

Technical data sheet

LUTZE SINGLE PAIR ETHERNET (C) PVC · shielded

Flexible Ethernet Cable for Stationary Applications



Identification

Type	SPE (C) PVC (1×2×AWG22/7) TL
Part No.	A1040295

Product version

Datasheet version	00
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Use/Application/Properties

Application	• For the cabling of Industrial Single Pair Ethernet systems • 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 • Designed to IEC 61156-11 (40 m) and IEEE 802.3cg (25 m) • PODL compatible
Properties	• High protection against electromagnetic interferences (EMI) • Ecolab certified resistance to common cleaning agents and chemicals used in food and beverage washdown procedures • Talc free and silicone free

Construction

Ethernet Key	SF/UTP
Description	SINGLE PAIR ETHERNET (C) PVC
Number of conductors/cross-section	(1×2×AWG22/7)
Number of conductors	2
Cross-section, metric	0.34 mm ²
Cross-section AWG	AWG 22
Jacket material	PVC
Jacket color	teal similar to RAL 5018
Outer Ø	5.8 mm
Outer Ø	0.228 inch

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Weight	4.4 kg/100 m
Weight	29.5 Lbs/Mft
Cu-Index	2 kg/100 m
Cu-Index	13.4 Lbs/Mft

Construction Element 1

Element construction	(1×2×AWG22/7)
Conductor construction	AWG 22/7
Conductor	AWG conductor CU-wire bare
Conductor marking	white • blue
Conductor insulation	Special Polyolefin

Overall construction

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

Technical data

Rated voltage UL	300 V
Test voltage type	AC 2000 V
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
Ethernet Standard	1000BASE-T1
Tensile strength moving	max.80
Tensile strength fixed	max.20

Technical Data Element 1

Element construction	(1×2×AWG22/7)
Operating capacitance wire-wire	50 pF/m
Loop resistance	<110 mΩ/m
Impedance	100 Ω
HF Characteristics according to	IEC 61156-11

Certifications/Standards

Certifications	CMG PLTC Class I and II, Div. 2 Class 1 Div. 2 per NEC 501, 502, 505
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UL style	AWM 21695
Conformity	CE RoHS REACH TSCA
Burning behavior according to	DIN EN 60332-1-2 IEC 60332-3-24 UL 1685
Oil resistant according to	Oil Res I UL 2556
UV-resistant according to	UL 1581/2556-300h

General

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