

IE-C5DS4VG0150MSSMCS-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 straight socket, M12 D-code – IP 67 straight pin, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PVC, 15 m |
| Order No. | 1176930150 |
| Type | IE-C5DS4VG0150MSSMCS-E |
| GTIN (EAN) | 4050118516968 |
| Qty. | 1 pc(s). |

Creation date March 13, 2023 12:26:31 PM CET

Catalogue status 03.03.2023 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

| | | | |
|------------|---------|-----------------|--------------|
| Length | 15 m | Length (inches) | 590.551 inch |
| Net weight | 1,030 g | | |

Temperatures

| | | | |
|-----------------------------|----------------|-----------------------------|----------------|
| Storage temperature | -40 °C...80 °C | Operating temperature | -40 °C...70 °C |
| Operating temperature, min. | -40 °C | Operating temperature, max. | 70 °C |
| Installation temperature | -40 °C...80 °C | | |

Cable specific standards

| | | | |
|--------------------------------|--|------------------------------|--------------------------|
| Standard, additional standards | UL-File E11901 Vol.1 Sec.12 Page 1, UL-File E116441 Vol.1 Sec.6 Page 8 | 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 | | |

Standards

| | | | |
|--------------------------------|--|------------------------------|--------------------------|
| Standard, additional standards | UL-File E11901 Vol.1 Sec.12 Page 1, UL-File E116441 Vol.1 Sec.6 Page 8 | 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 ² |
| 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 | | Standard designations | 2YY(ST)CY 2x2x0,75/1,5-100 LI VZN GN |
| Strands | 0.13 mm 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) | Operating voltage | 600 V | |
| Operating voltage (UL rating) | 600 V undefined | | |
| Operating voltage, UL | 600 V | | |

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| Signal propagation time | 5.3 ns/m |
| Test voltage: wire-wire-shield | 2000 V _{eff} , 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, female 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 socket |
|----------------|------------------------------------|

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 |

Environmental Product Compliance

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

Approvals

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

Downloads

| | |
|------------------|--|
| Engineering Data | CAD data – STEP |
| Catalogues | Catalogues in PDF-format |