

IE-C5CS8UG-100**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Bulk stock, copper cable, rigid, 4 x 2 x AWG 24/1, Cat. 5,
green

General ordering data

Version	Installation cable, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 100 m
Order No.	8813160000
Type	IE-C5CS8UG-100
GTIN (EAN)	4032248513017
Qty.	1 pc(s).
Packaging	as cable ring in carton

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Technical data

Dimensions and weights

Length	100 m	Length (inches)	3,937.008 inch
Net weight	4,544 g		

Temperatures

Storage temperature	-40 °C...75 °C	Operating temperature	-40 °C...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, EN 13501-6 class FCa
Sheathing colour	green (RAL 6018)	Shielded	Yes
Test voltage: wire-wire-shield	700 V AC		

Cable specific standards

Generic communication cable facilities	EN 50173-1:2007, ISO / IEC 11801:2002	Impervious to smoke	No, Yes
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Standards

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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	Aluminium foil, Shielding braid made from copper wiring	Cross-section	4*2*AWG 24/1 - 4*2*0.205 mm ²
Insulation	PE	Insulation cross-section	1.04 mm
Material sheath	PUR	Number of wires	8
Sheath diameter, max.	6.7 mm	Sheath diameter, min.	6.3 mm
Sheathing colour	green (RAL 6018)	Sheathing material thickness	0.5 mm
Shielding	SF/UTP	Standard designations	IE-5IC4x2xAWG24/1-PUR 02YS(ST)C11Y, SF/UTP
Strands	1	Wire material	Non-insulated copper wire

Electrical properties of cable

Capacity at 1 kHz	50 nF/km	Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)
Characteristic impedance	100 ± 5 Ω at 100MHz	Delay skew	15 ns/100m
Loop resistance	190 Ω/km	Shield attenuation	65 dB at 100 Mhz
Signal propagation time	4.5 ns/m	Test voltage: wire-wire-shield	700 V AC
Transfer impedance	20 mΩ/m at 1MHz, 10 mΩ/m at 10 MHz, 10 mΩ/m at 30Mhz		

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Technical data

Mechanical and material properties of cable

Abrasion resistance	very good	Colour	green
Halogen	halogen-free, according to IEC 60754-2	Impervious to smoke	No, Yes
Min. bending radius, once only	5 x cable diameter	Min. bending radius, repetitive	10 x cable diameter
Resistance to oils	in accordance with IEC 60811-2-1	Resistance to spread of flame	in accordance with IEC 60332-1, EN 13501-6 class FCa

Classifications

ETIM 6.0	EC000830	ETIM 7.0	EC003249
ETIM 8.0	EC003249	ETIM 9.0	EC003249
ETIM 10.0	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
ECLASS 13.0	27-06-18-01	ECLASS 14.0	27-06-18-01
ECLASS 15.0	27-06-18-01		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

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

