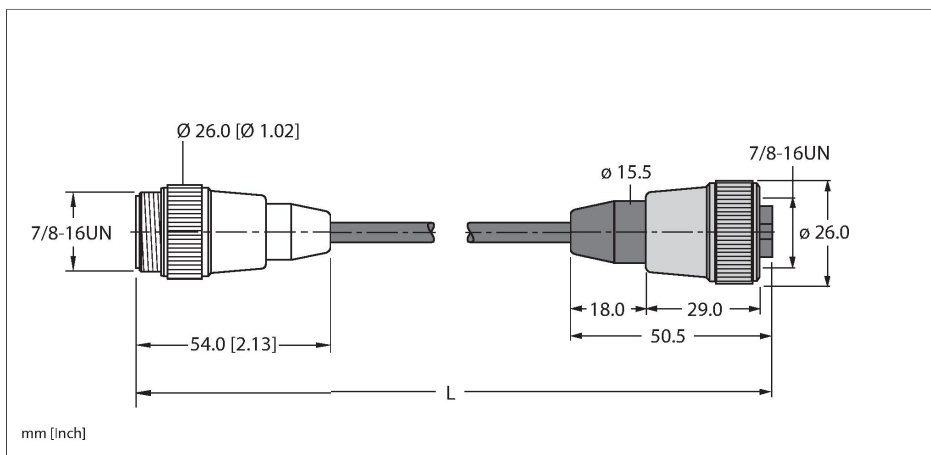


# RSM RKM 50-3M/S90

## PROFIBUS-DP power cable – PUR cable jacket



### Technische Daten

|                                 |                                  |
|---------------------------------|----------------------------------|
| Type                            | RSM RKM 50-3M/S90                |
| ID                              | U2282-92                         |
| Connector A                     | Male, 7/8"-16 UN, Straight       |
| Number of contacts              | 5                                |
| Contacts                        | Metal, 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, When coupled               |
|                                 | NEMA: 1, 3, 4, 6P, 12            |
| Connector B                     | Female, 7/8"-16 UN, Straight     |
| Number of contacts              | 5                                |
| Contacts                        | Metal, CuZn, Gold-plated         |
| Contact carriers                | Plastic, TPU, Yellow             |
| Connector body                  | Plastic, TPU, Black              |
| Coupling nut                    | Brass, CuZn, Nickel-plated       |
| Tightening torque               | 2 Nm                             |
| Mechanical life                 | > 100 Mating cycles              |
| Pollution degree                | 3                                |
| Protection class (When coupled) | IP67, Only when screwed together |
|                                 | NEMA: 1, 3, 4, 6P, 12            |

### Features

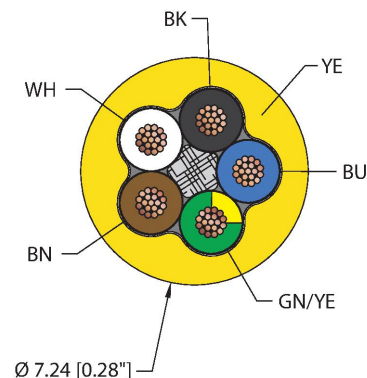


- Power cable: 5 × 18 AWG
- Jacket material: TPU,
- Jacket color: yellow
- Jacket diameter: 7.2 mm
- UL, CSA approval
- RoHS compliant
- Protection class IP67
- 7/8" female, straight
- 7/8" male, straight
- Cable length: 3.0 m
- 7/8" Male, Straight, 5-pin
- 7/8" Female, Straight, 5-pin
- General Purpose Cable
- Yellow TPU jacket, 5X18 AWG
- -40 Cold Bend Rating
- Flame Ratings: UL1061, CSA FT1
- Flexlife® and C-Track Approved

### Cable cross section

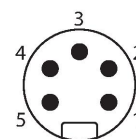
## Technische Daten

| Cable data                                                                                                                                                                           |                                                                                      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Cable ID                                                                                                                                                                             | RF50751                                                                              |
| Total number of conductors                                                                                                                                                           | 5                                                                                    |
| Cable diameter                                                                                                                                                                       | Ø 7.2 mm ±0.30                                                                       |
| Length (L)                                                                                                                                                                           | 3 m, (+50mm or 4% of length/-0.0, Whichever is greater)                              |
| Cable jacket                                                                                                                                                                         | TPU, Yellow                                                                          |
| Conductor diameter                                                                                                                                                                   | 0.076 "                                                                              |
| Conductor material                                                                                                                                                                   | TC (tinned copper)                                                                   |
| Conductor insulation material                                                                                                                                                        | PVC                                                                                  |
| Conductor size                                                                                                                                                                       | 5 x 0.82 mm <sup>2</sup> x 18 AWG [Similar to 0.75 mm <sup>2</sup> ]                 |
| Number of strands x O.D.                                                                                                                                                             | 19 x 0.25 mm x 0.0092 "                                                              |
| Conductor colors                                                                                                                                                                     | BK, BU, GN/YE, BN, WH                                                                |
| Electrical properties at +20 °C                                                                                                                                                      |                                                                                      |
| Rated voltage                                                                                                                                                                        | 600 V                                                                                |
| Current                                                                                                                                                                              | 9 A                                                                                  |
| Mechanical and chemical properties                                                                                                                                                   |                                                                                      |
| Bending radius (static)                                                                                                                                                              | ≥ 5 x Ø                                                                              |
| Bending radius (dynamic)                                                                                                                                                             | ≥ 10 x Ø                                                                             |
| UL cold bend rating                                                                                                                                                                  | -40 °C                                                                               |
| Flex rating 20 x Ø                                                                                                                                                                   | 10 million cycles                                                                    |
|                                                                                                                                                                                      | *When properly installed @ 20°C, 50%RH, and a cycle speed of ≤0.5 cycles per second. |
| C-Track                                                                                                                                                                              | Yes                                                                                  |
| Ambient temperature range (static)                                                                                                                                                   | -40...+105 °C                                                                        |
| Ambient temperature range (dynamic)                                                                                                                                                  | -40...+90 °C                                                                         |
| Temperature range (installation)                                                                                                                                                     | -10...+90 °C                                                                         |
| Other Features                                                                                                                                                                       |                                                                                      |
| UV resistance                                                                                                                                                                        | yes                                                                                  |
| Flame-retardant                                                                                                                                                                      | yes                                                                                  |
| Approval                                                                                                                                                                             |                                                                                      |
| Approvals                                                                                                                                                                            | UL<br>CSA                                                                            |
| 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. |                                                                                      |

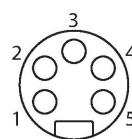


## Contact assignment

Connector A



Connector B



## Circuit Diagram



## Technische Daten

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

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