

Product: 8772NH

Electronic, 3C #20 Str TC, PO ins, OS, LSNH Jkt 300V

Product Description

Electronic, 3 Conductor AWG 20 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:	Instrumentation and computer cable; For data transmission applications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Conductors
20	7x28	TC - Tinned Copper	3

Conductor Count:	3

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
PE - Polyethylene	1.78 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	AWG20/7	7x28

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	5.65 mm	0.9 mm

Construction and Dimensions

Cabling

Description	Twists
3 wires twisted to cable core	6 twist/ft

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
34.5 Ohm/km	30.8 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
88.6 pF/m	167.3 pF/m

Impedance

Nominal Characteristic Impedance
69 Ohm

Delay

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

Current

Element	Max. Recommended Current [A]
Conductor(s)	4 A

Voltage

Voltage Rating [V]
300 V

Temperature Range

Installation Temperature Range:	-15°C To +80°C
Storage Temperature Range:	-30°C To +80°C
Operating Temperature Range:	-15°C To +80°C
Operating Temp Range (Fixed Install):	-15°C To +80°C

Mechanical Characteristics

Oil Resistance:	IEC 60811-404
Bulk Cable Weight:	28 lbs/1000ft
Max. Pull Tension:	180 N
Min. Bend Radius During Installation:	56.5 mm
Min. Bend Radius/Minor Axis:	2 in

Standards

CPR Euroclass:	Dca-s1,d1,a1
CENELEC Compliance:	EN 50290-2-20

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Dca
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	Yes

Flammability, LS0H, 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%

Plenum/Non-Plenum

Plenum (Y/N):	No

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	EAN
8772NH.00500	Blue	Reel	500 m	8719605019448

8772NH.001000	Blue	Reel	1,000 m	8719605019431
8772NH.01152	Chrome	Reel	152 m	8719605019462
8772NH.01500	Chrome	Reel	500 m	8719605019479
8772NH.011000	Chrome	Reel	1,000 m	8719605019455

History

Update and Revision:	Revision Number: 0.309 Revision Date: 02-03-2025

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