Data sheet

IE-C5DD4UG0320MCSA70-E

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



General ordering data

Version	Dragline cable, PROFINET, M12 D-code – IP 67 straight pin, RJ45 IP 20, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 32 m
Order No.	1044470320
Type	IE-C5DD4UG0320MCSA70-E
GTIN (EAN)	4050118256017
Qty.	1 items

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E316369

Dimensions and weights

Length	32 m	Length (inches)	1259.8425 inch
Net weight	2033.96 g		

Temperatures

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

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c
REACH SVHC	Lead 7439-92-1
SCIP	67cf1078-beca-4687-860b-dc475a6ec24a

Cable specific 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		

General standards

Certificate no. (cULus)	E316369

Cable structure

Strands	7	Sheathing colour	green (RAL 6018)
Standard designations	2YH(ST)C11Y 2x2x0,75/1,5-100 LI VZN GN FRNC	Cross-section	4*AWG 22/7 - 0.32 mm²
Shielding	SF/UTP	Number of wires	4
Insulation cross-section	1.5 mm	Insulation	PE
Sheath diameter, max.	6.7 mm	Sheath diameter, min.	6.3 mm
Material sheath	PUR	Filler	As central element
Arrangement of wire cores	Star-quad	Wire core insulation thickness	0.38 mm
Complete shielding	Aluminium foil, Shielding braid made from copper wiring	Overlap of shielding braid	85 %
Wire material	Stranded tin-plated copper wire	Diameter of inner sheathing	3.9 mm
Sheathing material thickness	0.9 mm	Colour sequence or wires - wire pairs	white, yellow, blue, orange
Shielding braid thickness	0.13 mm		

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Electrical properties of cable

Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	Speed	180 m/min
Capacity at 1 kHz	52 nF/km	Loop resistance	120 Ω/km
Signal propagation time	5.3 ns/m	Test voltage: wire-wire-shield	2000 Veff, 50 Hz, 1 min
Resistance differential	3 %	Operating voltage, UL	600 V
Delay skew	40 ns/100m	Operating voltage (UL rating)	600 V
Transfer impedance	20 mΩ/m at 10 MHz	Characteristic impedance	100 ± 15 Ω at 1–100 MHz

Mechanical and material properties of cable

Resistance to oils	in accordance with IEC 60811-2-1	Silicone-free	Yes
UV-resistant	Yes	Pulling force	≤ 150 N
Halogen	halogen-free, according to IEC 60754-2	Acceleration	4 m/s²
Min. bending radius, repetitive	7.5 x cable diameter	Min. bending radius, once only	5 x cable diameter
Abrasion resistance	very good	Bending cycles	3 Mio
Resistance to spread of flame	in accordance with IEC 60332-1	Speed	180 m/min
Fire propagation	No		

Plug

Plug right	RJ45, IP20, male contact, straight, plug, Zinc diecast, shielded	Plug left	M12, D-coded, IP67, male contact, straight, plug, Plastic, shielded

Plug, left

Plug left	M12, D-coded, IP67, male contact, straight, plug, Plastic, shielded

Plug, right

Plug right	RJ45, IP20, male contact, straight, plug, Zinc diecast, shielded

Classifications

ETIM 8.0	EC002599	ETIM 9.0	EC002599
ETIM 10.0	EC002599	ECLASS 14.0	27-06-03-08
ECLASS 15.0	27-06-03-08		