

**IE-C5DD4UG0030MCSDCS-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 straight pin, M8 D-code - IP67 straight pin, Cat. 5e |
| Order No.  | <a href="#">2859780030</a>  |
| Type       | IE-C5DD4UG0030MCSDCS-E  |
| GTIN (EAN) | 4064675573616   |
| Qty.       | 1 pc(s).  |

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## Technical data

## Dimensions and weights

|            |       |
|------------|-------|
| Net weight | 150 g |
|------------|-------|

## Temperatures

|                     |                |                          |                |
|---------------------|----------------|--------------------------|----------------|
| Storage temperature | -50 °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                                |
| 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 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. 5e                              |
| 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 %                                  |
| 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       |                                |                                      |

## 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                         | No                   | 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              | Yes                  | Resistance to spread of flame  | Yes                |
| Silicone-free                   | Yes                  | Speed                          | 180 m/min          |
| UV-resistant                    | Yes                  |                                |                    |

Creation date July 5, 2024 6:16:19 AM CEST

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Plug, left**

|           |   |
|-----------|---|
| Plug left | M12, D-coded, IP67, male contact, straight, plug, Plastic, shielded |
|-----------|---|

**Plug, right**

|            |  |
|------------|--|
| Plug right | M8, D-coded, IP67, male contact, straight, 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 |

**Approvals**

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

**Downloads**

|                  |  |
|------------------|--|
| Engineering Data | <a href="#">CAD data – STEP</a>          |
| Catalogues       | <a href="#">Catalogues in PDF-format</a> |