Data sheet

IE-C6ES8VG0420A40A40-E

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

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.	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...75 °C	Operating temperature	-40 °C...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 mm²
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	Delay skew	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	Cable side	left
	Version of contact face	RJ45
	Protection degree (IP)	IP20
	Gender of contact	male contact
	Outlet direction	straight
	Housing main material	Plastic
	Status indicator available	No
	Shielding available	Yes
	Cable side	right
	Version of contact face	RJ45
	Protection degree (IP)	IP20
	Gender of contact	male contact
	Outlet direction	straight
	Housing main material	Plastic
	Status indicator available	No
	Shielding available	Yes
Plug left	RJ45, IP20, male contact, straight, Plastic, shielded	
Plug right	RJ45, IP20, male contact, straight, Plastic, shielded	

Classifications

ETIM 6.0	EC002599	ETIM 7.0	EC002599
ETIM 8.0	EC002599	ETIM 9.0	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	ECLASS 13.0	27060308

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1

Approvals

Approvals	CE
ROHS	Conform

Downloads

Engineering Data	CAD data – STEP
User Documentation	MAN IE GUIDE DE MAN IE GUIDE EN
Catalogues	Catalogues in PDF-format
Brochures	FL FIELDWIRING EN PI PROFINET CABLING EN