

IE-C5DD4UG0050MSSMCS-E**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Assembled IE cables, PROFINET, Cat. 5, PUR, green, drag-chain compatible, M12

General ordering data

| | |
|------------|--|
| Version | Dragline cable, PROFINET, M12 D-code – IP 67 straight pin, M12 D-code – IP 67 straight socket, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 5 m |
| Order No. | 1059330050 |
| Type | IE-C5DD4UG0050MSSMCS-E |
| GTIN (EAN) | 4032248806614 |
| Qty. | 1 pc(s). |

Creation date March 22, 2021 9:27:57 PM CET

Catalogue status 12.03.2021 / 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 | 342 g | | |

Temperatures

| | | | |
|--------------------------|----------------|-----------------------|----------------|
| Storage temperature | -50 °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, 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 | | |

Electrical properties

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

General standards

| | | | |
|-------------------------|---------|--------------------|-----------------|
| Certificate no. (cULus) | E316369 | Connector standard | IEC 61076-2-101 |
|-------------------------|---------|--------------------|-----------------|

Standards

| | | | |
|------------------------------|--------------------------|-------------------------------|---|
| Connector standard | IEC 61076-2-101 | 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 ² |
| Diameter of inner sheathing | 3.9 mm | Filler | As central element |
| Insulation | PE | Insulation cross-section | 1.5 mm |
| Material sheath | PUR | 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 | 0.13 mm | Standard designations | 2YH(ST)C11Y 2x2x0,75/1,5-100 LI VZN GN FRNC |
| Strands | 7 | Wire core insulation thickness | 0.38 mm |
| Wire material | Stranded tin-plated copper wire | | |

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Electrical properties of cable

| | |
|--------------------------------|---|
| Capacity at 1 kHz | 52 nF/km |
| Category | Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B) |
| Characteristic impedance | 100 ± 15 Ω at 1–100 MHz |
| Deviation | 40 ns/100m |
| 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 |
| Resistance differential | 3 % |
| Signal propagation time | 5.3 ns/m |
| Speed | 180 m/min |
| 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 | very good | Acceleration | 4 m/s ² |
| Bending cycles | 3 Mio | Fire propagation | No |
| Halogen | halogen-free, according to IEC 60754-2 | Min. bending radius, once only | 5 x cable diameter |
| Min. bending radius, repetitive | 7.5 x cable diameter | Pulling force | ≤ 150 N |
| Resistance to oils | in accordance with IEC 60811-2-1 | Resistance to spread of flame | in accordance with IEC 60332-1 |
| Silicone-free | Yes | Speed | 180 m/min |
| UV-resistant | Yes | | |

Plug, left

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

Plug, right

| | |
|-----------------|---------------------------------------|
| Connector right | M12 D-code – IP 67 straight socket |
|-----------------|---------------------------------------|

plug

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

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 |

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Technical data

Approvals

Approvals



| | |
|-----------------------|---------|
| ROHS | Conform |
| UL File Number Search | E316369 |

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | PROFINET Manufacturer's Declaration |
| Engineering Data | STEP |
| Engineering Data | WSCAD |
| User Documentation | MAN IE GUIDE DE MAN IE GUIDE EN |

Data sheet**IE-C5DD4UG0050MSSMCS-E****Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
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Germanywww.weidmueller.com**Drawings****Wiring**

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