

**IE-C5DS4VG0050MCSMCS-E****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**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, 5 m |
| Order No.       | <a href="#">1102190050</a>                                                                                                            |
| Type            | IE-C5DS4VG0050MCSMCS-E                                                                                                                |
| GTIN (EAN)      | 4032248964864                                                                                                                         |
| Qty.            | 1 pc(s).                                                                                                                              |
| Available until | 2013-12-06                                                                                                                            |

Creation date September 16, 2022 12:08:06 AM CEST

Catalogue status 09.09.2022 / We reserve the right to make technical changes.

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## Technical data

## Dimensions and weights

|            |       |                 |             |
|------------|-------|-----------------|-------------|
| Length     | 5 m   | Length (inches) | 196.85 inch |
| Net weight | 367 g |                 |             |

## Temperatures

|                          |                |                       |                |
|--------------------------|----------------|-----------------------|----------------|
| Storage temperature      | -40 °C...70 °C | Operating temperature | -40 °C...70 °C |
| Installation temperature | -20 °C...60 °C |                       |                |

## Environmental Product Compliance

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

## 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 - 0.36 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              | 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), SF/UTP                |
| 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 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 ± 15 Ω at 1–100 MHz                     |
| Loop resistance          | 120 Ω/km                                    |

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## Technical data

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

## Approvals

Approvals



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

## Downloads

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