

# Receptacles V19-M16-500

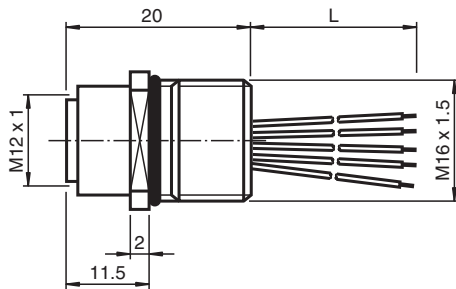


■ Front/screw mounting

Receptacles, M12/M16, 8-pin



## 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            |
| Test voltage          |       | > 2000 V <sub>eff</sub> AC |
| Operating current     | $I_B$ | max. 2 A                   |
| Volume resistance     |       | < 3 mΩ                     |
| Insulation resistance |       | min. 100 MΩ                |

### Conformity

|                      |  |                                     |
|----------------------|--|-------------------------------------|
| Degree of protection |  | EN 60529                            |
| Plug connection      |  | connector M12 x 1 : IEC 61076-2-101 |
| Flammability         |  | UL 94                               |

### Approvals and certificates

|                |  |         |
|----------------|--|---------|
| UL File Number |  | E191152 |
|----------------|--|---------|

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

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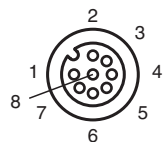
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**PEPPERL+FUCHS**

Technical Data

|                           |   |                                                                                                                                  |
|---------------------------|---|----------------------------------------------------------------------------------------------------------------------------------|
| Ambient conditions        |   |                                                                                                                                  |
| Ambient temperature       |   |                                                                                                                                  |
| Cable, fixed installation |   | -40 ... 85 °C (-40 ... 185 °F)                                                                                                   |
| Cable, flexing            |   | -25 ... 85 °C (-13 ... 185 °F)                                                                                                   |
| Pollution degree          |   | 3                                                                                                                                |
| Mechanical specifications |   |                                                                                                                                  |
| Plug connector            |   |                                                                                                                                  |
| Mating cycles             |   | min. 100                                                                                                                         |
| Degree of protection      |   | IP65 / IP67                                                                                                                      |
| Connection                |   | tinned copper single leads, Ø1.15 ±0.07 mm                                                                                       |
| Cable                     |   |                                                                                                                                  |
| Number of cores           |   | 8                                                                                                                                |
| Core cross section        |   | 0.25 mm²                                                                                                                         |
| 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         |   | 14 x 0.15 mm Ø<br>AWG 24                                                                                                         |
| Length                    | L | 500 mm                                                                                                                           |
| Installation              |   | Front mounting M16 , tightening torque: 3 ... 4 Nm                                                                               |
| Mass                      |   | 25.82 g                                                                                                                          |
| Material                  |   |                                                                                                                                  |
| Plug connector            |   |                                                                                                                                  |
| Screw connection          |   | Zinc diecast, nickel-plated                                                                                                      |
| Seal                      |   | FKM                                                                                                                              |
| Contact surface           |   | gold plated (Au)                                                                                                                 |
| Flammability              |   | V-0                                                                                                                              |
| Cable                     |   |                                                                                                                                  |
| Core insulation           |   | TPE                                                                                                                              |
| General information       |   |                                                                                                                                  |
| Scope of delivery         |   | locknut not included                                                                                                             |

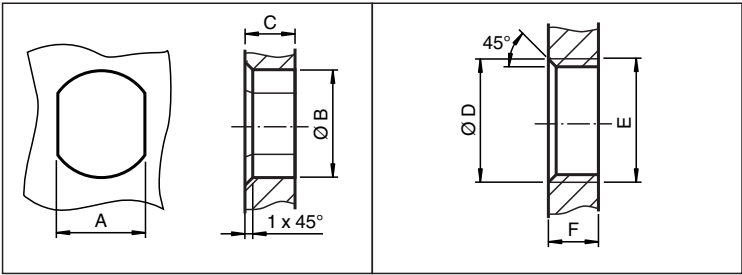
Connection



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

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Mounting



|        | A                    | B                      | C        | D                    | E       | F        |
|--------|----------------------|------------------------|----------|----------------------|---------|----------|
| M8     | 7.1 <sup>+0.1</sup>  | Ø 8.2 <sup>+0.1</sup>  | 2 - 4 mm | -                    | M8x0.5  | 2 - 4 mm |
| M12    | 11 <sup>+0.1</sup>   | Ø 12.2 <sup>+0.1</sup> | < 4 mm   | -                    | M12x1   | < 4.5 mm |
| M16    | 13.5 <sup>+0.1</sup> | Ø 16.1                 | < 4.5 mm | Ø 17 <sup>+0.2</sup> | M16x1.5 | > 2.5 mm |
| M20    | 13.5 <sup>+0.1</sup> | Ø 20.1                 | -        | Ø 20 <sup>+0.2</sup> | M20x1.5 | < 6 mm   |
| PG9    | 13.5 <sup>+0.1</sup> | Ø 15.3 <sup>+0.1</sup> | < 4.5 mm | Ø 16                 | PG9     | > 2.5 mm |
| PG13.5 | 18.8 <sup>+0.1</sup> | Ø 20.5 <sup>+0.1</sup> | -        | Ø 22 <sup>±0.1</sup> | PG13.5  | -        |

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