




Product: [8771NH](#) 

Electronic, 3C #22 Str TC, PO ins, OS, LSNH Jkt 300V

Product Description

Electronic, 3 Conductor AWG 22 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil(s) or Copper Tape(s) shielding, LSZH / FRNC jacket , 300V

Technical Specifications

Product Overview

| | |
|------------------------|----------------------------------------------------------------------------|
| Environmental Space: | Indoor - Euroclass Eca |
| Suitable Applications: | Audio, Control & Instrumentation cable; For data transmission applications |

Physical Characteristics (Overall)

Conductor

| AWG | Stranding | Material | No. of Conductors |
|-----|-----------|--------------------|-------------------|
| 22 | 7x30 | TC - Tinned Copper | 3 |

| | |
|------------------|---|
| Conductor Count: | 3 |
|------------------|---|

Insulation

| Material | Nominal Diameter | Diameter +/- Tolerance | Nominal Wall Thickness |
|-------------------|------------------|------------------------|------------------------|
| PE - Polyethylene | 1.57 mm | 0.05 mm | 0.017 in |

Color Chart

| Number | Color |
|--------|-------|
| Wire 1 | Black |
| Wire 2 | Red |
| Wire 3 | Clear |

Outer Shield Material

| Type | Material | Material Trade Name | Coverage [%] | Thickness of Foil | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|-------------|---------------------|--------------|-------------------|--------------------|---------------|------------------------------|
| Tape | Alum / Poly | Beldfoil® (Z-Fold®) | 100 % | 9 / 12 µm | TC - Tinned Copper | AWG22/7 | 7x30 |

Outer Jacket Material

| Material | Nominal Diameter | Nominal Wall Thickness |
|-----------------------------------------------|------------------|------------------------|
| LSZH - Low Smoke Zero Halogen flame retardant | 5.3 mm | 0.9 mm |

Construction and Dimensions

Cabling

| Description | Twists |
|-------------------------------|------------|
| 3 wires twisted to cable core | 8 twist/ft |

Electrical Characteristics

Conductor DCR

| Nominal Conductor DCR | Nominal Outer Shield DCR |
|-----------------------|--------------------------|
| 49.2 Ohm/km | 43.3 Ohm/km |

Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|-----------------------------------------|---------------------------------------------------------|
| 75.5 pF/m | 134.5 pF/m |

Impedance

| Nominal Characteristic Impedance |
|----------------------------------|
| 69 Ohm |

Delay

| Nominal Velocity of Propagation (VP) [%] |
|------------------------------------------|
| 66 % |

Current

| Element | Max. Recommended Current [A] |
|-----------|------------------------------|
| Conductor | 2.9 A |

Voltage

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

Temperature Range

| | |
|------------------------------------------|----------------|
| Installation Temp Range: | -15°C To +80°C |
| UL Temp Rating: | 60°C |
| Storage Temp Range: | -45°C To +80°C |
| Operating Temp Range: | -20°C To +60°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 |
| Bulk Cable Weight: | 22 lbs/1000ft |
| Max Recommended Pulling Tension: | 163 N |
| Min Bend Radius During Installation: | 53 mm |
| Min Bend Radius/Minor Axis: | 2 in |

Standards

| | |
|--------------------------|---------------|
| NEC/(UL) Specification: | CMG |
| CEC/C(UL) Specification: | CMG |
| CPR Euroclass: | Eca |
| CENELEC Compliance: | EN 50290-2-27 |

Applicable Environmental and Other Programs

| | |
|---------------------------------------|-------------------------------|
| EU Directive Compliance: | EU Directive 2003/11/EC (BFR) |
| EU CE Mark: | Yes |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-01-01 |
| MII Order #39 (China RoHS): | Yes |

Suitability

| | |
|------------------------------------|-----|
| Suitability - Indoor: | Yes |
| Suitability - Non-Halogenated: | Yes |
| Suitability - Sunlight Resistance: | Yes |

Flammability, LSOH, Toxicity Testing

| | |
|----------------------------------------------------|----------------------------------|
| C(UL) Flammability: | FT4 |
| UL Flammability: | UL1685 FT4 Loading |
| ISO/IEC Flammability: | IEC 60332-1-2 and IEC 60332-3-24 |
| Amount of Halogen acc. to IEC 60754-1 & EN50267-1: | Zero |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

| |
|--|
| |
|--|

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Part Number

Variants

| Item # | Color | Length |
|---------------|--------|---------|
| 8771NH.001000 | Chrome | 1,000 m |
| 8771NH.00152 | Chrome | 152 m |
| 8771NH.00305 | Chrome | 305 m |
| 8771NH.00500 | Chrome | 500 m |
| 8771NH.K01000 | Chrome | 1,000 m |

History

| | |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.243 Revision Date: 04-08-2020 |
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