

# PKW3M-5/TXL

## Actuator and Sensor Cable, PUR – Connection Cable



### Technical data

|                                        |                                                              |
|----------------------------------------|--------------------------------------------------------------|
| Type                                   | PKW3M-5/TXL                                                  |
| ID                                     | 6625557                                                      |
| Connector A                            | Female, M8 × 1, Angled                                       |
| Number of Pins                         | 3                                                            |
| Contacts                               | Brass, CuZn, Gold-plated                                     |
| Contact carriers                       | Plastic, TPU, Black                                          |
| Connector body                         | Plastic, TPU, Black                                          |
| 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!) |
| Mechanical lifespan                    | > 100 Mating cycles                                          |
| Pollution degree                       | 3                                                            |
| Protection class                       | IP67, IP69K, Only in screwed condition                       |
| <b>Cable</b>                           |                                                              |
| Cable diameter                         | Ø 4.1 mm ±0.20                                               |
| Cable length                           | 5 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                                                   |
| <b>Electrical properties at +20 °C</b> |                                                              |
| Rated voltage                          | 50 V <sub>AC</sub> /60 V <sub>DC</sub>                       |
| Test voltage                           | 2000 V                                                       |
| Current                                | 4 A                                                          |
| Insulation resistance                  | > 30.5 MΩ/km                                                 |

### Features



- Female M8, angled, 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: 5.0 m

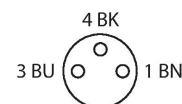
### Cable Cross-Section



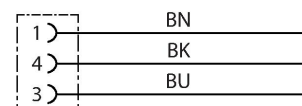
### Contact assignment

## Technical data

|                                                 |                              |
|-------------------------------------------------|------------------------------|
| forward resistance                              | max. 57 Ω/km                 |
| <b>Mechanical and chemical properties</b>       |                              |
| 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                        |



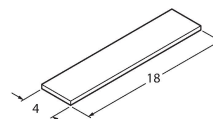
## Circuit Diagram



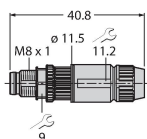
## Accessories

|                                                                                                                       |                |
|-----------------------------------------------------------------------------------------------------------------------|----------------|
| <b>TORQUE-WRENCH-SET-AS</b>                                                                                           | <b>6936170</b> |
| Torque wrench set; handles with adjustable torque 0.4-1.0 Nm, torque wrench for M8 (SW9), fork wrench for M12 (SW 14) |                |

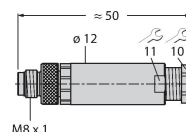
|                                                                                                                                         |                |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>BLANK-LABEL-FOR-CORDSETS-TEL-TXL</b>                                                                                                 | <b>6936206</b> |
| Label for TEL and TXL cables, length: 18 mm, height: 4 mm, material: polycarbonate (PC), color: white, halogen-free and flame-retardant |                |



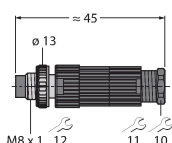
|                                                                                                                                                                                                                         |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>HAS5131-0</b>                                                                                                                                                                                                        | <b>6905402</b> |
| Field-wireable male connector, M8 x 1, straight, 3-pin, insulation piercing connection, cable feedthrough 2.5 to 5.1 mm, core cross-section/terminal capacity 0.14 to 0.34 mm <sup>2</sup> , plastic housing, metal nut |                |



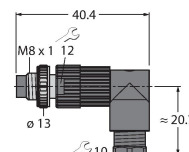
|                                                                                                                                                                                                                        |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>BS5133-0</b>                                                                                                                                                                                                        | <b>6901012</b> |
| Konfektionierbarer Stecker, M8 x 1, gerade, 3-polig, Schraubklemmanschluss, Leitungsdurchlass 3.5 bis 5.0 mm, Adernquerschnitt/Klemmvermögen 0.14 bis 0.50 mm <sup>2</sup> , Kunststoffgehäuse, Metallüberwurfschraube |                |



|                                                                                                                                                                                                              |                |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>HS5131-0</b>                                                                                                                                                                                              | <b>6902710</b> |
| Field-wireable male connector, M8 x 1, straight, 3-pin, pressfit technology, cable feedthrough 4.0 to 5.0 mm, core cross-section/terminal capacity 0.14 to 0.34 mm <sup>2</sup> , plastic housing, metal nut |                |



|                                                                                                                                                                                                            |                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>HS5231-0</b>                                                                                                                                                                                            | <b>6902810</b> |
| Field-wireable male connector, M8 x 1, angled, 3-pin, pressfit technology, cable feedthrough 4.0 to 5.0 mm, core cross-section/terminal capacity 0.14 to 0.34 mm <sup>2</sup> , plastic housing, metal nut |                |



FW-PRKPM0320-SA-S-0406

100002292



Field-wireable female connector, M8 × 1, straight, 3-pin, screw terminal connection, cable feedthrough 4.0 to 5.5 mm, core cross-section/terminal capacity 0.14 to 0.5 mm², plastic housing, metal coupling nut

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 |