

**Industrial Ethernet
IE-C5ES8UG0020P41P41-E**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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Assembled IE cables for EtherNet/IP applications with bayonet connector according to IEC 61076-3-106 var. 1, cat. 5, sheathed

General ordering data

Available until	2013-12-06
Type	IE-C5ES8UG0020P41P41-E
Order No.	1106020000
Version	System cable, RJ45 IP 67 Baymo V01 plastic, RJ45 IP 67 Baymo V01 plastic, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PUR, 2 m
GTIN (EAN)	4032248881291
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Length	2 m	Length (inches)	0.079 inch
Net weight	144 g	Insulation cross-section	1 mm

Temperatures

Operating temperature, max.	80 °C	Operating temperature, min.	-40 °C
Storage temperature, max.	80 °C	Storage temperature, min.	-40 °C
Operating temperature	-40 °C...80 °C	Storage temperature	-40 °C...80 °C
Installation temperature	-10 °C...60 °C		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Standards

Corrosiveness of fumes	to IEC 60754-2	Generic communication cable facilities	ISO / IEC 11801:2002, EN 50173-1:2007
Connector standard	IEC 61076-3-106 Var. 1, IEC 60603-7-51	Standard, assembly	UL-Style 20963 (80°C/30V)
Certificate no. (cULus)	E316369		

Cable structure

Wire material	Stranded tin-plated copper wire	Standard designations	LI02YS(ST)C11Y 4x2x0.15-100 GN NC, SF/UTP
Strands	7	Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm ²
Insulation	PE	Insulation cross-section	1 mm
No. of wires	8	Arrangement of wire cores	Twisted pair
Colour sequence or wires - wire pairs	white - blue, white - orange, white - green, white - brown	Shielding	SF/UTP
Complete shielding	Aluminium foil, Shielding braid made from copper wiring	Shielding braid thickness	0.1 mm
Material sheath	PUR	Sheath diameter, min.	5.7 mm
Sheath diameter, max.	6.1 mm	Sheathing colour	green (RAL 6018)

Electrical properties of cable

Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	Test voltage: wire-wire-shield	700 V AC
Characteristic impedance	100 ± 5 Ω at 100MHz	Loop resistance	290 Ω/km
Deviation	25 ns/100m	Capacity at 1 kHz	50 nF/km
Signal propagation time	4.85 ns/m		

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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	very good	Resistance to spread of flame	in accordance with IEC 60332-1
Resistance to oils	in accordance with IEC 60811-2-1	UV-resistant	Yes
Silicone-free	Yes	Halogen	halogen-free, according to IEC 60754-2
Corrosiveness of fumes	to IEC 60754-2		

plug

Connector left	RJ45 IP 67 Baymo V01 plastic	Connector right	RJ45 IP 67 Baymo V01 plastic
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Classifications

ETIM 3.0	EC001262	ETIM 4.0	EC001262
ETIM 5.0	EC001262	ETIM 6.0	EC002599
UNSPSC	26-12-16-06	eClass 5.1	27-06-18-02
eClass 6.2	27-06-03-90	eClass 7.1	27-06-03-90
eClass 8.1	27-06-03-90	eClass 9.0	27-06-03-08
eClass 9.1	27-06-03-08		

Approvals

Approvals



ROHS Conform

Downloads

Brochure/Catalogue	CAT 9 IETH 15/16 EN FL FIELDWIRING EN PI PROFINET CABLING EN
Engineering Data	WSCAD
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	Order No.	Version	GTIN (EAN)	Qty.
TM-I 12 MC	1718411044	TM-I, Insert markers, 12 x 4	4008190348977	320 pc(s).
NE WS		mm, white		

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General ordering data

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