

## IE-C5DS4VG0008MCSMCS-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, 0.8 m |
| Order No.  | <a href="#">1102190008</a>  |
| Type       | IE-C5DS4VG0008MCSMCS-E  |
| GTIN (EAN) | 4050118260830   |
| Qty.       | 1 items   |

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## Technical data

## Approvals

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

## Dimensions and weights

|            |       |                 |              |
|------------|-------|-----------------|--------------|
| Length     | 0.8 m | Length (inches) | 31.4961 inch |
| Net weight | 82 g  |                 |              |

## Temperatures

|                          |                |                       |                |
|--------------------------|----------------|-----------------------|----------------|
| Storage temperature      | -40 °C...80 °C | Operating temperature | -40 °C...70 °C |
| Installation temperature | -40 °C...80 °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, assembly            | UL-Style 21694                                    | Standard, shielding material | DIN EN 13602 Cu-ETP-A..B |

## 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, assembly            | UL-Style 21694                                    | Standard, shielding material | DIN EN 13602 Cu-ETP-A..B |

## Cable structure

|                                       |  |                              |   |
|---------------------------------------|--|------------------------------|---|
| Strands                               | 7  | Sheathing colour             | green (RAL 6018)  |
| Standard designations                 | 2YY(ST)CY<br>2x2x0,75/1,5-100 LI VZN<br>GN | Cross-section                | 4*AWG 22/7 - 0.32 mm <sup>2</sup>                       |
| 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                       | PVC  | Filler                       | As central element                                      |
| Arrangement of wire cores             | Star-quad                                  | 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           | 4.05 mm                                    | Sheathing material thickness | 0.9 mm  |
| Colour sequence or wires - wire pairs | white, yellow, blue, orange                | Shielding braid thickness    | 0.13 mm   |

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**Technical data**

**Electrical properties of cable**

|                         |  |                                |                         |
|-------------------------|--|--------------------------------|-------------------------|
| Category                | Cat.5 (ISO/IEC 11801) /<br>Cat.5e (TIA T568-B) | Loop resistance                | 120 Ω/km                |
| Signal propagation time | 5.3 ns/m                                       | Test voltage: wire-wire-shield | 2000 Veff, 50 Hz, 1 min |
| Operating voltage, UL   | 600 V  | Operating voltage (UL rating)  | 600 V                   |
| Transfer impedance      | 20 mΩ/m at 10 MHz                              | Characteristic impedance       | 100 ± 5 Ω at 100MHz     |

**Mechanical and material properties of cable**

|                                |  |                                 |                      |
|--------------------------------|--|---------------------------------|----------------------|
| Halogen                        | Yes                                      | Min. bending radius, repetitive | 7.5 x cable diameter |
| Min. bending radius, once only | 3.5 *diameter                            | Abrasion resistance             | good                 |
| 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 8.0    | EC002599    | ETIM 9.0    | EC002599    |
| ETIM 10.0   | EC002599    | ECLASS 14.0 | 27-06-03-08 |
| ECLASS 15.0 | 27-06-03-07 |             |             |

**Drawings**

**Wiring**

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