IE-C5DD4UG0025MCAXXX-X

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
- consistently Cat. 6_A with **STEADY**TEC® technolgy
- in IP20 and IP67
- all relevant industrial connections: RJ45, SC, ...
- comprehensive range of accessories

General ordering data

Version	Dragline cable, PROFINET, M12 D-code – IP 67 angled pin, Open, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 2.5 m
Order No.	1059750025
Type	IE-C5DD4UG0025MCAXXX-X
GTIN (EAN)	4050118656329
Qty.	1 pc(s).

Creation date April 15, 2021 11:35:21 AM CEST

IE-C5DD4UG0025MCAXXX-X

Technical data

Dimensions and weights

Length	2.5 m	Length (inches)	98.425 inch
Net weight	174.575 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

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 mm²
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		

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		

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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/s²
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

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

Rating

Insulation strength	500,000 Ω

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

Approvals

ROHS	Conform

Downloads

Brochure/Catalogue	Catalogues in PDF-format

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