



**Product:** [8761NH](#)

Electronic, 2 C #22 Str TC, PE ins, OS, LSZH Jkt, 300V, Dca

### Product Description

Electronic, 2 Conductor 22AWG (7x30) Tinned Copper, PE Insulation, Overall Beldfoil® Shield, LSZH Outer Jacket, CPR Dca

### Technical Specifications

#### Product Overview

Suitable Applications:	low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; computer communication; panel wiring
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#### 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
PE - Polyethylene	1.57 mm	0.05 mm	0.017 in

##### Color Chart

Number	Color
Pair 1	Black & 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	Stranded

##### Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	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
0.66 µH/m	0.66 µH/m

##### Impedance

Nominal Characteristic Impedance

64 Ohm

#### Delay

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

66%

#### Current

Element	Max. Recommended Current [A]
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Conductor(s)	2.9 Amps per Conductor
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#### Voltage

##### Voltage Rating [V]

300 V

### Temperature Range

Installation Temp Rating:	-15°C To +80°C
Installation Temp Range:	-15°C To +80°C
Storage Temp Range:	-45°C To +80°C
Operating 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:	15 lbs/1000ft
Max. Pull 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

Environmental Space:	Indoor - Euroclass Dca
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
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, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-1-2 and 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
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8761NH.00305	Chrome	Reel	305 m	8719605019011
8761NH.00500	Chrome	Reel	500 m	8719605019028
8761NH.001000	Chrome	Reel	1,000 m	8719605019004
8761NH.01305	White	Reel	305 m	8719605174611

## History

Update and Revision:	Revision Number: 0.315 Revision Date: 02-04-2022
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