Technical data sheet

PVC Network cables · ETHERNET · shielded

LÜTZE ELECTRONIC ETHERNET (C) PVC
Cat. 5e



Identification

Type	EL ET (C) PVC (2×2×AWG22/1) StC Cat5e
Part No.	104301
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	SF/UTQ
Description	ELECTRONIC ETHERNET (C) PVC
Number of conductors/cross-section	(2×2×AWG22/1)StC
Number of conductors	4
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	6.5 mm
Outer Ø	0.256 inch
Surface	adhesion-free, matte
Weight	6.8 kg/100 m
Weight	44 Lbs/Mft
Cu-Index	3.2 kg/100 m
Cu-Index	25 Lbs/Mft
Mounting	Fast Connect

Construction Element 1

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

Overall construction

Overall stranding	star quad stranding
Overall wrapping	transparent plastic film
Inner jacket	TPE
Overall shield	Foil shield Braid shield tinned copper wires optical cover approx. 80 %
Jacket characteristics	Silicone-free Flame-retardant

Technical data

Rated voltage	300 V
Rated voltage U_N	600 V UL AWM
Test voltage type	1500 V
Temperature according to UL	75 °C
Temperature range moving	-5 °C … +70 °C
Temperature range fixed	-40 °C … +80 °C
Minimum bending radius moving	12×D
Minimum bending radius fixed	6×D
Category	Cat.5e
Transmission performance according to	IEC 61156-5

Technical Data Element 1

Element construction	(2×2×AWG22/1)
Insulation resistance at 20 °C	5000 MΩ×km
Operating capacitance wire-wire	approx.50 pF/m
Loop resistance	≤110 mΩ/m

Impedance	nom.100 Ω

Certifications/Standards

Certifications	cULus CMG 75 °C acc. UL 444 PLTC cURus Class I and II, Div. 2 Class 1 Div. 2 per NEC 501, 502, 505
UL style	AWM 20201
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 UL 1581 part 480
UV-resistant according to	UL Sun Res UL 1581 part 1200

General

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