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	• 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	• 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

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Surface	adhesion-free
Weight	6.4 kg/100 m
Weight	43 Lbs/Mft
Cu-Index	2.97 kg/100 m
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
Stranding	Conductors stranded 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×D
Minimum bending radius fixed	6×D

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

Certifications/Standards

Certifications	cULus CMR CMX Outdoor PLTC cURus Class I and II, Div. 2 Class 1 Div. 2 per NEC 501, 502, 505
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