

## IE-C6ES8VG0420A40A40-E

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

[www.weidmueller.com](http://www.weidmueller.com)



### General ordering data

Version	System cable, RJ45 IP 20, RJ45 IP 20, Cat.6A / Class EA (ISO/IEC 11801 2010), PVC, 42 m
Order No.	<a href="#">8903620420</a>
Type	IE-C6ES8VG0420A40A40-E
GTIN (EAN)	4050118452105
Qty.	1 pc(s).

Creation date March 13, 2023 2:27:55 PM CET

Catalogue status 03.03.2023 / We reserve the right to make technical changes.

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## Technical data

### Dimensions and weights

Length	42 m	Length (inches)	1,653.543 inch
Net weight	2,062 g		

### Temperatures

Storage temperature	-40 °C...75 °C	Operating temperature	-40 °C...80 °C
Operating temperature, min.	-40 °C	Operating temperature, max.	80 °C
Installation temperature	0 °C...50 °C		

### 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		

### Cable structure

Arrangement of wire cores	Twisted pair	Colour sequence or wires - wire pairs	white - blue, white - orange, white - green, white - brown
Complete shielding	Shielding braid made from copper wiring	Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm <sup>2</sup>
Insulation	PE	Insulation cross-section	0.98 mm
Material sheath	PVC	Number of wires	8
Overlap of shielding braid	70 %	Sheath diameter, max.	6.5 mm
Sheath diameter, min.	6.1 mm	Sheathing colour	green (RAL 6018)
Sheathing material thickness	0.5 mm	Shielding	S/FTP
Shielding braid thickness	0.1 mm	Standard designations	S/FTP, LI02YSCY 4X2X0.15 PIMF GN
Strands	7	Wire core insulation thickness	0.25 mm
Wire material	Stranded tin-plated copper wire	Wire pair shielding	Plastic foil, Aluminium foil

### Electrical properties of cable

Capacity at 1 kHz	45 nF/km	Category	Cat.6A / Class EA (ISO/IEC 11801 2010)
Characteristic impedance	100 ± 5 Ω at 100MHz	Deviation	3 ns/100m
Loop resistance	290 Ω/km	Resistance differential	3 %
Shield attenuation	80 dB at 600 Mhz	Signal propagation time	5.13 ns/m
Test voltage: wire-wire-shield	700 V AC	Transfer impedance	15 mΩ/m at 1 MHz, 10 mΩ/m at 10 MHz, 30 mΩ/m at 30 MHz

### Mechanical and material properties of cable

Abrasion resistance	good	Halogen	Yes
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		

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**Technical data****Plug**

Plug left	RJ45, IP20, male contact, straight, Plastic, shielded	Plug right	RJ45, IP20, male contact, straight, Plastic, shielded
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**Classifications**

ETIM 6.0	EC002599	ETIM 7.0	EC002599
ETIM 8.0	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	ECLASS 12.0	27-06-03-08

**Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1
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**Approvals**

ROHS	Conform
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**Downloads**

Engineering Data	<a href="#">CAD data – STEP</a>
User Documentation	<a href="#">MAN IE GUIDE DE</a> <a href="#">MAN IE GUIDE EN</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	<a href="#">FL FIELDWIRING EN</a> <a href="#">PI PROFINET CABLING EN</a>