




Product: [8770NH](#) 

Electronic, 3C #18 Str TC, PO ins, OS, LSNH Jkt 300V

Product Description

Electronic, 3 Conductor AWG 18 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
18	16x30	TC - Tinned Copper	3

Conductor Count:	3
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Insulation

Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
PE - Polyethylene	2.08 mm	0.05 mm	0.018 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	AWG20/7	Stranded

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen flame retardant	6.25 mm	0.84 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
21.7 Ohm/km	27.9 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
78.7 pF/m	157.5 pF/m

Inductance

Nominal Inductance
0.605 µH/m

Impedance

Nominal Characteristic Impedance
69 Ohm

Delay

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

Current

Element	Max. Recommended Current [A]
Conductor	5.3 Amps per Conductor

Voltage

Voltage Rating [V]
300 V

Temperature Range

Installation Temp Range:	-15°C To +80°C
Storage Temp 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
Bulk Cable Weight:	38 lbs/1000ft
Max. Pull Tension:	335 N
Min Bend Radius During Installation:	62.5 mm
Min Bend Radius/Minor Axis:	2.5 in

Standards

NEC/(UL) Compliance:	CMG
CEC/C(UL) Compliance:	CMG
CPR Euroclass:	Cca-s1,d1,a1
CENELEC Compliance:	EN 50290-2-27

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Cca
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2005-11-14
MII Order #39 (China RoHS):	Yes

Suitability

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

Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
IEC 60754-1 (EN50267-1)- Halogen Amount:	Zero
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Max. Conductivity:	2.5 µS/mm
IEC 60754-2 (EN50267-2)- Halogen Acid Gas Amount - Min. pH:	4.3
IEC 61034-2 (EN 61034-2) (VDE 0482-1034) - Smoke Density Min. Transmittance:	IEC 61034-2

UL voltage rating:	300 V RMS (UL AWM Style 2093)
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Putup Type	Length	EAN
8770NH.00305	Chrome	Reel	305 m	8719605019240

History

Update and Revision:	Revision Number: 0.251 Revision Date: 06-24-2020
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