

**Industrial Ethernet
IE-C5AS4V1000**

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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Germany
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Bulk stock, copper cable, PROFINET, type A, PVC, rigid,
green

General ordering data

Type	IE-C5AS4V1000
Order No.	8899000000
Version	Installation cable, PROFINET, Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B), PVC, 100 m
GTIN (EAN)	4032248649372
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Length	100 m	Length (inches)	3.937 inch
Net weight	6,430 g	Insulation cross-section	1.5 mm

Temperatures

Operating temperature, max.	75 °C	Operating temperature, min.	-40 °C
Storage temperature, max.	75 °C	Storage temperature, min.	-40 °C
Operating temperature	-40 °C...75 °C	Storage temperature	-40 °C...75 °C
Installation temperature	-20 °C...60 °C		

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Electrical properties

Insulation strength	500,000 Ω
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Standards

Standard, assembly	UL-Style 21694	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, shielding material	DIN EN 13602 Cu-ETP-A..B
Standard, additional standards	UL-File E11901 Vol.3 Sec.1 Page 2 Verified Cat. 5e, UL-File E116441 Vol.1 Sec.6 Page 8, UL-File E306668 Vol.1 Sec.3 Page 1		

Cable structure

Wire material	Non-insulated copper wire	Standard designations	2YY(ST)CY 2x2x0,64/1,5-100 GN
Strands	1	Cross-section	4*AWG 22/1 - 0.33 mm ²
Insulation	PE	Insulation cross-section	1.5 mm
Wire core insulation thickness	0.43 mm	Arrangement of wire cores	Star-quad
Colour sequence or wires - wire pairs	white, yellow, blue, orange	Diameter of inner sheathing	3.9 mm
Filler	As central element	Shielding	SF/UTP
Complete shielding	Aluminium foil, Shielding braid made from copper wiring	Shielding braid thickness	0.13 mm
Overlap of shielding braid	90 %	Material sheath	PVC
Sheath diameter, min.	6.3 mm	Sheath diameter, max.	6.7 mm
Sheathing material thickness	0.9 mm	Sheathing colour	green (RAL 6018)

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Technical data**Electrical properties of cable**

Category	Cat.5 (ISO/IEC 11801) / Cat.5e (TIA T568-B)	Operating voltage (UL rating)	600 V undefined
Test voltage: wire-wire-shield	2000 V _{eff} , 50 Hz, 1 min	Characteristic impedance	100 ± 15 Ω at 1–100 MHz
Loop resistance	115 Ω/km	Deviation	40 ns/100m
Resistance differential	3 %	Transfer impedance	10 mΩ/m at 10 MHz
Insulation strength	500,000 Ω	Capacity at 1 kHz	52 nF/km
Signal propagation time	5.3 ns/m		

Mechanical and material properties of cable

Min. bending radius, once only	3.5 *diameter	Min. bending radius, repetitive	7.5 x cable diameter
Abrasion resistance	good	Resistance to spread of flame	in accordance with IEC 60332-1 / UL 1685

Classifications

ETIM 3.0	EC001262	ETIM 4.0	EC001262
ETIM 5.0	EC001262	ETIM 6.0	EC000830
UNSPSC	26-12-16-04	eClass 5.1	27-06-19-01
eClass 6.2	27-06-91-90	eClass 7.1	27-06-91-90
eClass 8.1	27-06-03-08	eClass 9.0	27-06-18-05
eClass 9.1	27-06-90-90		

Approvals

ROHS	Conform
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Downloads

Brochure/Catalogue	CAT 9 IETH 15/16 EN FL FIELDWIRING EN PI PROFINET CABLING EN
User Documentation	MAN IE GUIDE DE MAN IE GUIDE EN

Data sheet

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Drawings

Detailed drawing

