



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

Life Cycle Status: Capability

Electronic, 2 C #22 Str TC, PE ins, OS, LSZH Jkt, 300V, B2ca

## Product Description

Electronic, 2 Conductor 22AWG (7x30) Tinned Copper, PE Insulation, Overall Beldfoil® Shield, LSZH Outer Jacket, CPR B2ca

## 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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### Construction Details

#### Conductor

Size	Stranding	Material
22	7x30	TC - Tinned Copper

#### Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.017 in (0.43 mm)	1.57 mm (0.0618 in)	Black & Clear

#### Outer Shield

Shield Type	Material	Coverage	Drainwire Type
Tape	Bi-Laminate (Alum+Poly)	100%	22 AWG (7x30) TC

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.9 mm (0.035 in)	5.70 mm (0.224 in)

Overall Cable Diameter (Nominal):	5.70 mm (0.224 in)
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### Electrical Characteristics

#### Electricals

Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedance	Nom. Velocity of Prop.	Max. Current
52.5 Ohm/km (16.0 Ohm/1000ft)	78.7 pF/m (24.0 pF/ft)	154.2 pF/m (47.00 pF/ft)	64 Ohm	66%	2.9 Amps per Conductor

### Mechanical Characteristics

#### Temperature

Operating	Installation	Storage
-45°C To +80°C	-15°C To +80°C	-45°C To +80°C

#### Bend Radius

##### Installation Min.

57 mm (2.2 in)

Max. Pull Tension:	158 N (35.5 lbf)
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### Standards and Compliance

Environmental Suitability:	Indoor - Euroclass B2ca, Indoor, Non-Halogenated, Sunlight Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: B2ca-s1,d1,a1
ISO/IEC Compliance:	IEC 61034-2 - Smoke Density Min Transmittance = 60%
GENELEC Compliance:	EN 50290-2-20
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 $\mu$ S/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), EU Directive 2011/65/EU (RoHS 2)
UK Regulation Compliance:	UKCA Mark

## Product Notes

Notes:	This is a preliminary Technical Design Specification (TDS) which is subject to modification throughout the prototyping phase. The minimum business quantity to offer is 6km for the first order. This product will have Chrome as standard color and 305mt or 500mt as standard put-ups. Additional options for colors and put-ups are available on special request. The estimated production lead time for the first order will be similar to the production lead time of 8761NH plus extra 6-7 weeks. Please liaise with your Belden representative for confirmation.
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## History

Update and Revision:	Revision Number: 0.4 Revision Date: 09-26-2024
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