

**Industrial Ethernet  
IE-C5DD4UG0100MCAMCA-E**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com



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

**General ordering data**

Type	IE-C5DD4UG0100MCAMCA-E
Order No.	<a href="#">1059890100</a>
Version	Dragline cable, PROFINET, M12 D-code – IP 67 angled pin, M12 D-code – IP 67 angled pin, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 10 m
GTIN (EAN)	4032248808342
Qty.	1 pc(s).

**Industrial Ethernet  
IE-C5DD4UG0100MCAMCA-E**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

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

Length	10 m	Length (inches)	0.394 inch
Net weight	664 g	Insulation cross-section	1.5 mm

**Temperatures**

Operating temperature, max.	70 °C	Operating temperature, min.	-40 °C
Storage temperature, max.	70 °C	Storage temperature, min.	-50 °C
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
-----------------------	-----------

**Standards**

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

**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 rating)	600 V undefined
Test voltage: wire-wire-shield	2000 V <sub>rms</sub> , 50 Hz, 1 min	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	Speed	180 m/min

**Industrial Ethernet  
IE-C5DD4UG0100MCAMCA-E**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Technical data**
**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	halogen-free, according to IEC 60754-2
Fire propagation	No		

**plug**

Connector left	M12 D-code – IP 67 angled pin	Connector right	M12 D-code – IP 67 angled pin
----------------	-------------------------------	-----------------	-------------------------------

**Classifications**

ETIM 3.0	EC000830	ETIM 4.0	EC000830
ETIM 6.0	EC002599	eClass 6.2	27-06-91-90
eClass 7.1	27-06-91-90	eClass 8.1	27-06-91-90
eClass 9.0	27-06-91-90	eClass 9.1	27-06-03-08

**Approvals**

Approvals



ROHS

Conform

**Data sheet****Industrial Ethernet  
IE-C5DD4UG0100MCAMCA-E**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
[www.weidmueller.com](http://www.weidmueller.com)

**Drawings****Wiring**

---

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

---

---