

**IE-C5DS4VG0060MCSMCS-E****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

Industrial Ethernet connection technology by Weidmüller offers the optimal solution for the infrastructure of your machine, system or factory. All connection technology is available from one source.

The benefits for you:

- IEC-standardised connectors, in the variants 1, 4, 5 , 6 and 14
- consistently Cat. 6<sub>A</sub> with **STEADYTEC®** technology
- in IP20 and IP67
- all relevant industrial connections: RJ45, SC, ...
- comprehensive range of accessories

**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, 6 m |
| Order No.  | <a href="#">1102190060</a>                                                                                                            |
| Type       | IE-C5DS4VG0060MCSMCS-E                                                                                                                |
| GTIN (EAN) | 4050118517620                                                                                                                         |
| Qty.       | 1 pc(s).                                                                                                                              |

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

|            |       |                 |             |
|------------|-------|-----------------|-------------|
| Length     | 6 m   | Length (inches) | 236.22 inch |
| Net weight | 431 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 | Lead 7439-92-1 |
|------------|----------------|

**Cable specific standards**

|                                |                                                                                 |                              |                              |
|--------------------------------|---------------------------------------------------------------------------------|------------------------------|------------------------------|
| Standard, additional standards | UL-File E11901 Vol.1<br>Sec.12 Page 1, UL-File<br>E116441 Vol.1 Sec.6<br>Page 8 | Standard, assembly           | UL-Style 21694               |
| Standard, insulating material  | DIN EN 50290-2-23 (VDE<br>0819) Table 2/A (HD<br>624.3)                         | Standard, shielding material | DIN EN 13602 Cu-ETP-<br>A..B |
| Standard, wire material        | DIN EN 13602 Cu-ETP-A                                                           |                              |                              |

**Electrical properties**

|                     |           |
|---------------------|-----------|
| Insulation strength | 500,000 Ω |
|---------------------|-----------|

**Cable structure**

|                              |                                                               |                                       |                                            |
|------------------------------|---------------------------------------------------------------|---------------------------------------|--------------------------------------------|
| Arrangement of wire cores    | Star-quad                                                     | Colour sequence or wires - wire pairs | white, yellow, blue, orange                |
| Complete shielding           | Aluminium foil, Shielding<br>braid made from copper<br>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                                                        | Shielding 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<br>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                     |
| Insulation strength            | 500,000 Ω                                   |
| 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                                    |
| Test voltage: wire-wire-shield | 2000 V <sub>eff</sub> , 50 Hz, 1 min        |

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**Technical data**

Transfer impedance 20 mΩ/m at 10 MHz

**Mechanical and material properties of cable**

|                                 |                      |                                |                                          |
|---------------------------------|----------------------|--------------------------------|------------------------------------------|
| Abrasion resistance             | good                 | 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**

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

**Rating**

Insulation strength 500,000 Ω

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002599    | ETIM 7.0    | 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 |

**Approvals**

ROHS Conform

**Downloads**Engineering Data [STEP](#)