

## IE-C5DD4UG0005MSAA70-E

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

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



### General ordering data

|            |   |
|------------|---|
| Version    | Dragline cable, PROFINET, M12 D-code – IP 67 angled socket, RJ45 IP 20, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 0.5 m |
| Order No.  | <a href="#">2098200005</a>  |
| Type       | IE-C5DD4UG0005MSAA70-E  |
| GTIN (EAN) | 4050118681116   |
| Qty.       | 1 items   |

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## Technical data

## Approvals

|      |         |
|------|---------|
| ROHS | Conform |
|------|---------|

## Dimensions and weights

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Length     | 0.5 m   | Length (inches) | 19.685 inch |
| Net weight | 74.72 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                          |                         |                       |

## 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                |
| 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 |

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**Technical data**

**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**

|            |  |           |   |
|------------|--|-----------|---|
| Plug right | RJ45, IP20, male contact, straight, Zinc diecast, shielded | Plug left | M12, D-coded, IP67, female contact, angled 90°, plug, Plastic, shielded |
|------------|--|-----------|---|

**Plug, left**

|           |   |
|-----------|---|
| Plug left | M12, D-coded, IP67, female contact, angled 90°, plug, Plastic, shielded |
|-----------|---|

**Plug, right**

|            |  |
|------------|--|
| Plug right | RJ45, IP20, male contact, straight, Zinc diecast, 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 |             |             |