

## IE-C5DD4UG0025MCSMCS-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

### General ordering data

Version	Dragline cable, PROFINET, M12 D-code – IP 67 straight pin, M12 D-code – IP 67 straight pin, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 2.5 m
Order No.	<a href="#">1025950025</a>
Type	IE-C5DD4UG0025MCSMCS-E
GTIN (EAN)	4050118579789
Qty.	1 Stück

Erstellungs-Datum May 24, 2023 1:08:13 PM CEST

Katalogstand 12.05.2023 / Technische Änderungen vorbehalten

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## Technische Daten

### Dimensions and weights

Length	2.5 m	Length (inches)	98.425 inch
Net weight	164.817 g		

### Temperatures

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

### 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		

### 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 - 0.32 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
Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Characteristic impedance	100 ± 15 Ω at 1–100 MHz
Deviation	40 ns/100m
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

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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

Plug	Cable side	left
	Version of contact face	M12
	Coding of plug	D
	Protection degree (IP)	IP67
	Gender of contact	male contact
	Outlet direction	straight
	Version of connector	plug
	Housing main material	Plastic
	Status indicator available	No
	Shielding available	Yes
	Cable side	right
	Version of contact face	M12
	Coding of plug	D
	Protection degree (IP)	IP67
Gender of contact	male contact	
Outlet direction	straight	
Version of connector	plug	
Housing main material	Plastic	
Status indicator available	No	
Shielding available	Yes	
Plug left	M12, D, IP67, male contact, straight, plug, Plastic, shielded	
Plug right	M12, D, IP67, male contact, straight, plug, Plastic, shielded	

### Plug, left

Connector left	M12 D-code – IP 67 straight pin	Plug left	M12, D, IP67, male contact, straight, plug, Plastic, shielded
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### Plug, right

Connector right	M12 D-code – IP 67 straight pin	Plug right	M12, D, IP67, male contact, straight, plug, Plastic, shielded
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### Classifications

ETIM 6.0	EC002599	ETIM 7.0	EC002599
ETIM 8.0	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	ECLASS 12.0	27-06-03-08

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### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	67cf1078-beca-4687-860b-dc475a6ec24a

### Approvals

ROHS	Conform
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### Downloads

Engineering Data	<a href="#">CAD data – STEP</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

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# Zeichnungen

## Wiring

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