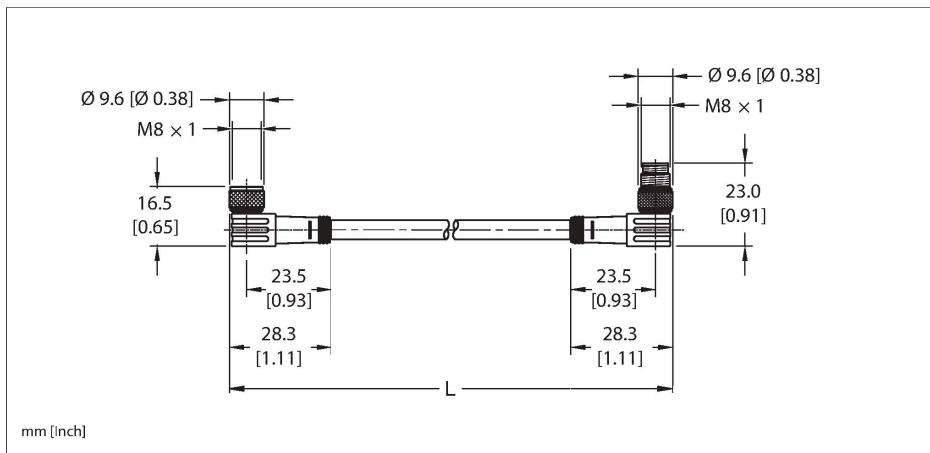


# PKW 3M-12-PSW 3M

## Actuator and Sensor Cable – Extension Cable



### Technische Daten

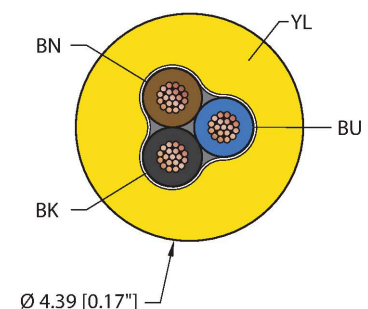
|                                 |                                                           |
|---------------------------------|-----------------------------------------------------------|
| Type                            | PKW 3M-12-PSW 3M                                          |
| ID                              | U-34007                                                   |
| Connector A                     | Female, M8 × 1, Right angle                               |
| Design specification            | Acc. to IEC 61076-2-104                                   |
| Number of contacts              | 3                                                         |
| Contacts                        | Brass, CuZn, Gold-plated                                  |
| Contact carriers                | Plastic, Nylon or TPU, Black                              |
| Connector body                  | Plastic, TPU, Yellow                                      |
| Coupling nut                    | Brass, CuZn, Nickel-plated                                |
| Connector seal                  | O-ring, Plastic, FKM/FPM                                  |
| Tightening torque (range)       | 0.4 ... 0.8 Nm<br>(note max. torque of mating connector!) |
| Mechanical life                 | > 100 Mating cycles                                       |
| Pollution degree                | 3                                                         |
| Protection class (When coupled) | IP67                                                      |
|                                 | NEMA: 1, 3, 4, 6P                                         |
| Connector B                     | Male, M8 × 1, Right angle                                 |
| Design specification            | Acc. to IEC 61076-2-104                                   |
| Number of contacts              | 3                                                         |
| Contacts                        | Brass, CuZn, Gold-plated                                  |
| Contact carriers                | Plastic, Nylon or TPU, Black                              |
| Connector body                  | Plastic, TPU, Yellow                                      |
| Coupling nut                    | Brass, CuZn, Nickel-plated                                |
| Tightening torque               | 0.4 ... 0.8 Nm<br>(note max. torque of mating connector!) |

### Features



- M8, Female, Right-angle, 3-pin
- Threaded Connector
- M8, Male, Right-angle, 3-pin
- Threaded Connector
- General Purpose Cable
- Yellow PVC jacket, 3X24 AWG
- -40 Cold Bend Rating
- Flame Ratings: UL1061, CSA FT1
- Flexlife® and C-Track Approved

### Cable cross section



### Contact assignment

## Technische Daten

|                                 |                     |
|---------------------------------|---------------------|
| Mechanical life                 | > 100 Mating cycles |
| Pollution degree                | 3                   |
| Protection class (When coupled) | IP68                |
|                                 | NEMA: 1, 3, 4, 6P   |

### Cable data

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| Cable ID                      | RF50642                                                  |
| Total number of conductors    | 3                                                        |
| Cable diameter                | Ø 4.39 mm                                                |
| Length (L)                    | 12 m, (+50mm or 4% of length/-0.0, Whichever is greater) |
| Cable jacket                  | PVC, Yellow                                              |
| Conductor diameter            | 0.044 "                                                  |
| Conductor material            | TC (tinned copper)                                       |
| Conductor insulation material | PVC                                                      |
| Conductor size                | 3 x 24 AWG [Similar to 0.25 mm²]                         |
| Number of strands x O.D.      | 19 x 36 AWG                                              |
| Conductor colors              | BN, BU, BK                                               |

### Electrical properties at +20 °C

|               |            |
|---------------|------------|
| Rated voltage | 125 VAC/DC |
| Current       | 4 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) | 5...+105 °C                                                                          |
| Temperature range (installation)    | -10...+105 °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 cer-

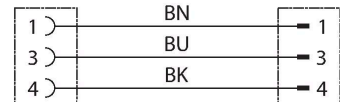
Connector A



Connector B



## Circuit Diagram



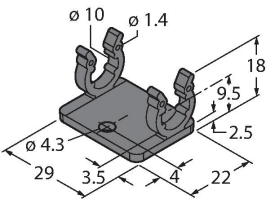
Technische Daten

tain 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.

Montagezubehör

**M8-CORDSETS-MOUNTING-CLIP-(10/BAG)                      200005995**



10 Pack of black mounting clips and M4x8mm mounting screws, used to secure cable to cable connection points.