

# PKW3M-P7X2-6-RSC4T/TXL

## Actuator and Sensor Cable, PUR – Extension Cable



### Technical data

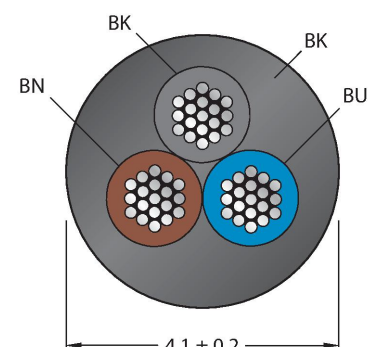
|                              |                                                              |
|------------------------------|--------------------------------------------------------------|
| Type                         | PKW3M-P7X2-6-RSC4T/TXL                                       |
| ID                           | 6625818                                                      |
| Connector A                  | Female, M8 × 1, Angled                                       |
| Number of Pins               | 3                                                            |
| Contacts                     | Brass, CuZn, Gold-plated                                     |
| Contact carriers             | Plastic, TPU, Black                                          |
| Connector body               | Plastic, TPU, Translucent                                    |
| Coupling nut/screw           | Brass, CuZn, Nickel-plated                                   |
| Seal                         | Plastic, FPM/FKM                                             |
| Tightening torque (range)    | 0.5 ... 0.6 Nm<br>(observe max. torque of mating connector!) |
| LED display                  | dual LED                                                     |
| Display operating voltage    | LED, Green                                                   |
| Display switch state         | LED, Yellow                                                  |
| Mechanical lifespan          | > 100 Mating cycles                                          |
| Pollution degree             | 3                                                            |
| Protection class             | IP67, IP69K, Only in screwed condition                       |
| Connector B                  | Male, M12 × 1, Straight, A-coded                             |
| Number of pins               | 3                                                            |
| Contacts                     | Brass, CuZn, Gold-plated                                     |
| Contact carriers             | Plastic, TPU, Black                                          |
| Connector body               | Plastic, TPU, Black                                          |
| Coupling nut/retaining screw | Brass, CuZn, Nickel-plated                                   |
| Mechanical life              | > 100 Mating cycles                                          |
| Pollution degree             | 3                                                            |
| Protection class             | IP67, IP69K, Only when screwed together                      |

### Features



- Female M8, angled, 3-pin
- With 2-color LED (PNP, yellow, green)
- Male M12, straight, 3-pin
- Jacket material: PUR
- Jacket color: black
- Suitable for drag chain use
- Resistant to chemicals, UV radiation and oils
- Flame retardant (FT2 acc. to UL 1581, IEC 60332-2-2)
- Resistant to welding sparks
- Free from halogen, silicone, PVC and LABS
- Particularly resistant to abrasion
- Protection class: IP67, IP69K
- Cable length: 6.0 m

### Cable Cross-Section



### Contact assignment

Technical data

| Cable                                           |                    |
|-------------------------------------------------|--------------------|
| Cable diameter                                  | Ø 4.1 mm ±0.20     |
| Cable length                                    | 6 m                |
| Cable jacket                                    | PUR, Black         |
| Core insulation                                 | PP                 |
| Core cross-section                              | 3 x 0.34 mm²       |
| Arrangement of strands                          | 42 x 0.1 mm        |
| Core colors                                     | BN, BU, BK         |
| Electrical properties at +20 °C                 |                    |
| Rated voltage                                   | 30 V <sub>DC</sub> |
| Test voltage                                    | 2000 V             |
| Current                                         | 4 A                |
| Insulation resistance                           | > 30.5 MΩ/km       |
| forward resistance                              | max. 57 Ω/km       |
| Mechanical and chemical properties              |                    |
| Bending radius (stationary installation)        | ≥ 5 x Ø            |
| Bending radius (flexible use)                   | ≥ 10 x Ø           |
| Bending cycles                                  | ≥ 5 million        |
| Admissible acceleration                         | max. 5 m/s²        |
| Admissible travel path, horizontal              | 5 m (at 5 m/s²)    |
| Admissible travel path, vertical                | 2 m (at 5 m/s²)    |
| Admissible traversing speed                     | 3.3 m/s            |
| Torsional stress                                | ± 180 °/m          |
| Ambient temperature range (stationary)          | -50...+80 °C       |
| Ambient temperature range (In motion)           | -25...+80 °C       |
| Ambient temperature during drag chain operation | -25...+60 °C       |



Circuit Diagram



Accessories

|                                                                                                                       |         |                                                                                                                                         |         |
|-----------------------------------------------------------------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|---------|
| TORQUE-WRENCH-SET-AS                                                                                                  | 6936170 | BLANK-LABEL-FOR-CORDSETS-TEL-TXL                                                                                                        | 6936206 |
| Torque wrench set; handles with adjustable torque 0.4-1.0 Nm, torque wrench for M8 (SW9), fork wrench for M12 (SW 14) |         | Label for TEL and TXL cables, length: 18 mm, height: 4 mm, material: polycarbonate (PC), color: white, halogen-free and flame-retardant |         |



Accessories

| Dimension drawing | Type                  | ID        |                                                                           |
|-------------------|-----------------------|-----------|---------------------------------------------------------------------------|
|                   | LABEL-HOLDER-FLEX-PVC | 100048170 | PVC label holder for identification of extension cables (TEL/TXL product) |

| Dimension drawing | Type | ID |                                                                                                         |
|-------------------|------|----|---------------------------------------------------------------------------------------------------------|
|                   |      |    | series); for cable diameters: min. 5 mm;<br>dimensions 4 × 18 mm; delivery unit: 50<br>pcs. per package |