BU, GN, BN, WH/<br>GN, WH/YE, WH/GY, BK, GN/YE, YE/<br>BN, BN/GN, WH, YE, PK, GY/BN, GY/PK                                                                                      |
| <b>Electrical properties at +20 °C</b>    |                                                                                                                                                                                                    |
| Rated voltage                             | 300 V                                                                                                                                                                                              |
| Current                                   | 4 A (Contacts 5,7,12) / 2 A (All other contacts)                                                                                                                                                   |
| <b>Mechanical and chemical properties</b> |                                                                                                                                                                                                    |
| Bending radius (static)                   | ≥ 5 x Ø                                                                                                                                                                                            |
| Bending radius (dynamic)                  | ≥ 10 x Ø                                                                                                                                                                                           |
| Torsion rating                            | Max. 20 million                                                                                                                                                                                    |
| UL cold bend rating                       | -40 °C                                                                                                                                                                                             |
| Flex rating 10 x Ø                        | 20 million cycles                                                                                                                                                                                  |
|                                           | *When properly installed @ 20°C,<br>50%RH, and a cycle speed of ≤0.5 cycles<br>per second.                                                                                                         |
| C-Track                                   | Yes                                                                                                                                                                                                |
| Ambient temperature range (static)        | -40...+105 °C                                                                                                                                                                                      |
| Ambient temperature range (dynamic)       | 5...+105 °C                                                                                                                                                                                        |
| Temperature range (installation)          | -10...+105 °C                                                                                                                                                                                      |
| <b>Approval</b>                           |                                                                                                                                                                                                    |
| Approvals                                 | UL 2238<br>CE<br>RoHS                                                                                                                                                                              |
| <b>Note</b>                               |                                                                                                                                                                                                    |
|                                           | - Flex ratings may be reduced if used in<br>extreme temperatures, exposure to cer-<br>tain chemicals, operating above the rated<br>cycle speed, or operating below the rated<br>cable bend radius. |

## Circuit Diagram

|    |       |      |
|----|-------|------|
| 1  | VT    | C 1  |
| 2  | RD    | C 2  |
| 3  | GY    | C 3  |
| 4  | RD/BU | C 4  |
| 5  | BU    | C 5  |
| 6  | GN    | C 6  |
| 7  | BN    | C 7  |
| 8  | WH/GN | C 8  |
| 9  | WH/YE | C 9  |
| 10 | WH/GY | C 10 |
| 11 | BK    | C 11 |
| 12 | GN/YE | C 12 |
| 13 | YE/BN | C 13 |
| 14 | BN/GN | C 14 |
| 15 | WH    | C 15 |
| 16 | YE    | C 16 |
| 17 | PK    | C 17 |
| 18 | GY/BN | C 18 |
| 19 | GY/PK | C 19 |

## Technische Daten

- We reserve the right to make technical alterations without prior notice.

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