

## IE-C5DD4UG0100MSSA70-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, 10 m |
| Order No.  | <a href="#">1211080100</a>   |
| Type       | IE-C5DD4UG0100MSSA70-E   |
| GTIN (EAN) | 4050118069266  |
| Qty.       | 1 items  |

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## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate no. (cULus) E316369

## Dimensions and weights

|            |       |                 |               |
|------------|-------|-----------------|---------------|
| Length     | 10 m  | Length (inches) | 393.7008 inch |
| Net weight | 651 g |                 |               |

## Temperatures

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

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 6c                                   |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 67cf1078-beca-4687-860b-dc475a6ec24a |

## Cable specific standards

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

## General standards

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## Standards

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

## Cable structure

|                          |   |                       |                                   |
|--------------------------|---|-----------------------|-----------------------------------|
| Strands                  | 7   | Sheathing colour      | green (RAL 6018)                  |
| Standard designations    | 2YH(ST)C11Y<br>2x2x0.75/1,5-100 LI VZN<br>GN FRNC | Cross-section         | 4*AWG 22/7 - 0.32 mm <sup>2</sup> |
| Shielding                | SF/UTP  | Number of wires       | 4                                 |
| Insulation cross-section | 1.5 mm  | Insulation            | PE                                |
| Sheath diameter, max.    | 6.7 mm  | Sheath diameter, min. | 6.3 mm                            |
| Material sheath          | PUR   | Filler                | As central element                |

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**Technical data**

|                              |   |                                       |                             |
|------------------------------|---|---------------------------------------|-----------------------------|
| Arrangement of wire cores    | Star-quad   | Wire core insulation thickness        | 0.38 mm                     |
| Complete shielding           | Aluminium foil, Shielding braid made from copper wiring | Overlap of shielding braid            | 85 %                        |
| Wire material                | Stranded tin-plated copper wire                         | Diameter of inner sheathing           | 3.9 mm                      |
| Sheathing material thickness | 0.9 mm  | Colour sequence or wires - wire pairs | white, yellow, blue, orange |
| Shielding braid thickness    | 0.13 mm   |                                       |                             |

**Electrical properties of cable**

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

**Mechanical and material properties of cable**

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

**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 8.0    | EC002599    | ETIM 9.0    | EC002599    |
| ETIM 10.0   | EC002599    | ECLASS 14.0 | 27-06-03-08 |
| ECLASS 15.0 | 27-06-03-08 |             |             |

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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   |