

# RKP46PSB-30-RSP46PSB/TXR

## Supply Cable - M12 Power – Extension Cable



### Technical data

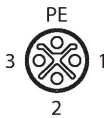
|                              |                                                              |
|------------------------------|--------------------------------------------------------------|
| Type                         | RKP46PSB-30-RSP46PSB/TXR                                     |
| ID                           | 100030360                                                    |
| Connector A                  | Female, M12 × 1, Straight, S-coded                           |
| Number of pins               | 3+PE                                                         |
| Contacts                     | Copper-nickel, CuNi, Gold-plated                             |
| Contact carriers             | Plastic, PBT GF, Black                                       |
| Connector body               | Plastic, TPE, 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             | IP65, IP67, IP69K, Only in screwed condition                 |
| Connector B                  | Male, M12 × 1, Straight, S-coded                             |
| Number of Pins               | 3+PE                                                         |
| Contacts                     | Copper-nickel, CuNi, Gold-plated                             |
| Contact carriers             | Plastic, PBT GF, Black                                       |
| Connector body               | Plastic, TPE, Black                                          |
| Coupling nut/retaining screw | Brass, CuZn, Nickel-plated                                   |
| Tightening torque            | 0.5 ... 0.6 Nm<br>(observe max. torque of mating connector!) |
| Mechanical life              | > 100 Mating cycles                                          |
| Pollution degree             | 3                                                            |
| Protection class             | IP65, IP67, IP69K, Only when screwed together                |

### Features



- M12 female connector, S-coded, straight, 4-pin (3+PE)
- M12 male connector, S-coded, straight, 4-pin (3+PE)
- Sheathing material: PUR
- Jacket color: red
- Highly resistant against oils, coolants, lubricants and emulsions
- Suitable for use in drag chains
- Resistant to vibrations and shocks
- Flame-retardant
- Halogen-free
- RoHS-compliant
- Protection class: IP65, IP67, IP69K
- Cable length: 30 m

### Contact assignment



### Circuit Diagram



Technical data

| Cable                                    |                              |
|------------------------------------------|------------------------------|
| Cable diameter                           | Ø 7.4 mm ±0.20               |
| Cable length                             | 30 m                         |
| Cable jacket                             | PUR, Red                     |
| Core insulation                          | PP                           |
| Core cross-section                       | 4 x 1.5 mm <sup>2</sup>      |
| Core colors                              | BK1, BK2, BK3, GNYE          |
| Electrical properties at +20 °C          |                              |
| Rated voltage                            | 600 V                        |
| Current                                  | 16 A                         |
| Mechanical and chemical properties       |                              |
| Bending radius (stationary installation) | ≥ 4 x Ø                      |
| Bending radius (flexible use)            | ≥ 7 x Ø                      |
| Bending cycles                           | ≥ 10 million                 |
| Admissible acceleration                  | max. 5 m/s <sup>2</sup>      |
| Admissible travel path, horizontal       | 5 m (at 5 m/s <sup>2</sup> ) |
| Torsional stress                         | ± 30 °/m                     |
| Ambient temperature (fixed)              | -40...+80 °C                 |
| Ambient temperature (mobile)             | -30...+80 °C                 |
| Ambient temperature (drag chain)         | -20...+60 °C                 |
| Qualified for drag chain use             | yes                          |
| Halogen-free                             | yes                          |
| Oil-resistant                            | yes                          |
| Flame-retardant                          | yes                          |

Derating Curve



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 |