

**IE-C5DD4UG0200DCSU20-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, M8 D-code - IP67 straight pin, RJ45 IP 20, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 20 m |
| Order No.  | <a href="#">2706250200</a>                                                                                                  |
| Type       | IE-C5DD4UG0200DCSU20-E                                                                                                      |
| GTIN (EAN) | 4050118743180                                                                                                               |
| Qty.       | 1 items                                                                                                                     |

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## Technical data

## Approvals

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

## Dimensions and weights

|            |        |                 |               |
|------------|--------|-----------------|---------------|
| Length     | 20 m   | Length (inches) | 787.4016 inch |
| Net weight | 1238 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

|                    |                                 |
|--------------------|---------------------------------|
| Connector standard | IEC 61076-2-114, IEC 60603-7-51 |
|--------------------|---------------------------------|

## Standards

|                               |                                                   |                              |                                 |
|-------------------------------|---------------------------------------------------|------------------------------|---------------------------------|
| Standard, insulating material | DIN EN 50290-2-23 (VDE 0819) Table 2/A (HD 624.3) | Connector standard           | IEC 61076-2-114, IEC 60603-7-51 |
| 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 mm²       |
| 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-quadr                                              | 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 |

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| 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 | M8, D-coded, IP67, male contact, straight, plug, Plastic, shielded |
|-----------|--------------------------------------------------------------------|

## Plug, right

|            |                                                             |
|------------|-------------------------------------------------------------|
| Plug right | RJ45, IP20, male contact, straight, plug, Plastic, shielded |
|------------|-------------------------------------------------------------|

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002599    | ETIM 7.0    | EC002599    |
| ETIM 8.0    | EC002599    | ETIM 9.0    | EC002599    |
| ETIM 10.0   | 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 | ECLASS 14.0 | 27-06-03-08 |
| ECLASS 15.0 | 27-06-03-08 |             |             |

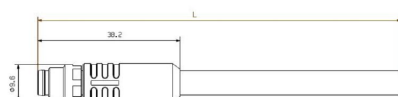
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# Drawings

## Dimensioned drawing



| RJ45 |        | M8 |
|------|--------|----|
| 1    | yellow | 1  |
| 3    | white  | 2  |
| 2    | orange | 3  |
| 6    | blue   | 4  |