



Part Number: 8761NH

Audio, Control and Instrumentation Cable Overall Beldfoil® Shield

Product Description

22 AWG stranded (7x30) TC conductors, polyolefin insulation, twisted pair, overall Beldfoil® shield (100% coverage), 22 AWG stranded TC drain wire, LSZH Polyolefin jacket.

Technical Specifications

Product Overview

Environmental Space:	Indoor - Euroclass Dca
Suitable Applications:	Instrumentation and computer cable; For data transmission applications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
22	7x30	TC - Tinned Copper	1

Conductor Count:	2
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Insulation

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

Color Chart

Number	Color
Pair 1	Black & Clear

Outer Shield Material

Type	Material	Material Trade Name	Coverage [%]	Thickness of Foil	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	Aluminum/Polyester	Z-fold®	100 %	9 / 12 µm	TC - Tinned Copper	AWG22/7	Stranded mm

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC (UV stabilised)	4.95 mm	0.9 mm

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
52.5 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
78.7 pF/m	154.2 pF/m

Inductance

Nominal Inductance	Nominal Pair Inductance
0.2 µH/ft	0.66 µH/m

Impedance

Nominal Characteristic Impedance

64 Ohm

Delay

Nominal Velocity of Propagation (VP) [%]

66 %

Current

Element Max. Recommended Current [A]

Conductor 2.9 A

Voltage

Voltage Rating [V]

300 V

Temperature Range

Installation Temp Range:	-15°C To +80°C
UL Temp Rating:	75°C
Storage Temp Range:	-45°C To +80°C
Operating Temp Range:	-20°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:	15 lbs/1000ft
Max Recommended Pulling Tension:	158 N
Min Bend Radius During Installation:	49.5 mm
Min Bend Radius/Minor Axis:	1.75 in

Standards

CPR Euroclass:	Dca-s2,d1,a1
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

Suitability

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

Flammability, LSOH, Toxicity Testing

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
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Part Number

Variants

Item #	Color	Length
8761NH.001000	Chrome	1,000 m
8761NH.00305	Chrome	305 m
8761NH.00500	Chrome	500 m
8761NH.K01000	Chrome	1,000 m

8761NH.K0305	Chrome	305 m
8761NH.01305	White	305 m

History

Update and Revision:	Revision Number: 0.241 Revision Date: 09-02-2019
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