




**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

Suitable Applications:	Audio, Control & Instrumentation cable; For data transmission applications
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### Physical Characteristics (Overall)

#### Conductor

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

Conductor Count:	3
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#### 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

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

#### Outer Jacket

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(s)	2.9 Amps per Conductor

#### Voltage

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

### Temperature Range

Installation Temperature Range:	-15°C To +80°C
UL Temp Rating:	60°C
Storage Temperature Range:	-45°C To +80°C
Operating Temperature 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. Pull Tension:	163 N
Min. Bend Radius During Installation:	53 mm
Min. Bend Radius/Minor Axis:	2 in

### Standards

CPR Euroclass:	Eca
GENELEC Compliance:	EN 50290-2-20

### Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Eca
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 60332-3-24
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%
UL voltage rating:	300 V RMS

### Plenum/Non-Plenum

Plenum (Y/N):	No
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### Related Part Numbers

## Variants

Item #	Color	Put-Up Type	Length	EAN
8771NH.00152	Chrome	Reel	152 m	8719605019332
8771NH.00305	Chrome	Reel	305 m	8719605019349
8771NH.00500	Chrome	Reel	500 m	8719605019356
8771NH.001000	Chrome	Reel	1,000 m	8719605019325

## History

Update and Revision:	Revision Number: 0.298 Revision Date: 06-28-2024
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