



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, LS0H, 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

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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