

# PKW4M-P7X2-5-PSG4M/TXL

## Actuator and Sensor Cable, PUR – Extension Cable



### Technical data

|                              |                                                              |
|------------------------------|--------------------------------------------------------------|
| Type                         | PKW4M-P7X2-5-PSG4M/TXL                                       |
| ID                           | 6626244                                                      |
| Connector A                  | Female, M8 × 1, Angled                                       |
| Number of Pins               | 4                                                            |
| 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, M8 × 1, Straight                                       |
| Number of pins               | 4                                                            |
| Contacts                     | Brass, CuZn, Gold-plated                                     |
| Contact carriers             | Plastic, TPU, Black                                          |
| Connector body               | Plastic, TPU, Black                                          |
| Coupling nut/retaining screw | Brass, CuZn, Nickel-plated                                   |
| Tightening torque            | 0.5 ... 0.6 Nm (observe max. torque of mating connector!)    |
| Mechanical life              | > 100 Mating cycles                                          |
| Pollution degree             | 3                                                            |

### Features



- Female M8, angled, 4-pin
- With 2-color LED (PNP, yellow, green)
- Male M8, straight, 4-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: 5.0 m

### Cable Cross-Section



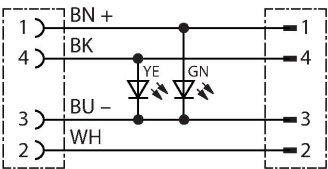
### Contact assignment

Technical data

|                                                 |                                         |
|-------------------------------------------------|-----------------------------------------|
| Protection class                                | IP67, IP69K, Only when screwed together |
| Cable                                           |                                         |
| Cable diameter                                  | Ø 4.5 mm ±0.20                          |
| Cable length                                    | 5 m                                     |
| Cable jacket                                    | PUR, Black                              |
| Core insulation                                 | PP                                      |
| Core cross-section                              | 4 x 0.34 mm <sup>2</sup>                |
| Arrangement of strands                          | 42 x 0.1 mm                             |
| Core colors                                     | BN, WH, 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/s <sup>2</sup>                 |
| Admissible travel path, horizontal              | 5 m (at 5 m/s <sup>2</sup> )            |
| Admissible travel path, vertical                | 2 m (at 5 m/s <sup>2</sup> )            |
| 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                            |
| Approvals                                       | cULus                                   |



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 series); for cable diameters: min. 5 mm; dimensions 4 × 18 mm; delivery unit: 50 pcs. per package |