

Technical data sheet

PVC Network cables · ETHERNET · shielded

LÜTZE ELECTRONIC ETHERNET (C) PVC

Cat. 7, Profinet Type B



Identification

Type	EL ET (C) PVC (4×(2×AWG23/7))St)C Cat7
Part No.	104110
Profinet Type	Type B

Product version

Datasheet version	00
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Use/Application/Properties

Application	• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol • Suitable for static laying and slight movement of machine components (not C-track)
Properties	• High protection against electromagnetic interferences (EMI) • Silicone free • Flame retardant

Construction

Ethernet Key	S/FTP
Description	ELECTRONIC ETHERNET (C) PVC
Number of conductors/cross-section	(4×(2×AWG23/7)St)C
Number of conductors	8
Cross-section, metric	0.27 mm ²
Cross-section AWG	AWG 23
Jacket material	PVC
Jacket color	green similar to RAL 6018
Outer Ø	8.7 mm
Weight	10.1 kg/100 m
Cu-Index	5 kg/100 m

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Construction Element 1

Element construction	(2×AWG23/7)
Conductor construction	AWG 23/7
Conductor	AWG conductor CU-wire tin-plated
Conductor marking standard	ISO IEC 11801
Conductor insulation	Foamed TPE
Stranding	Conductors stranded in pairs Conductors twisted without mechanical stress
Element shielding	Foil shield

Overall construction

Overall stranding	Conductors layered construction
Overall shield	Braid shield Tinned copper wires Optical cover approx. 85 %

Technical data

Rated voltage	300 V
Test voltage type	AC 2000 V
Temperature according to UL	80 °C
Temperature range moving	-10 °C ... +70 °C
Temperature range fixed	-40 °C ... +80 °C
Minimum bending radius moving	8×D
Minimum bending radius fixed	4×D
Category	Cat.7

Technical Data Element 1

Element construction	(2×AWG23/7)
Insulation resistance at 20 °C	5000 MΩ×km
Operating capacitance wire-wire	50 pF/m
Loop resistance	≤138.4 mΩ/m
Impedance	100 Ω
HF Characteristics according to	IEC 61156-5

Certifications/Standards

Certifications	cURus UL 758 - AWM
UL style	AWM 2095
Conformity	CE RoHS REACH
Burning behavior according to	UL 1581 sec. 1100 HFT/FT2 acc. to UL 2556 sec. 9.1 IEC 60332-1-2

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General

Note

CE These products are in conformity with the EU Low Voltage Directive 2014/35/EU