Technical data sheet

PVC Network cables · ETHERNET · shielded

LÜTZE ELECTRONIC ETHERNET (C) PVC
Cat. 6_A, Profinet Type A

Identification

Type	EL ET (C) PVC (4×(2×AWG22/1)St)C Cat6A
Part No.	104397
Profinet Type	Type A

Product version

Datasheet version	00

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 • Flame retardant

Construction

Ethernet Key	S/FTP
Description	ELECTRONIC ETHERNET (C) PVC
Number of conductors/cross-section	(4×(2×AWG22/1)St)C
Number of conductors	8
Cross-section, metric	0.34 mm²
Cross-section AWG	AWG 22
Jacket material	PVC
Jacket color	green similar to RAL 6018

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Outer Ø	9.6 mm
Outer Ø	0.378 inch
Surface	adhesion-free
Weight	9.6 kg/100 m
Weight	65 Lbs/Mft
Cu-Index	5.3 kg/100 m
Cu-Index	36 Lbs/Mft

Construction Element 1

Element construction	(4×(2×AWG22/1))
Conductor construction	AWG 22/1
Conductor	AWG conductor CU-wire bare
Conductor marking standard	ISO IEC 11801
Conductor insulation	Special Polyolefin
Element shielding	Aluminium laminate Foil shield

Overall construction

Overall stranding	Stranded pairs
Inner jacket	PVC
Overall shield	Foil shield Braid shield Tinned copper wires Optical cover approx. 85 %
Jacket characteristics	Silicone free Flame-retardant

Technical data

Rated voltage	300 V
Rated voltage U_N	600 V AWM 2570 300 V PLTC
Test voltage type	AC 1500 V
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
Category	Cat.6_A

Technical Data Element 1

Element construction	(4×(2×AWG22/1))
Operating capacitance wire-wire	approx.48 pF/m
Loop resistance	≤110 mΩ/m
Impedance	nom.100 Ω

Certifications/Standards

Certifications	cULus CMG 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

General

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