

**IE-C5DD4UG0020MCSMCA-E****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Industrial Ethernet connection technology by Weidmüller offers the optimal solution for the infrastructure of your machine, system or factory. All connection technology is available from one source.

The benefits for you:

- IEC-standardised connectors, in the variants 1, 4, 5 , 6 and 14
- consistently Cat. 6<sub>A</sub> with **STEADYTEC®** technology
- in IP20 and IP67
- all relevant industrial connections: RJ45, SC, ...
- comprehensive range of accessories

**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, 2 m |
| Order No.       | <a href="#">1059770020</a>                                                                                                                      |
| Type            | IE-C5DD4UG0020MCSMCA-E                                                                                                                          |
| GTIN (EAN)      | 4050118205305                                                                                                                                   |
| Qty.            | 1 pc(s).                                                                                                                                        |
| Available until | 2013-12-06                                                                                                                                      |

Creation date April 15, 2021 11:35:44 AM CEST

Catalogue status 09.04.2021 / We reserve the right to make technical changes.

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## Technical data

## Dimensions and weights

|            |       |                 |            |
|------------|-------|-----------------|------------|
| Length     | 2 m   | Length (inches) | 78.74 inch |
| Net weight | 160 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 | 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                             |                              |                          |

## Electrical properties

|                     |           |
|---------------------|-----------|
| Insulation strength | 500,000 Ω |
|---------------------|-----------|

## General standards

|                         |         |
|-------------------------|---------|
| Certificate no. (cULus) | E316369 |
|-------------------------|---------|

## 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)                                  |
| 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                     |
| Deviation                     | 40 ns/100m                                  |
| Insulation strength           | 500,000 Ω                                   |
| Loop resistance               | 120 Ω/km                                    |
| Operating voltage (UL rating) | Operating voltage 600 V                     |
| Operating voltage (UL rating) | 600 V undefined                             |

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|--------------------------------|--------------------------------------|
| 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

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

## Rating

|                     |           |
|---------------------|-----------|
| Insulation strength | 500,000 Ω |
|---------------------|-----------|

## Classifications

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

## Approvals

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E316369 |

## Downloads

|                    |                                          |
|--------------------|------------------------------------------|
| Brochure/Catalogue | <a href="#">Catalogues in PDF-format</a> |
|--------------------|------------------------------------------|