

## IE-C5ES8VG0020M40M40-G

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://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.	<a href="#">1166020020</a>
Type	IE-C5ES8VG0020M40M40-G
GTIN (EAN)	4032248956838
Qty.	1 items

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## Technical data

## Approvals

Approvals



ROHS Conform

## Dimensions and weights

Length	2 m	Length (inches)	78.7402 inch
Net weight	82.72 g		

## Temperatures

Storage temperature	Operating temperature	-40 °C...75 °C
Installation temperature		

## Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

## Cable specific standards

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, assembly	UL-Style 2879 (80°C/30V)	Standard, shielding material	DIN EN 13602 Cu-ETP-A..B
Generic communication cable facilities	ISO / IEC 11801:2002, EN 50173-1:2007		

## Electrical properties

PoE / PoE+	conforming to IEEE 802.3at
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## General standards

Connector standard	IEC 60603-7-51
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## Standards

Standard, insulating material	DIN EN 50290-2-23 (VDE 0819) Table 2/A (HD 624.3)	Connector standard	IEC 60603-7-51
Standard, wire material	DIN EN 13602 Cu-ETP-A	Standard, assembly	UL-Style 2879 (80°C/30V)
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## Cable structure

Strands	7	Sheathing colour	green (RAL 6018)
Standard designations	LI02YSCY 4X2X0.15 PIMF GN, SF/UTP	Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup>
Shielding	SF/UTP	Number of wires	8
Insulation cross-section	0.98 mm	Insulation	PE

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Sheath diameter, max.	5.8 mm	Sheath diameter, min.	5.4 mm
Material sheath	PVC	Wire pair shielding	Aluminium foil, Plastic foil
Arrangement of wire cores	Twisted pair	Wire core insulation thickness	0.25 mm
Complete shielding	Shielding braid made from copper wiring	Diameter of wire pair	2.40 mm
Overlap of shielding braid	70 %	Wire material	Stranded tin-plated copper wire
Sheathing material thickness	0.5 mm	Colour sequence or wires - wire pairs	white/blue - blue, white/ orange - orange, white/ green - green, white/ brown - brown
Shielding braid thickness	0.1 mm		

### Electrical properties of cable

Transmission rate	10/100 MBit/s, 1000 MBit/s	Category	Cat.5 (ISO/IEC 11801)
Capacity at 1 kHz	48 nF/km	Loop resistance	150 Ω/km
Signal propagation time	5.13 ns/m	Test voltage: wire-wire-shield	750 V DC, 1 min
Resistance differential	3 %	Operating voltage, UL	30 V
Shield attenuation	55 dB at 30–600 MHz	Delay skew	25 ns/100m
Operating voltage (UL rating)	30 V	Transfer impedance	15 mΩ/m at 1 MHz, 20 mΩ/m at 10 MHz, 30 mΩ/m at 30 MHz
Characteristic impedance	100 ± 5 Ω at 100MHz		

### Mechanical and material properties of cable

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

### Plug

Plug right	RJ45, IP20, male contact, straight, plug, Plastic, shielded	Plug left	RJ45, IP20, male contact, straight, plug, Plastic, shielded
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### Plug, left

Plug left	RJ45, IP20, male contact, straight, plug, Plastic, shielded
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### Plug, right

Plug right	RJ45, IP20, male contact, straight, plug, Plastic, shielded
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### Classifications

ETIM 8.0	EC002599	ETIM 9.0	EC002599
ETIM 10.0	EC002599	ECLASS 14.0	27-06-03-08
ECLASS 15.0	27-06-03-08		

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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

