Industrial Ethernet
IE-C5DD4UG0020MCSMCS-E

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

General ordering data

Type	IE-C5DD4UG0020MCSMCS-E
Order No.	1025950020
Version	Dragline cable, PROFINET, M12 IP 67 straight male, M12 IP 67 straight male, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 2 m
GTIN (EAN)	4032248830862
Qty.	1 pc(s).

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Technische Daten

Dimensions and weights

Length	2 m	Net weight	163 g

Temperatures

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

Downloads

UL Approval	DUXR.E316369.pdf

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

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 mm²
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/s²
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

Version connector left	M12 IP 67 straight male	Version connector right	M12 IP 67 straight male

Classifications

ETIM 3.0	EC000830	eClass 6.2	27-06-91-90
eClass 7.1	27-06-91-90		

Approvals

Approvals	c UL us LISTED, PG ME25
ROHS	Conform

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Zeichnungen

Wiring

