

**Industrial Ethernet**  
**IE-C5ES8VG0150M40M40-G**

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

**General ordering data**

Type	IE-C5ES8VG0150M40M40-G
Order No.	<a href="#">1166020150</a>
Version	System cable, RJ45 IP 20, RJ45 IP 20, Cat.5 (ISO/IEC 11801), PVC, 15 m
GTIN (EAN)	4032248956876
Qty.	1 pc(s).

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## Technical data

### Dimensions and weights

Length	15 m	Length (inches)	0.591 inch
Net weight	565 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 <sup>2</sup>
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**

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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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