

**IE-C5DD4UG0165MSSA70-E****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

Assembled IE cables, PROFINET, Cat. 5, PUR, green, drag-chain compatible, M12-RJ45

**General ordering data**

|            |  |
|------------|--|
| Version    | Dragline cable, PROFINET, M12 D-code – IP 67 straight socket, RJ45 IP 20, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 16.5 m |
| Order No.  | <a href="#">1211080165</a>   |
| Type       | IE-C5DD4UG0165MSSA70-E   |
| GTIN (EAN) | 4099986592599  |
| Qty.       | 1 pc(s).   |

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## Technical data

## Dimensions and weights

|            |         |                 |              |
|------------|---------|-----------------|--------------|
| Length     | 16.5 m  | Length (inches) | 649.606 inch |
| Net weight | 1,100 g |                 |              |

## Temperatures

|                          |                |                       |                |
|--------------------------|----------------|-----------------------|----------------|
| Storage temperature      | -50 °C...70 °C | Operating temperature | -40 °C...70 °C |
| Installation temperature | -20 °C...60 °C |                       |                |

## Cable specific standards

|                               |   |                              |                          |
|-------------------------------|---|------------------------------|--------------------------|
| Standard, insulating material | DIN EN 50290-2-23 (VDE 0819) Table 2/A (HD 624.3) | Standard, shielding material | DIN EN 13602 Cu-ETP-A..B |
| Standard, wire material       | DIN EN 13602 Cu-ETP-A                             |                              |                          |

## Standards

|                               |   |                              |                          |
|-------------------------------|---|------------------------------|--------------------------|
| Standard, insulating material | DIN EN 50290-2-23 (VDE 0819) Table 2/A (HD 624.3) | Standard, shielding material | DIN EN 13602 Cu-ETP-A..B |
| Standard, wire material       | DIN EN 13602 Cu-ETP-A                             |                              |                          |

## Cable structure

|                              |   |                                       |   |
|------------------------------|---|---------------------------------------|---|
| Arrangement of wire cores    | Star-quad   | Colour sequence or wires - wire pairs | white, yellow, blue, orange                       |
| Complete shielding           | Aluminium foil, Shielding braid made from copper wiring | Cross-section                         | 4*AWG 22/7 - 0.32 mm <sup>2</sup>                 |
| Diameter of inner sheathing  | 3.9 mm  | Filler                                | As central element                                |
| Insulation                   | PE  | Insulation cross-section              | 1.5 mm  |
| Material sheath              | PUR   | Number of wires                       | 4   |
| Overlap of shielding braid   | 85 %  | Sheath diameter, max.                 | 6.7 mm  |
| Sheath diameter, min.        | 6.3 mm  | Sheathing colour                      | green (RAL 6018)                                  |
| Sheathing material thickness | 0.9 mm  | Shielding                             | SF/UTP  |
| Shielding braid thickness    | 0.13 mm   | Standard designations                 | 2YH(ST)C11Y<br>2x2x0.75/1,5-100 LI VZN<br>GN FRNC |
| Strands                      | 7   | Wire core insulation thickness        | 0.38 mm   |
| Wire material                | Stranded tin-plated copper wire                         |                                       |   |

## Electrical properties of cable

|                                |                                      |                               |   |
|--------------------------------|--------------------------------------|-------------------------------|---|
| Capacity at 1 kHz              | 52 nF/km                             | Category                      | Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B) |
| Characteristic impedance       | 100 ± 15 Ω at 1–100 MHz              | Delay skew                    | 40 ns/100m                                  |
| Loop resistance                | 120 Ω/km                             | Operating voltage (UL rating) | 600 V                                       |
| Operating voltage, UL          | 600 V                                | Resistance differential       | 3 %   |
| Signal propagation time        | 5.3 ns/m                             | Speed                         | 180 m/min                                   |
| Test voltage: wire-wire-shield | 2000 V <sub>eff</sub> , 50 Hz, 1 min | Transfer impedance            | 20 mΩ/m at 10 MHz                           |

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## Mechanical and material properties of cable

|                                 |  |                                |                                |
|---------------------------------|--|--------------------------------|--------------------------------|
| Abrasion resistance             | very good                              | Acceleration                   | 4 m/s <sup>2</sup>             |
| Bending cycles                  | 3 Mio                                  | Fire propagation               | No                             |
| Halogen                         | halogen-free, according to IEC 60754-2 | Min. bending radius, once only | 5 x cable diameter             |
| Min. bending radius, repetitive | 7.5 x cable diameter                   | Pulling force                  | ≤ 150 N                        |
| Resistance to oils              | in accordance with IEC 60811-2-1       | Resistance to spread of flame  | in accordance with IEC 60332-1 |
| Silicone-free                   | Yes                                    | Speed                          | 180 m/min                      |
| UV-resistant                    | Yes                                    |                                |                                |

## Plug, left

|           |  |
|-----------|--|
| Plug left | M12, IP67, female contact, straight, plug, Plastic, shielded |
|-----------|--|

## Plug, right

|            |   |
|------------|---|
| Plug right | RJ45, IP20, male contact, straight, plug, Plastic, shielded |
|------------|---|

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002599    | ETIM 7.0    | EC002599    |
| ETIM 8.0    | EC002599    | ETIM 9.0    | EC002599    |
| ECLASS 9.0  | 27-06-03-08 | ECLASS 9.1  | 27-06-03-08 |
| ECLASS 10.0 | 27-06-03-08 | ECLASS 11.0 | 27-06-03-08 |
| ECLASS 12.0 | 27-06-03-08 | ECLASS 13.0 | 27-06-03-08 |

## Environmental Product Compliance

|            |                                      |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1                       |
| SCIP       | 67cf1078-beca-4687-860b-dc475a6ec24a |

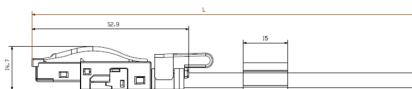
## Downloads

|                             |  |
|-----------------------------|--|
| Engineering Data            | <a href="#">CAD data – STEP</a>  |
| Product Change Notification | <a href="#">PCN-PB47-20230322-A-EN</a><br><a href="#">PCN-PB47-20230322-A-DE</a> |
| Catalogues                  | <a href="#">Catalogues in PDF-format</a>   |

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**Drawings****Dimensioned drawing****Dimensioned drawing****Wiring diagram**

| RJ45 |        | M12 |
|------|--------|-----|
| 1    | gelb   | 1   |
| 3    | weiß   | 2   |
| 2    | orange | 3   |
| 6    | blau   | 4   |