Data sheet

# IE-C5DS4VG0020MCAMSA-E

**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



Assembled IE cables, PROFINET, Cat. 5, PVC, green

## General ordering data

| | |
|---|---|
| Version | System cable, M12 D-code – IP 67 angled pin, M12 D-code – IP 67 angled socket, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PVC, 2 m |
| Order No. | 2503310020 |
| Type | IE-C5DS4VG0020MCAMSA-E |
| GTIN (EAN) | 4050118517972 |
| Qty. | 1 items |

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## Technical data

### Approvals

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

### Dimensions and weights

| | | | |
|---|---|---|---|
| Length | 2 m | Length (inches) | 78.7402 inch |
| Net weight | 166 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 |
| Standard, additional standards | UL-File E11901 Vol.1 Sec.12 Page 1, UL-File E116441 Vol.1 Sec.6 Page 8 | | |

### Standards

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| 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 |
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### Cable structure

| | | | |
|---|---|---|---|
| Strands | 7 | Sheathing colour | green (RAL 6018) |
| Standard designations | 2YY(ST)CY 2x2x0,75/1,5-100 LI VZN GN | Cross-section | 4*AWG 22/7 - 0.32 mm² |
| 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 |

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| 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 |

### Electrical properties of cable

| | | | |
|---|---|---|---|
| Category | Cat.5 (ISO/IEC 11801) / 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 | | |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 8.0 | EC002599 | ETIM 9.0 | EC002599 |
| ETIM 10.0 | EC002599 | ECLASS 14.0 | 27-06-03-08 |
| ECLASS 15.0 | 27-06-03-08 | | |

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## Drawings

### Wiring

