

**IE-C5DS4VG0015MCSMCS-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, 1.5 m |
| Order No.  | <a href="#">1102190015</a>  |
| Type       | IE-C5DS4VG0015MCSMCS-E  |
| GTIN (EAN) | 4032248876938   |
| Qty.       | 1 pc(s).  |

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## Technical data

## Dimensions and weights

|            |       |                 |             |
|------------|-------|-----------------|-------------|
| Length     | 1.5 m | Length (inches) | 59.055 inch |
| Net weight | 132 g |                 |             |

## Temperatures

|                          |                |                       |                |
|--------------------------|----------------|-----------------------|----------------|
| Storage temperature      | -40 °C...80 °C | Operating temperature | -40 °C...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 | Connector standard | IEC 61076-2-101 |
|-------------------------|---------|--------------------|-----------------|

## Standards

|                               |   |                              |                          |
|-------------------------------|---|------------------------------|--------------------------|
| Connector standard            | IEC 61076-2-101                                   | 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) | 600 V               |
| Operating voltage, UL          | 600 V                                       | Signal propagation time       | 5.3 ns/m            |
| Test voltage: wire-wire-shield | 2000 V <sub>eff</sub> , 50 Hz, 1 min        | Transfer impedance            | 20 mΩ/m at 10 MHz   |

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## 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, left

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

## Plug, right

|            |   |
|------------|---|
| Plug right | M12, D-coded, IP67, male contact, straight, plug, 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 |
| ECLASS 14.0 | 27-06-03-08 |             |             |

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 67cf1078-beca-4687-860b-dc475a6ec24a |
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 6c                                   |

## 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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# Drawings

## Wiring

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