

## IE-C5DS4VG0010MCSMCS-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, PVC, green, M12

### General ordering data

|            |   |
|------------|---|
| Version    | System cable, M12 D-code – IP 67 straight pin, M12 D-code – IP 67 straight pin, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PVC, 1 m |
| Order No.  | <a href="#">1102190010</a>  |
| Type       | IE-C5DS4VG0010MCSMCS-E  |
| GTIN (EAN) | 4032248993123   |
| Qty.       | 1 pc(s).  |

Creation date March 13, 2023 11:58:44 AM CET

Catalogue status 03.03.2023 / We reserve the right to make technical changes.

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**Technical data****Dimensions and weights**

|            |      |                 |            |
|------------|------|-----------------|------------|
| Length     | 1 m  | Length (inches) | 39.37 inch |
| Net weight | 97 g |                 |            |

**Temperatures**

|                             |                |                             |                |
|-----------------------------|----------------|-----------------------------|----------------|
| Storage temperature         | -40 °C...80 °C | Operating temperature       | -40 °C...70 °C |
| Operating temperature, min. | -40 °C         | Operating temperature, max. | 70 °C          |
| Installation temperature    | -40 °C...80 °C |                             |                |

**Cable specific standards**

|                              |                          |                               |   |
|------------------------------|--------------------------|-------------------------------|---|
| Standard, assembly           | UL-Style 21694           | 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 |
|-------------------------|---------|

**Standards**

|                              |                          |                               |   |
|------------------------------|--------------------------|-------------------------------|---|
| Standard, assembly           | UL-Style 21694           | 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  | 4.05 mm   | Filler                                | As central element                         |
| Insulation                   | PE  | Insulation cross-section              | 1.5 mm                                     |
| Material sheath              | PVC   | 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                 | 2YY(ST)CY<br>2x2x0,75/1,5-100 LI VZN<br>GN |
| Strands                      | 7   | Wire material                         | Stranded tin-plated copper wire            |

**Electrical properties of cable**

|                               |   |       |  |
|-------------------------------|---|-------|--|
| Category                      | Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B) |       |  |
| Characteristic impedance      | 100 ± 5 Ω at 100MHz                         |       |  |
| 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                                       |       |  |
| Signal propagation time       | 5.3 ns/m                                    |       |  |

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**Technical data**

|                                |                                      |
|--------------------------------|--------------------------------------|
| 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            | good                                     | Halogen                         | Yes                  |
| Min. bending radius, once only | 3.5 *diameter                            | Min. bending radius, repetitive | 7.5 x cable diameter |
| Resistance to spread of flame  | in accordance with IEC 60332-1 / UL 1685 |                                 |                      |

**Plug**

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

**Plug, left**

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

**Plug, right**

|                 |                                 |
|-----------------|---------------------------------|
| Connector right | M12 D-code – IP 67 straight 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 |

**Environmental Product Compliance**

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

**Approvals**

Approvals



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

**Downloads**

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

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**Data sheet****IE-C5DS4VG0010MCSMCS-E**

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**Drawings****Wiring**

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