

IE-C7BS8UG-100**Weidmüller Interfaces GmbH & Co. KG**

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Bulk stock, copper cable, rigid, 4 x 2 x AWG 23/1, Cat. 7,
green

General ordering data

Version	Installation cable, Cat.7 (ISO/IEC 11801), PUR, 100 m
Order No.	8813140000
Type	IE-C7BS8UG-100
GTIN (EAN)	4032248512898
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	100 m	Length (inches)	3937.008 inch
Net weight	6,174 g		

Temperatures

Storage temperature	-40 °C...75 °C	Operating temperature	-40 °C...75 °C
Operating temperature, min.	-40 °C	Operating temperature, max.	75 °C
Installation temperature	-20 °C...60 °C		

Technical specifications for cable

Halogen	halogen-free, according to IEC 60754-2	Insulation	PE
Number of poles	8	Number of wires	8
Resistance to oils	in accordance with IEC 60811-2-1	Resistance to spread of flame	in accordance with IEC 60332-1
Sheathing colour	green (RAL 6018)	Test voltage: wire-wire-shield	700 V AC

Cable specific standards

Corrosiveness of fumes	to IEC 60754-2	Generic communication cable facilities	ISO / IEC 11801:2002, EN 50173-1:2007
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Standards

Corrosiveness of fumes	to IEC 60754-2	Generic communication cable facilities	ISO / IEC 11801:2002, EN 50173-1:2007
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Cable structure

Arrangement of wire cores	Twisted pair	Colour sequence or wires - wire pairs	white - blue, white - orange, white - green, white - brown
Complete shielding	Shielding braid made from copper wiring	Cross-section	4*2*AWG 23/1 - 4*2*0.255 mm ²
Insulation	PE	Insulation cross-section	1.4 mm
Material sheath	PUR	Number of wires	8
Sheath diameter, max.	8 mm	Sheath diameter, min.	7.6 mm
Sheathing colour	green (RAL 6018)	Sheathing material thickness	0.8 mm
Shielding	S/FTP	Shielding braid thickness	0.1 mm
Standard designations	IE-7IC4x2xAWG23/1-PUR 02YSC11Y PIMF, S/FTP	Strands	1
Wire material	Non-insulated copper wire	Wire pair shielding	Aluminium foil

Electrical properties of cable

Capacity at 1 kHz	45 nF/km	Category	Cat.7 (ISO/IEC 11801)
Characteristic impedance	100 ± 5 Ω at 100MHz	Deviation	5 ns/100m
Loop resistance	150 Ω/km	Shield attenuation	85 dB at 600 Mhz
Signal propagation time	4.25 ns/m	Test voltage: wire-wire-shield	700 V AC
Transfer impedance	6 mΩ/m at 1 MHz, 3 mΩ/m at 10 MHz, 3 mΩ/m at 30 MHz		

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Catalogue status 24.01.2023 / We reserve the right to make technical changes.

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Technical data

Mechanical and material properties of cable

Abrasion resistance	very good	Colour	black
Corrosiveness of fumes	to IEC 60754-2	Halogen	halogen-free, according to IEC 60754-2
Min. bending radius, once only	4 x cable diameter	Min. bending radius, repetitive	8 x cable diameter
Pulling force	120 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
UV-resistant	Yes		

Classifications

ETIM 6.0	EC000830	ETIM 7.0	EC003249
ETIM 8.0	EC003249	ECLASS 9.0	27-06-18-05
ECLASS 9.1	27-06-90-90	ECLASS 10.0	27-06-18-01
ECLASS 11.0	27-06-18-01	ECLASS 12.0	27-06-18-01

Approvals

ROHS	Conform
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Downloads

User Documentation	MAN IE GUIDE DE MAN IE GUIDE EN
Catalogues	Catalogues in PDF-format
Brochures	FL FIELDWIRING EN PI PROFINET CABLING EN PI PROFINET CABLING EN

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Drawings

Detailed drawing

