



**Product:** [78761ELZ](#)

Life Cycle Status: Capability

Electronic, 2 C #22 Str TC, PE ins, OS, LSZH Jkt, Eca

**Product Description**

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

**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**

Element	No. of Elements	Size	Stranding	Material
Pair(s)	1	22 AWG	7x30	TC - Tinned Copper

**Insulation**

Element	Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
Pair(s)	PE - Polyethylene	0.3 mm (0.012 in)	1.35 mm (0.0531 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)	0.6 mm (0.024 in)	4.0 mm (0.16 in)

Overall Cable Diameter (Nominal):	4.0 mm (0.16 in)
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**Electrical Characteristics**

**Electricals**

Element	Nom. Conductor DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Max. Current
Pair(s)	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	2.9 Amps per Conductor

**Voltage**

Voltage Rating
300 V

**Mechanical Characteristics**

**Temperature**

Operating	Installation	Storage
-20°C To +70°C	-10°C To +70°C	-20°C To +70°C

**Bend Radius**

Stationary Min.	Installation Min.
20 mm (0.79 in)	40 mm (1.6 in)

Max. Pull Tension:	35 N (7.9 lbf)
Bulk Cable Weight:	19 kg/km (13 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Eca, Indoor, Non-Halogenated
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca
ISO/IEC Compliance:	IEC 61034-2 - Smoke Density Min Transmittance = 60%
CENELEC 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 µS/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). The minimum business quantity to offer is 6km for the first order. This product will have Gray as standard color and 305mt 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. Please liaise with your Belden representative for confirmation.
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History

Update and Revision:	Revision Number: 0.7 Revision Date: 07-24-2025
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