

Industrial Ethernet
IE-C5ES8VG0020M40M40-G

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

General ordering data

Type	IE-C5ES8VG0020M40M40-G
Order No.	1166020020
Version	System cable, RJ45 IP 20, RJ45 IP 20, Cat.5 (ISO/IEC 11801), PVC, 2 m
GTIN (EAN)	4032248956838
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Length	2 m	Length (inches)	0.079 inch
Net weight	95 g	Insulation cross-section	0.98 mm

Temperatures

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

Electrical properties

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

Standards

Generic communication cable facilities	ISO / IEC 11801:2002, EN 50173-1:2007	Connector standard	IEC 60603-7-51
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, wire material	DIN EN 13602 Cu-ETP-A	Standard, shielding material	DIN EN 13602 Cu-ETP-A..B

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	No. 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
Shielding braid thickness	SF/UTP	Overlap of shielding braid	70 %
Material sheath	0.1 mm	Sheath diameter, min.	5.4 mm
Sheath diameter, max.	PVC	Sheathing material thickness	0.5 mm
Sheathing colour	5.8 mm		
	green (RAL 6018)		

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 resistance	5000 MΩ	Capacity at 1 kHz	48 nF/km
Signal propagation time	5.13 ns/m		

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Data sheet

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Mechanical and material properties of cable

Min. bending radius, once only	5 *diameter	Min. bending radius, repetitive	10 *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 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	27-06-18-01
eClass 8.1	27-06-18-01	eClass 9.0	27-06-18-01
eClass 9.1	27-06-03-08		

Approvals

ROHS	Conform
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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	
