



**Product:** [8471ELW](#)

Electronic, 2 C #16 Str TC, PE Ins, LSZH Jkt, Cca

[Request Sample](#)

## Product Description

Electronic, 2 Conductor 16AWG (19x29) Tinned Copper, PE Insulation, LSZH Outer Jacket, CPR Cca

## Technical Specifications

### Product Overview

Suitable Applications: low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; computer communication; panel wiring

### Physical Characteristics (Overall)

#### Conductor

AWG	Stranding	Material	No. of Pairs
16	19x29	TC - Tinned Copper	1

Conductor Count:	2
Total Number of Pairs:	1

#### Insulation

Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
PE - Polyethylene	2.67 mm	0.05 mm	0.018 in

#### Color Chart

Number	Color
Pair 1	Black & White

#### Inner Shield

Material
No Shield

#### Outer Shield

Material
No Shield

#### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	7.1 mm	0.89 mm

### Construction and Dimensions

#### Stranding

Twists
6 twist/ft

#### Cabling

Description
1 pair covered with a polyester foil

### Electrical Characteristics

## Conductor DCR

### Nominal Conductor DCR

14.7 Ohm/km

## Capacitance

### Nom. Capacitance Conductor to Conductor

52 pF/m

## Inductance

### Nominal Inductance

0.17 µH/ft

### Nominal Pair Inductance

0.62 µH/m

## Current

### Element

### Max. Recommended Current [A]

Conductor(s) 7.1 Amps per Conductor

## Voltage

### Voltage Rating [V]

300 V

## Temperature Range

Installation Temperature Range: -15°C To +80°C

Storage Temperature Range: -45°C To +80°C

Operating Temp Range (Flexible Install): -15°C To +80°C

Operating Temp Range (Fixed Install): -45°C To +80°C

## Mechanical Characteristics

Oil Resistance: IEC 60811-404

Max. Pull Tension: 127 N

Min. Bend Radius During Installation: 71 mm

Min. Bend Radius/Minor Axis: 2.5 in

## Standards

CPR Euroclass: Cca-s1,d1,a1

CENELEC Compliance: EN 50290-2-27

## Applicable Environmental and Other Programs

Environmental Space: Indoor - Euroclass Cca

EU Directive Compliance: EU Directive 2003/11/EC (BFR)

EU CE Mark: Yes

## Suitability

Suitability - Indoor: Yes

Suitability - Non-Halogenated: Yes

Suitability - Sunlight Resistance: Yes

## Flammability, LSOH, Toxicity Testing

IEC Flammability: IEC 60332-1-2

IEC 60754-1 - Halogen Amount: Zero

IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity: 2.5 µS/mm

IEC 60754-2 - Halogen Acid Gas Amount - Min. pH: 4.3

IEC 61034-2 - Smoke Density Min. Transmittance: 60%

## Plenum/Non-Plenum

Plenum (Y/N): No

## History

Update and Revision: Revision Number: 0.23 Revision Date: 04-08-2022

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