



Product: [7701ELW](#) 

LonWorks, 1PR #22 Sol BC, PO ins, Unsh, LSNH Jkt, 300V, Cca

Product Description

LonWorks, 1 Pair AWG 22 Bare Copper - Solid, Polyolefin (PO, PE, PP) insulation, Unshielded shielding, LSZH / FRNC jacket , 300V, Cpr Cca

Technical Specifications

Product Overview

| | |
|------------------------|--|
| Suitable Applications: | LonWorks, instrumentation, Low capacitance |
|------------------------|--|

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | Nominal Diameter |
|-----|-----------|------------------|------------------|
| 22 | Solid | BC - Bare Copper | 0.64 mm |

| | |
|------------------------|---|
| Conductor Count: | 2 |
| Total Number of Pairs: | 1 |

Insulation

| Material | Nominal Diameter | Diameter +/- Tolerance | Min. Wall Thickness |
|-------------------|------------------|------------------------|---------------------|
| PE - Polyethylene | 1.17 mm | 0.05 mm | 0.23 mm |

Color Chart

| Color |
|-------------------------|
| White/Blue & Blue/White |

| | |
|--------------|----------------------|
| Table Notes: | Ring marking applied |
|--------------|----------------------|

Outer Shield

| Material |
|-----------|
| No Shield |

Outer Jacket

| Material | Nominal Diameter |
|---|------------------|
| LSZH - Low Smoke Zero Halogen (Flame Retardant) | 5.1 mm |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 55 Ohm/km |

Capacitance

| Nom. Capacitance Conductor to Conductor |
|---|
| 46 pF/m |

Impedance

| Frequency [MHz] | Nominal Characteristic Impedance |
|-----------------|----------------------------------|
| 1 - 20 | 100 Ohm |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 0.772 MHz | 1.3 dB/100m |
| 1 MHz | 1.5 dB/100m |
| 4 MHz | 3.1 dB/100m |
| 10 MHz | 4.9 dB/100m |
| 16 MHz | 6.3 dB/100m |
| 20 MHz | 6.9 dB/100m |

Current

| Element | Max. Recommended Current [A] |
|--------------|------------------------------|
| Conductor(s) | 2.5 Amps per Conductor |

Voltage

| Voltage Rating [V] |
|--------------------|
| 300 V |

Temperature Range

| | |
|------------------------------|----------------|
| Operating Temperature Range: | -15°C To +80°C |
|------------------------------|----------------|

Mechanical Characteristics

| | |
|---------------------------------------|--------|
| Max. Pull Tension: | 50 N |
| Min. Bend Radius During Installation: | 100 mm |

Standards

| | |
|----------------|---------------|
| CPR Euroclass: | Cca-s1a,d1,a1 |
|----------------|---------------|

Applicable Environmental and Other Programs

| | |
|----------------------|------------------------|
| Environmental Space: | Indoor - Euroclass Cca |
|----------------------|------------------------|

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 |
| IEC 60754-2 - Halogen Acid Gas Amount - Min. pH: | 4.3 |
| IEC 61034-2 - Smoke Density Min. Transmittance: | 60% |

Related Part Numbers

Variants

| Item # | Color | Put-Up Type | Length | EAN |
|---------------|-------|-------------|--------|---------------|
| 7701ELW.00500 | White | Reel | 500 m | 8719605193650 |

History

| | |
|----------------------|---|
| Update and Revision: | Revision Number: 0.37 Revision Date: 04-08-2022 |
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