Data sheet

IE-C7ES8VG-100

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

www.weidmueller.com



Bulk stock, copper cable, flexible, Cat. 7

General ordering data

Version	System cable, Cat.7 (ISO/IEC 11801), PVC, 100 m
Order No.	8813170000
Type	IE-C7ES8VG-100
GTIN (EAN)	4032248513024
Qty.	1 items
Packaging	as cable ring in carton

Data sheet

IE-C7ES8VG-100

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

www.weidmueller.com

Technical data

Approvals

Approvals	
ROHS	Conform

Dimensions and weights

Length	100 m	Length (inches)	3937.0079 inch
Net weight	4210 g		

Temperatures

Storage temperature	-40 °C...75 °C	Operating temperature	-40 °C...75 °C
Installation temperature	0 °C...50 °C		

Environmental Product Compliance

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

Technical specifications for cable

Sheathing colour	green (RAL 6018)	Resistance to oils	No
Number of wires	8	Shielded	Yes
Halogen	yes (PVC cable)	Insulation	PE
Resistance to spread of flame	in accordance with IEC 60332-1	Test voltage: wire-wire-shield	700 V AC
Number of poles	8		

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	Impervious to smoke	No

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	Impervious to smoke	No

Cable structure

Strands	7	Sheathing colour	green (RAL 6018)
Standard designations	S/FTP, IE-7CC4x2xAWG26/7-PVC LI02YSCY PIMF	Cross-section	4*2*AWG 26/7 - 4*2*0.128 mm²

IE-C7ES8VG-100

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

www.weidmueller.com

Technical data

	E130266 (UL) AWM STYLE 2879 80°C 30V		
Shielding	S/FTP	Number of wires	8
Insulation cross-section	1.04 mm	Insulation	PE
Sheath diameter, max.	6.5 mm	Sheath diameter, min.	6.1 mm
Material sheath	PVC	Type of wire pair shielding	Plastic foil, Aluminium foil
Arrangement of wire cores	Twisted pair	Wire core insulation thickness	0.25 mm
Complete shielding	Shielding braid made from copper wiring	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, white - orange, white - green, white - brown	Shielding braid thickness	0.1 mm

Electrical properties of cable

Category	Cat.7 (ISO/IEC 11801)	Capacity at 1 kHz	45 nF/km
Loop resistance	290 Ω/km	Signal propagation time	4.5 ns/m
Test voltage: wire-wire-shield	700 V AC	Resistance differential	3 %
Shield attenuation	80 dB at 600 Mhz	Delay skew	3 ns/100m
Transfer impedance	15 mΩ/m at 1 MHz, 10 mΩ/m at 10 MHz, 30 mΩ/m at 30 MHz	Characteristic impedance	100 ± 5 Ω at 100MHz

Mechanical and material properties of cable

Resistance to oils	No	UV-resistant	No
Halogen	yes (PVC cable)	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	Impervious to smoke	No

Classifications

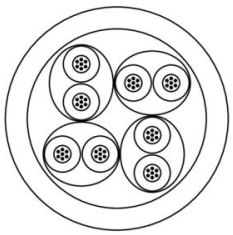
ETIM 8.0	EC003249	ETIM 9.0	EC003249
ETIM 10.0	EC003249	ECLASS 14.0	27-06-18-01
ECLASS 15.0	27-06-18-01		

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

www.weidmueller.com

Drawings

Detailed drawing



IE-C7ES8VG-100

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

www.weidmueller.com

Accessories

Tools



Sheathing stripper for PVC cables

General ordering data

Type	AM 12	Version
Order No.	9030060000	Tools, Sheathing strippers
GTIN (EAN)	4008190337827	
Qty.	1 ST	
Type	IE-CST	Version
Order No.	9204350000	Tools, Sheathing strippers
GTIN (EAN)	4032248653072	
Qty.	1 ST	