

# Female cordset

## V19-G-BK40M-PVC-U

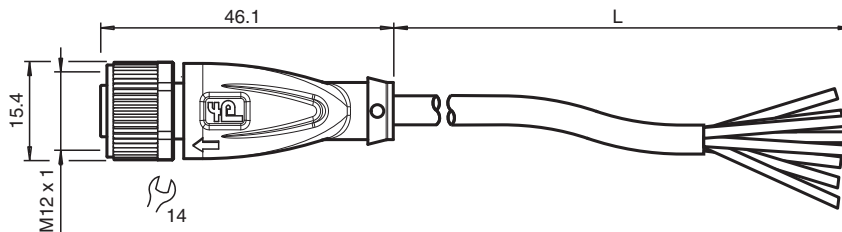


- Degree of protection IP68 / IP69
- UL listed for USA and Canada
- Specific design protects against loosening and inaccurate installation

Female cordset single-ended M12 straight A-coded, 8-pin, PVC cable black, UL approved



### Dimensions



### Technical Data

#### General specifications

|                   |  |                  |
|-------------------|--|------------------|
| Connector 1       |  |                  |
| Connection        |  | socket           |
| Construction type |  | M12              |
| Style             |  | straight         |
| Locking           |  | screw connection |
| Number of pins    |  | 8                |
| Coding            |  | A-coded          |
| Connector 2       |  |                  |
| Connection        |  | cable end        |

#### Electrical specifications

|                   |       |                 |
|-------------------|-------|-----------------|
| Operating voltage | $U_B$ | max. 30 V AC/DC |
| Operating current | $I_B$ | max. 2 A        |

#### Conformity

|                      |  |                                     |
|----------------------|--|-------------------------------------|
| Degree of protection |  | EN 60529                            |
| Plug connection      |  | connector M12 x 1 : IEC 61076-2-101 |
| Flammability         |  | UL 758 / 1581 , IEC 60332-1-2       |
| Oil resistance       |  | DIN EN 60811-2-1                    |

#### Approvals and certificates

|                |  |                                                |
|----------------|--|------------------------------------------------|
| UL approval    |  | AWM STYLE 2464 AWM I A/B 80°C 300V FT1 (cable) |
| UL File Number |  | E231213                                        |

#### Ambient conditions

|                     |  |                                |
|---------------------|--|--------------------------------|
| Ambient temperature |  |                                |
| Plug connector      |  | -40 ... 90 °C (-40 ... 194 °F) |

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Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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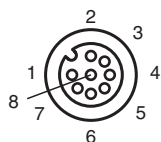
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## Technical Data

|                                  |   |                                                                                                                                  |
|----------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------|
| Cable, fixed                     |   | -40 ... 80 °C (-40 ... 176 °F)                                                                                                   |
| Cable, flexing                   |   | -20 ... 80 °C (-4 ... 176 °F)                                                                                                    |
| Pollution degree                 |   | 3                                                                                                                                |
| <b>Mechanical specifications</b> |   |                                                                                                                                  |
| Plug connector                   |   |                                                                                                                                  |
| Tightening torque                |   | 0.6 Nm                                                                                                                           |
| Loosening protection             |   | available                                                                                                                        |
| Tool installation                |   | straight knurling and hexagon nut SW = 14 mm                                                                                     |
| Mating cycles                    |   | min. 100                                                                                                                         |
| Degree of protection             |   | IP68 / IP69                                                                                                                      |
| Cable                            |   | according to IEC/EN 60228 (DIN VDE 0295) class 6                                                                                 |
| Sheath diameter                  |   | 6.3 mm                                                                                                                           |
| Bending radius                   |   | > 10 x cable diameter, moving<br>> 5 x cable diameter, fixed                                                                     |
| Sheath stripping force           |   | max. 50 N / 300 mm                                                                                                               |
| Sheath color                     |   | black (similar to RAL 9005)                                                                                                      |
| Number of cores                  |   | 8                                                                                                                                |
| Core cross section               |   | 0.34 mm <sup>2</sup>                                                                                                             |
| Cores color                      |   | Core 1: white<br>Core 2: brown<br>Core 3: green<br>Core 4: yellow<br>Core 5: grey<br>Core 6: pink<br>Core 7: blue<br>Core 8: red |
| Core construction                |   | 42 x 0.1 mm Ø                                                                                                                    |
| Length                           | L | 40 m                                                                                                                             |
| Cable code                       |   | Li Y YM 8 x 0,34                                                                                                                 |
| <b>Material</b>                  |   |                                                                                                                                  |
| Plug connector                   |   |                                                                                                                                  |
| Screw connection                 |   | Zinc diecast, nickel-plated                                                                                                      |
| Body                             |   | TPU, black                                                                                                                       |
| Seal                             |   | FKM                                                                                                                              |
| Contact surface                  |   | gold plated (Au)                                                                                                                 |
| Flammability                     |   | V-2                                                                                                                              |
| Cable                            |   |                                                                                                                                  |
| Sheathing                        |   | PVC                                                                                                                              |
| Core insulation                  |   | PVC                                                                                                                              |
| Oil resistance                   |   | yes                                                                                                                              |
| Flammability                     |   | FT1                                                                                                                              |

## Connection



|   |   |    |
|---|---|----|
| 1 | — | WH |
| 2 | — | BN |
| 3 | — | GN |
| 4 | — | YE |
| 5 | — | GY |
| 6 | — | PK |
| 7 | — | BU |
| 8 | — | RD |

## Accessories

|                                                                                   |                              |                                                  |
|-----------------------------------------------------------------------------------|------------------------------|--------------------------------------------------|
|  | <b>MH V1-SCREWDRIVER</b>     | Torque screwdriver (0.6 Nm)                      |
|  | <b>MH V1-BIT M12</b>         | plug-in cap M12                                  |
|  | <b>V1/V3-LABELHOLDER</b>     | Label holder                                     |
|  | <b>V1/V3-LABEL</b>           | Label plate                                      |
|  | <b>MH V1-Holder</b>          | Modular universal holder for M12 connectors      |
|  | <b>V1-CLIP</b>               | Unlocking protector for M12 connector            |
|  | <b>V1-MARKING-RING-COLOR</b> | Marking rings for M12 connectors, various colors |