



REPRESENTATIVE IMAGE

Product: [8723PE](#)

Life Cycle Status: Capability

Audio, Control & Instrument, #22-2pr, PO, Individ. Foil, PE Jkt.

Product Description

Audio, Control & Instrument Cable, 22 AWG stranded (7x28) tinned copper conductors, polypropylene insulation, twisted pairs, individually Beldfoil® shielded (100% coverage),24 AWG stranded tinned copper drain wire, PE jacket

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. Insulation Diameter	Color Code
PP - Polypropylene	1.17 mm (0.0461 in)	Black & Red, Green & White

Inner Shield

Shield Type	Material	Coverage	Drainwire Type	Notes
Tape	Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC	foil-out tape on each pair, one drain wire

Outer Jacket

Nom. Thickness	Nom. Diameter
0.65 mm (0.026 in)	4.55 mm (0.179 in)

Overall Cable Diameter (Nominal):	4.60 mm (0.181 in)
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Electrical Characteristics

Electricals

Nom. Conductor DCR	Nom. Inner Shield DCR	Nom. Capacitance Cond-to-Cond	Nom. Capacitance Cond-to-Other (Conds + Shield)	Nom. Characteristic Impedence	Max. Current
49.2 Ohm/km (15.0 Ohm/1000ft)	54.5 Ohm/km (16.6 Ohm/1000ft)	115 pF/m (35.1 pF/ft)	203 pF/m (61.9 pF/ft)	45 Ohm	2.3 Amps per Conductor

Voltage

Voltage Rating
300 V

Mechanical Characteristics

Temperature

Operating	Installation	Storage
-45°C To +70°C	-15°C To +70°C	-45°C To +70°C

Bend Radius

Installation Min.	
45.5 mm (1.79 in)	
Max. Pull Tension:	226 N (50.8 lbf)

Standards and Compliance

Environmental Suitability:	Water Exposure/Below-Grade Conduit, Indoor, Non-Halogenated, Sunlight Resistance
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
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 Black 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 8723NH. Please liaise with your Belden representative for confirmation.
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History

Update and Revision:	Revision Number: 0.4 Revision Date: 03-19-2025
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