

Technical data sheet

PVC Network cables · ETHERNET · shielded

LÜTZE ELECTRONIC ETHERNET (C) PVC



Identification

Type EL ET (C) PVC (2×2×AWG22/7)StC Cat5e
Part No. [104197](#)

Product version

Datasheet version 06

Use/Application/Properties

- | | |
|-------------|--|
| Application | <ul style="list-style-type: none">• For wiring of industrial field bus systems with the globally accepted TCP/IP protocol• For fixed installation or moving use without compulsory guide in the automation technology, transport and conveyor technology, machine tool manufacture• Cable design for harsh industrial environments and operating conditions with high noise levels• Application in automation technology, transport and conveyor technology, machine tool manufacture• Compliant with NFPA 79 requirements |
| Properties | <ul style="list-style-type: none">• High protection against electromagnetic interferences (EMI)• Talc free and silicone free• RoHS compliant• Specially formulated jacket for oil resistance |

Construction

Ethernet Key	SF/UTP
Description	ELECTRONIC ETHERNET (C) PVC
Number of conductors/cross-section	(2×2×AWG22/7)
Number of conductors	4
Cross-section AWG	AWG 22
Jacket material	PVC
Jacket color	teal similar to RAL 5018
Outer Ø	7.5 mm
Outer Ø	0.295 inch
Surface	adhesion-free
Weight	6.4 kg/100 m
Weight	43 Lbs/Mft
Cu Index	2.97 kg/100 m

USA: LUTZE INC.

13330 South Ridge Drive • Charlotte, NC 28273, USA
Tel. +1 (704) 504-0222
www.lutze.com • info@lutze.com

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Cu Index 20 Lbs/Mft

Construction Element 1

Element construction	(2×2×AWG22/7)
Conductor construction	AWG 22/7
Conductor	AWG conductor CU-wire tin-plated
Conductor marking standard	ISO IEC 11801
Conductor insulation	Special Polyolefin
Cabling	Conductors twisted in pairs

Overall construction

Overall shield	Aluminium-laminated film shield Braid shield Tinned copper wires Optical cover approx. 85 %
Jacket characteristics	Flame-retardant Oil resistant Silicone free

Technical data

Rated voltage	300 V
Rated voltage U_N	600 V AWM 2570 300 V PLTC
Test voltage type	AC 1500 V
Temperature according to UL	80 °C
Temperature range moving	-5 °C ... +70 °C
Temperature range fixed	-30 °C ... +80 °C
Minimum bending radius moving	12×cable OD
Minimum bending radius fixed	6×cable OD

Technical Data Element 1

Element construction	(2×2×AWG22/7)
Insulation resistance at 20 °C	≥5000 MΩ×km
Operating capacitance wire-wire	approx.50 pF/m
Loop resistance	≤114.8 mΩ/m
Impedance	nom.100 Ω

Approvals/Standards

Approvals	cULus CMR CMX Outdoor PLTC cURus Class I and II, Div. 2 Class 1 Div. 2 per NEC 501, 502, 505
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UL style	AWM 2570
Conformity	CE RoHS REACH TSCA
Burning behavior according to	DIN EN 60332-1-2 DIN EN 60332-3-24 UL 1685 UL FT4
Oil resistant according to	Oil Res I

General

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