



Product: [8471ELW](#)

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

[Request Sample](#)

Product Description

Electronic, 2 Conductor 16AWG (19x29) Tinned Copper, LSZH 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 |

Inner Jacket

| Nominal Wall Thickness |
|------------------------|
| 0.89 mm |

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 | Nominal Pair Inductance |
|--------------------|-------------------------|
| 0.17 μ H/ft | 0.62 μ H/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 50290-2-20 |

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 μ S/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: 0.32 Revision Date: 02-15-2024

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