



**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 µH/ft         | 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 50290-2-20 |

### 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, LS0H, 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 |
|---------------|----|

Related Part Numbers

Variants

| Item #        |
|---------------|
| 8471ELW.00305 |

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.38 Revision Date: 02-03-2025 |
|----------------------|-------------------------------------------------|

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