

## IE-C5DS4VG0050MCSA20-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, PVC, green, M12  
- RJ45

### General ordering data

Version	System cable, M12 D-code - IP 67 straight pin, RJ45 IP 20, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PVC, 5 m
Order No.	<a href="#">1102200050</a>
Type	IE-C5DS4VG0050MCSA20-E
GTIN (EAN)	4050118005912
Qty.	1 pc(s).

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Catalogue status 03.03.2023 / We reserve the right to make technical changes.

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## Technical data

## Dimensions and weights

Length	5 m	Length (inches)	196.85 inch
Net weight	367 g		

## Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-40 °C...70 °C
Operating temperature, min.	-40 °C	Operating temperature, max.	70 °C
Installation temperature	-40 °C...80 °C		

## Cable specific standards

Standard, additional standards	UL-File E11901 Vol.1 Sec.12 Page 1, UL-File E116441 Vol.1 Sec.6 Page 8	Standard, assembly	UL-Style 21694
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, additional standards	UL-File E11901 Vol.1 Sec.12 Page 1, UL-File E116441 Vol.1 Sec.6 Page 8	Standard, assembly	UL-Style 21694
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	4.05 mm	Filler	As central element
Insulation	PE	Insulation cross-section	1.5 mm
Material sheath	PVC	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		Standard designations	2YY(ST)CY 2x2x0,75/1,5-100 LI VZN GN
Strands	0.13 mm 7	Wire material	Stranded tin-plated copper wire

## Electrical properties of cable

Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)		
Characteristic impedance	100 ± 5 Ω at 100MHz		
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		

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**Technical data**

Signal propagation time	5.3 ns/m
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	good	Halogen	Yes
Min. bending radius, once only	3.5 *diameter	Min. bending radius, repetitive	7.5 x cable diameter
Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1685		

**Plug**

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

**Environmental Product Compliance**

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

**Approvals**

ROHS	Conform
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**Downloads**

User Documentation	<a href="#">MAN IE GUIDE DE</a> <a href="#">MAN IE GUIDE EN</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	<a href="#">FL FIELDWIRING EN</a> <a href="#">PI PROFINET CABLING EN</a>

**Data sheet****IE-C5DS4VG0050MCSA20-E****Weidmüller Interface GmbH & Co. KG**  
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RJ45		M12
1	yellow	1
3	white	2
2	orange	3
6	blue	4