

**Industrial Ethernet  
IE-C5DD4UG0010MSSMCS-E**

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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
- Cat. 6 throughout<sub>A</sub> with **STEADYTEC**® technology
- pre-assembled cables and cables sold by the metre
- Copper and fibre-optic cables
- in IP20 and IP67
- all relevant industrial connections: RJ45, M12, SC, ...
- comprehensive range of accessories

**General ordering data**

Order No.	<a href="#">1059330010</a>
Type	IE-C5DD4UG0010MSSMCS-E
Version	Dragline cable, PROFINET, M12 IP 67 straight socket, M12 IP 67 straight male, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 1 m
GTIN (EAN)	4050118000368
Qty.	1 pc(s).

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

Length	1 m	Net weight	98.23 g
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**Temperatures**

Operating temperature	-40 °C...+70 °C	Storage temperature	-50 °C...+70 °C
Installation temperature	-20 °C...+60 °C		

**Electrical properties**

Insulation resistance	500.000 Ω
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**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, shielding material	DIN EN 13602 Cu-ETP-A..B		

**Cable structure**

Wire material	Stranded tin-plated copper wire	Standard designations	2YH(ST)C11Y 2x2x0,75/1,5-100 LI VZN GN FRNC
Strands	7	Cross-section	4*AWG 22/7 - 0.36 mm <sup>2</sup>
Insulation	PE	Insulation cross-section	1.5 mm
Wire core insulation thickness	0.38 mm	No. of wires	4
Arrangement of wire cores	Star-quad	Colour sequence or wires - wire pairs	white, yellow, blue, orange
Diameter of inner sheathing	3.9 mm	Filler	As central element
Shielding	SF/UTP	Complete shielding	Aluminium foil, Shielding braid made from copper wiring
Shielding braid thickness	0.13 mm	Overlap of shielding braid	85 %
Material sheath	PUR	Sheath diameter, min.	6.3 mm
Sheath diameter, max.	6.7 mm	Sheathing material thickness	0.9 mm
Sheathing colour	green (RAL 6018)		

**Electrical properties of cable**

Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	Operating voltage, UL	600 V
Test voltage: wire-wire-shield, at RMS 50Hz, 1 min.	2,000 V	Characteristic impedance	100 ± 15 Ω at 1-100 MHz
Loop resistance	120 Ω/km	Deviation	40 ns/100m
Resistance differential	3 %	Transfer impedance	20 mΩ/m at 10 MHz
Insulation resistance	500.000 Ω	Capacity at 1 kHz	52 nF/km
Signal propagation time	5.3 ns/m		

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**Mechanical and material properties of cable**

Bending cycles	3 Mio	Min. bending radius, once only	5 *diameter
Min. bending radius, repetitive	7.5 *diameter	Pulling force	≤ 150 N
Speed	180 m/min	Acceleration	4 m/s <sup>2</sup>
Abrasion resistance	very good	Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1	UV-resistant	Yes
Silicone-free	Yes	Halogen	in accordance with IEC 60754-2
Fire propagation	No		

**plug**

Version connector left	M12 IP 67 straight socket	Version connector right	M12 IP 67 straight male
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**Classifications**

eClass 6.2	27-06-03-90
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**Approvals**

Approvals

