



Model Number

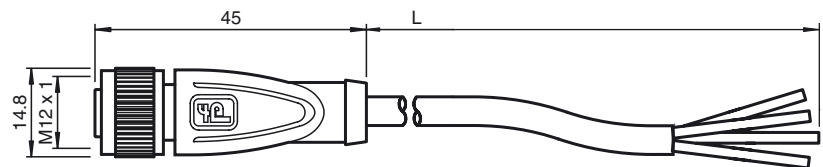
V1-G-BK5M-PUR-R1

Single-ended female cordset, M12, PUR cable, 4-pin, robotics

Features

- Highly flexible—suitable for robotics
- Knurled nut suitable for tool assembly
- Immunity to vibration, with mechanical latching
- Gold plated contacts
- Suitable for drag chains
- Flame resistant cable
- Halogen-free
- Degree of protection IP67 / IP68 / IP69K
- Resistant to microbes and hydrolysis

Dimensions



Technical data

General specifications

| | |
|----------------|---|
| Number of pins | 4 |
|----------------|---|

Electrical specifications

| | | |
|-------------------|-------|----------------------------|
| Operating voltage | U_B | max. 250 V AC/DC |
| Test voltage | | > 1500 V _{eff} AC |
| Operating current | I_B | max. 4 A |
| Volume resistance | | < 5 m Ω |

Ambient conditions

| | |
|---------------------|--|
| Ambient temperature | -40 ... 90 °C (-40 ... 194 °F) cable, fixed: -40 ... 80 °C (-40 ... 176 °F) cable, flexing: -25 ... 80 °C (-13 ... 176 °F) |
|---------------------|--|

| | |
|------------------|---|
| Pollution degree | 3 |
|------------------|---|

Mechanical specifications

| | |
|----------------------|------------------------------|
| Contact elements | spring-loaded contact socket |
| Pin diameter | 1 mm |
| Degree of protection | IP67 / IP68 / IP69k |

Material

| | |
|-----------------|--------------|
| Contacts | CuSn / Au |
| Contact surface | Au |
| Body | TPU, black |
| Cable | PUR |
| Slotted nut | Diecast zinc |
| Core insulation | PP |

Cable

| | |
|-----------------|--|
| Sheath diameter | \varnothing 4.3 mm |
| Bending radius | > 10 x cable diameter, moving > 5 x cable diameter, fixed |

| | |
|-------|-----------------------------|
| Color | black (similar to RAL 7021) |
|-------|-----------------------------|

| | |
|-----------------|---|
| Number of cores | 4 |
|-----------------|---|

| | |
|--------------------|----------------------|
| Core cross-section | 0.34 mm ² |
|--------------------|----------------------|

| | |
|------------------------|---------------------------|
| Conductor construction | 42 x 0.1 mm \varnothing |
|------------------------|---------------------------|

| | | |
|--------|---|-----|
| Length | L | 5 m |
|--------|---|-----|

Drag chain suitability

| | |
|-------------------|-----------------|
| Drag chain cycles | \geq 10000000 |
|-------------------|-----------------|

| | |
|-----------------|--------------|
| Motion velocity | \leq 3 m/s |
|-----------------|--------------|

| | |
|--------------|----------------------------|
| Acceleration | \leq 10 m/s ² |
|--------------|----------------------------|

| | |
|------------------|---------------|
| Torsional stress | \pm 360 °/m |
|------------------|---------------|

Flammability

| | |
|-----------------|-------|
| Contact carrier | 94 HB |
|-----------------|-------|

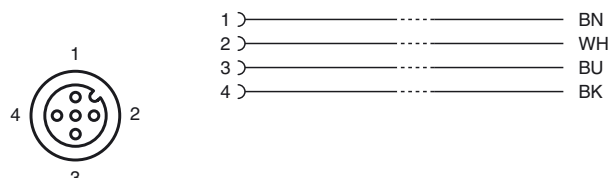
| | |
|---------|--------|
| Housing | 94 V-2 |
|---------|--------|

| | |
|-------|-----|
| Cable | FT2 |
|-------|-----|

Compliance with standards and directives

| | |
|---------------------|--|
| Standard conformity | |
|---------------------|--|

Electrical connection





| | |
|-----------------------------------|---|
| Degree of protection | EN 60529:2000 |
| Standards | IEC 61076-2-101:2008 |
| Flammability | Grip: UL 94 Cabling: in accordance with UL FT2 |
| Halogen-free | DIN VDE 0472 Part 15 (plastic) DIN EN 50267-2-1 (flue gas) |
| Chemical resistance | EN 60811-404: 168 h at 100° C |
| Approvals and certificates | |
| UL approval | AWM STYLE 20549 80 °C 300V AWM I A/B 80 °C 300V FT2 (cable) |

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