

IE-C6ES8VG0420A40A40-E**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Industrial Ethernet connection technology by Weidmüller offers the optimal solution for the infrastructure of your machine, system or factory. All connection technology is available from one source.

The benefits for you:

- IEC-standardised connectors, in the variants 1, 4, 5 , 6 and 14
- consistently Cat. 6_A with **STEADYTEC®** technology
- in IP20 and IP67
- all relevant industrial connections: RJ45, SC, ...
- comprehensive range of accessories

General ordering data

Version	System cable, RJ45 IP 20, RJ45 IP 20, Cat.6 _A / Class E _A (ISO/IEC 11801 2010), PVC, 42 m
Order No.	8903620420
Type	IE-C6ES8VG0420A40A40-E
GTIN (EAN)	4050118452105
Qty.	1 pc(s).

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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...80 °C	Operating temperature	-40 °C...80 °C
Installation temperature	-15 °C...60 °C		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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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
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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 mm²
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.	6.7 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	48 nF/km	Category	Cat.6A / Class EA (ISO/IEC 11801 2010)
Characteristic impedance	100 ± 5 Ω at 100MHz	Deviation	25 ns/100m
Insulation strength	5000 MΩ	Loop resistance	150 Ω/km
Resistance differential	3 %	Shield attenuation	55 dB at 30–600 MHz
Signal propagation time	5.13 ns/m	Test voltage: wire-wire-shield	700 V AC
Transfer impedance	15 mΩ/m at 1 MHz, 20 mΩ/m at 10 MHz, 30 mΩ/m at 30 MHz		

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Technical data**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

Connector left	RJ45 IP 20	Connector right	RJ45 IP 20
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Rating

Insulation strength	5000 MΩ
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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

ROHS	Conform
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Downloads

Engineering Data	STEP
User Documentation	MAN IE GUIDE DE MAN IE GUIDE EN