

**Industrial Ethernet
IE-C5ES8VG0010M40M40-G****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

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Germany

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www.weidmueller.com



Assembled cables, patch cable Cabinet Line, Cat. 5, PVC,
green

General ordering data

Type	IE-C5ES8VG0010M40M40-G
Order No.	1166020010
Version	System cable, RJ45 IP 20, RJ45 IP 20, Cat.5 (ISO/ IEC 11801), PVC, 1 m
GTIN (EAN)	4032248956814
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	1 m	Length (inches)	0.039 inch
Net weight	55 g	Insulation cross-section	0.98 mm

Temperatures

Operating temperature, max.	75 °C	Operating temperature, min.	-40 °C
Operating temperature	-40 °C...75 °C		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Cable specific standards

Generic communication cable facilities	ISO / IEC 11801:2002, EN 50173-1:2007	Standard, assembly	UL-Style 2879 (80°C/30V)
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		

Electrical properties

Insulation strength	5000 MΩ	Operating voltage	100 V
PoE / PoE+	conforming to IEEE 802.3at		

General standards

Connector standard	IEC 60603-7-51
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Cable structure

Wire material	Stranded tin-plated copper wire	Standard designations	LI02YSCY 4X2X0.15 PIMF GN, SF/UTP
Strands	7	Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm ²
Insulation	PE	Insulation cross-section	0.98 mm
Wire core insulation thickness	0.25 mm	Number of wires	8
Arrangement of wire cores	Twisted pair	Diameter of wire pair	2.4 mm
Wire pair shielding		Colour sequence or wires - wire pairs	white/blue - blue, white/ orange - orange, white/ green - green, white/ brown - brown
Shielding	Aluminium foil, Plastic foil	Complete shielding	Shielding braid made from copper wiring
	SF/UTP	Overlap of shielding braid	70 %
Shielding braid thickness	0.1 mm	Sheath diameter, min.	5.4 mm
Material sheath	PVC	Sheathing material thickness	0.5 mm
Sheath diameter, max.	5.8 mm		
Sheathing colour	green (RAL 6018)		

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Electrical properties of cable

Category	Cat.5 (ISO/IEC 11801)	Operating voltage	100 V
Operating voltage (UL rating)	30 V undefined	Test voltage: wire-wire-shield	750 V DC, 1 min
Characteristic impedance	100 ± 5 Ω at 100MHz	Loop resistance	150 Ω/km
Deviation	25 ns/100m	Resistance differential	3 %
Transfer impedance	15 mΩ/m at 1 MHz, 20 mΩ/m at 10 MHz, 30 mΩ/m at 30 MHz	Shield attenuation	55 dB at 30–600 MHz
Insulation strength	5000 MΩ	Capacity at 1 kHz	48 nF/km
Signal propagation time	5.13 ns/m		

Mechanical and material properties of cable

Min. bending radius, once only	5 x cable diameter	Min. bending radius, repetitive	10 x cable diameter
Abrasion resistance	good	Resistance to spread of flame	in accordance with IEC 60332-1

plug

Connector left	RJ45 IP 20	Connector right	RJ45 IP 20
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Classifications

ETIM 6.0	EC002599	ETIM 7.0	EC002599
eClass 9.0	27-06-03-08	eClass 9.1	27-06-03-08
eClass 10.0	27-06-03-08	UNSPSC	26-12-16-06

Approvals

ROHS	Conform
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Downloads

Brochure/Catalogue	CAT 9 IETH 18/19 EN FL FIELDWIRING EN PI PROFINET CABLING EN
Product Change Notification	PCN-PB47-20180213-00-A_EN PCN-PB47-20180213-00-A_DE
User Documentation	MAN IE GUIDE DE MAN IE GUIDE EN

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Drawings

Wiring

RJ45	1	white, orange	1	RJ45
	2	orange	2	
	3	white, green	3	
	4	blue	4	
	5	white, blue	5	
	6	green	6	
	7	white, brown	7	
	8	brown	8	