



REPRESENTATIVE IMAGE

Product: [8723LV](#)

Life Cycle Status: Capability

Audio, Control & Instrument, #22-2pr, PO, Individ. Foil, LSZH Jkt, B2ca

Product Description

Audio, Control & Instrument Cable, 22 AWG stranded (7x30) tinned copper conductors, polypropylene insulation, twisted pairs, individually Beldfoil® shielded (100% coverage), 24 AWG stranded tinned copper drain wire, LSZH 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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Physical Characteristics (Overall)

Conductor

Element	AWG	Stranding	Material	No. of Pairs
Pair(s)	22	7x30	TC - Tinned Copper	2

Conductor Count:	4
Total Number of Pairs:	2

Insulation

Element	Material	Nominal Diameter	Diameter +/- Tolerance
Pair(s)	PP - Polypropylene	1.17 mm	0.05 mm

Color Chart

Number	Color
Pair 1	Black & Red
Pair 2	Green & White

Inner 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 µm	TC - Tinned Copper	AWG24/7	7x32

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.22 in	0.043 in

Construction and Dimensions

Stranding

Twists
8 twist/ft

Cabling

Description
2 pairs twisted to cable core

Electrical Characteristics

Conductor DCR

Individual Pair Nominal Shield DCR	Nominal Inner Shield DCR
15 Ohm/1000ft	17.44 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
114.8 pF/m	203.4 pF/m

Inductance

Nominal Pair Inductance
0.56 μ H/m

Impedance

Nominal Characteristic Impedance
45 Ohm

Delay

Nominal Velocity of Propagation (VP) [%]
66%

Current

Element	Max. Recommended Current [A]
Conductor(s)	2.24 Amps per Conductor at 25°C

Voltage

UL Voltage Rating	Voltage Rating [V]
300 V	300 V

Temperature Range

Installation Temperature Range:	-15°C To +80°C
UL Temp Rating:	80°C
Operating Temperature 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
Max. Pull Tension:	42 lbs
Min. Bend Radius During Installation:	2.2 in
Min. Bend Radius (Continuous Flexing):	2.2 in
Min. Bend Radius/Minor Axis:	2 in

Standards

CPR Euroclass:	B2ca-s1a,d1,a1
CENELEC Compliance:	EN 50290-2-20

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass B2ca
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	Yes
Suitability - Sunlight Resistance:	Yes

Flammability, LSOH, Toxicity Testing

IEC Flammability:	IEC 60332-1-2
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:	80%

Product Notes

Notes:	This is a preliminary Technical Design Specification (TDS). The minimum business quantity to offer is 3km for the first order. This product will have Chrome 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 8723LW. Please liaise with your Belden representative for confirmation.
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History

Update and Revision:	Revision Number: 0.4 Revision Date: 07-23-2024
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