

## IE-C5DD4UG0020MCSA20-E

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

[www.weidmueller.com](http://www.weidmueller.com)



Assembled IE cables, PROFINET, Cat. 5, PUR, green, drag-chain compatible, M12-RJ45

### 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, 2 m
Order No.	<a href="#">1044470020</a>
Type	IE-C5DD4UG0020MCSA20-E
GTIN (EAN)	4050118080155
Qty.	1 pc(s).

Creation date March 22, 2021 7:53:12 PM CET

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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

Length	2 m	Length (inches)	78.74 inch
Net weight	166 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
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**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
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**General standards**

Certificate no. (cULus)	E316369
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**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		

**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 mm <sup>2</sup>
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
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**Technical data**

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	
Test voltage: wire-wire-shield	2000 V <sub>eff</sub> , 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/s <sup>2</sup>
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, left**

Connector left	M12 D-code – IP 67 straight pin
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**Plug, right**

Connector right	RJ45 IP 20
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**plug**

Connector left	M12 D-code – IP 67 straight pin	Connector right	RJ45 IP 20
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**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**

Approvals



ROHS	Conform
UL File Number Search	E316369

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Downloads**Approval/Certificate/Document of  
Conformity[PROFINET Manufacturer's Declaration](#)

User Documentation

[MAN IE GUIDE DE](#)[MAN IE GUIDE EN](#)

**Data sheet**

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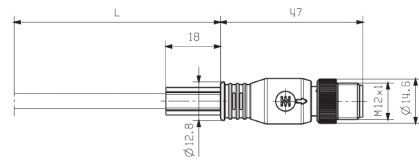
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**Drawings**

**Dimensioned drawing**

RJ45		M12
1	yellow	1
3	white	2
2	orange	3
6	blue	4

**Dimensioned drawing**



**Wiring**

RJ45		M12
1	yellow	1
3	white	2
2	orange	3
6	blue	4