

Industrial Ethernet IE-C5ES8VG0200M40M40-G

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
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Germany
Fon: +49 5231 14-0
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Assembled cables, patch cable Cabinet Line, Cat. 5, PVC,
green

General ordering data

Type	IE-C5ES8VG0200M40M40-G
Order No.	1166020200
Version	System cable, RJ45 IP 20, RJ45 IP 20, Cat.5 (ISO/IEC 11801), PVC, 20 m
GTIN (EAN)	4032248956883
Qty.	1 pc(s).

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Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

Length	20 m	Length (inches)	0.787 inch
Net weight	823 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 60603-7-5 1
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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	Aluminium foil, Plastic foil	Colour sequence or wires - wire pairs	white/blue - blue, white/ orange - orange, white/ green - green, white/ brown - brown
Shielding	SF/UTP	Complete shielding	Shielding braid made from copper wiring
Shielding braid thickness	0.1 mm	Overlap of shielding braid	70 %
Material sheath	PVC	Sheath diameter, min.	5.4 mm
Sheath diameter, max.	5.8 mm	Sheathing material thickness	0.5 mm
Sheathing colour	green (RAL 6018)		

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Technical data
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

Data sheet**Industrial Ethernet
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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	

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Accessories

Blank



TM-I is an acknowledged and accredited marker type for traffic engineering applications. There are five different tag lengths available for individual labelling with long character strings. Easy handling of separation and installation thanks to the project marker field. Pre-attachment of sleeves and retrofitting of tags offer excellent versatility

The special contour of TM-I allows easy assembly and secures firm positioning. They are compatible with a number of commercially available sleeves. Thanks to the MultiCard format, the tags can be printed quickly and conveniently with the SMark laser printer, PrintJet ADVANCED, plotter, MC-Mobilo or the STI pen.

- Easy handling of separation and installation thanks to the project marker field.
- Acknowledged and accredited marker for traffic engineering applications
- Pre-attachment of sleeves and retrofitting of tags offer excellent versatility
- Not suited for labelling with P-Ink or STI pen in connection with CLI T sleeves

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	TM-I 18 MC NE WS	Version
Order No.	1718431044	TM-I, Insert markers, 18 x 4 mm, white
GTIN (EAN)	4008190349011	
Qty.	320 pc(s).	

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General ordering data

Type	TM-I 12 MC NE WS	Version
Order No.	1718411044	TM-I, Insert markers, 12 x 4 mm, white
GTIN (EAN)	4008190348977	
Qty.	320 pc(s).	