

## IE-C5DS4VG0020MCSA70-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, 2 m
Order No.	<a href="#">1102200020</a>
Type	IE-C5DS4VG0020MCSA70-E
GTIN (EAN)	4050118308273
Qty.	1 items

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## Technical data

### Approvals

ROHS	Conform
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### Dimensions and weights

Length	2 m	Length (inches)	78.7402 inch
Net weight	142.56 g		

### Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-40 °C...70 °C
Installation temperature	-40 °C...80 °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, assembly	UL-Style 21694	Standard, shielding material	DIN EN 13602 Cu-ETP-A..B
Standard, additional standards	UL-File E11901 Vol.1 Sec.12 Page 1, UL-File E116441 Vol.1 Sec.6 Page 8		

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### Cable structure

Strands	7	Sheathing colour	green (RAL 6018)
Standard designations	2YY(ST)CY 2x2x0,75/1,5-100 LI VZN GN	Cross-section	4*AWG 22/7 - 0.32 mm <sup>2</sup>
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	PVC	Filler	As central element
Arrangement of wire cores	Star-quad	Complete shielding	Aluminium foil, Shielding braid made from copper wiring
Overlap of shielding braid	85 %	Wire material	Stranded tin-plated copper wire

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Diameter of inner sheathing	4.05 mm	Sheathing material thickness	0.9 mm
Colour sequence or wires - wire pairs	white, yellow, blue, orange	Shielding braid thickness	0.13 mm

### Electrical properties of cable

Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	Loop resistance	120 Ω/km
Signal propagation time	5.3 ns/m	Test voltage: wire-wire-shield	2000 V <sub>eff</sub> , 50 Hz, 1 min
Operating voltage, UL	600 V	Operating voltage (UL rating)	600 V
Transfer impedance	20 mΩ/m at 10 MHz	Characteristic impedance	100 ± 5 Ω at 100MHz

### Mechanical and material properties of cable

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

### 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		

Drawings

Wiring

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