

**IE-C5DD4UG0030MCSMCA-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

**General ordering data**

|            |                                                                                                                                                 |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | Dragline cable, PROFINET, M12 D-code – IP 67 straight pin, M12 D-code – IP 67 angled pin, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 3 m |
| Order No.  | <a href="#">1059770030</a>                                                                                                                      |
| Type       | IE-C5DD4UG0030MCSMCA-E                                                                                                                          |
| GTIN (EAN) | 4032248808144                                                                                                                                   |
| Qty.       | 1 pc(s).                                                                                                                                        |

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## Technical data

## Dimensions and weights

|            |       |                 |             |
|------------|-------|-----------------|-------------|
| Length     | 3 m   | Length (inches) | 118.11 inch |
| Net weight | 220 g |                 |             |

## Temperatures

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

## Environmental Product Compliance

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

## 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                             |                              |                          |

## General standards

|                         |         |                    |                 |
|-------------------------|---------|--------------------|-----------------|
| Certificate no. (cULus) | E316369 | Connector standard | IEC 61076-2-101 |
|-------------------------|---------|--------------------|-----------------|

## Standards

|                              |                          |                               |                                                   |
|------------------------------|--------------------------|-------------------------------|---------------------------------------------------|
| Connector standard           | IEC 61076-2-101          | 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 - 0.36 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), SF/UTP                          |
| 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                     |

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|                                |                                      |
|--------------------------------|--------------------------------------|
| Deviation                      | 40 ns/100m                           |
| Loop resistance                | 120 Ω/km                             |
| Operating voltage (UL rating)  | Operating voltage 600 V              |
| Operating voltage (UL rating)  | 600 V undefined                      |
| 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                    |

## 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

|           |                                                               |            |                                                                 |
|-----------|---------------------------------------------------------------|------------|-----------------------------------------------------------------|
| Plug left | M12, D, IP67, male contact, straight, plug, Plastic, shielded | Plug right | M12, D, IP67, male contact, angled 90°, plug, Plastic, shielded |
|-----------|---------------------------------------------------------------|------------|-----------------------------------------------------------------|

## Plug, left

|                |                                 |
|----------------|---------------------------------|
| Connector left | M12 D-code – IP 67 straight pin |
|----------------|---------------------------------|

## Plug, right

|                 |                               |
|-----------------|-------------------------------|
| Connector right | M12 D-code – IP 67 angled pin |
|-----------------|-------------------------------|

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002599    | ETIM 7.0    | EC002599    |
| ETIM 8.0    | 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 |

## Approvals

Approvals



|                         |            |
|-------------------------|------------|
| ROHS                    | Conform    |
| UL File Number Search   | UL Website |
| Certificate no. (cULus) | E316369    |

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Catalogue status 09.09.2022 / We reserve the right to make technical changes.

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### Downloads

|                                             |                                                                                                                                                            |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">PROFINET Manufacturer's Declaration</a>                                                                                                        |
| Engineering Data                            | <a href="#">WSCAD</a>                                                                                                                                      |
| User Documentation                          | <a href="#">MAN IE GUIDE DE</a><br><a href="#">MAN IE GUIDE EN</a>                                                                                         |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                   |
| Brochures                                   | <a href="#">FL FIELDWIRING EN</a><br><a href="#">PI PROFINET CABLING EN</a><br><a href="#">FL FIELDWIRING EN</a><br><a href="#">PI PROFINET CABLING EN</a> |

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## Drawings

### Wiring

|     |        |     |
|-----|--------|-----|
| M12 |        | M12 |
| 1   | yellow | 1   |
| 2   | white  | 2   |
| 3   | orange | 3   |
| 4   | blue   | 4   |

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