

IE-C5ES8VG0020M40M40-G**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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

General ordering data

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

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Technical data

Dimensions and weights

Length	2 m	Length (inches)	78.74 inch
Net weight	95 g		

Temperatures

Operating temperature	-40 °C...75 °C
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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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Standards

Connector standard	IEC 60603-7-5 1	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

Cable structure

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

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Electrical properties of cable

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

Mechanical and material properties of cable

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

Plug, left

Connector left	RJ45 IP 20
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Plug, right

Connector right	RJ45 IP 20
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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	ECLASS 11.0	27-06-03-08

Approvals

Approvals



ROHS

Conform

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Technical data

Downloads

Engineering Data	STEP
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	

Dimensioned drawing

