



Product: [8719ELV](#)

Life Cycle Status: Capability

Electronic, 2 C #16 Str TC, LSZH Ins, OS, LSZH Jkt, B2ca

Product Description

Electronic, 2 Conductor 16AWG (19x29) Tinned Copper, LSZH Insulation, Overall Beldfoil® Shield, LSZH Outer Jacket, CPR B2ca

Technical Specifications

Product Overview

Suitable Applications:	up to 600V analog signals ; up to 600V digital control ; line level audio; voice communications; panel wiring
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
16	19x29	TC - Tinned Copper	1

Conductor Count:	2
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Insulation

Material	Nominal Diameter	Diameter +/- Tolerance
LSZH - Low Smoke Zero Halogen (Flame Retardant)	3.1 mm	0.07 mm

Color Chart

Number	Color
Pair 1	Black & white

Inner Shield

Material	Drainwire Material	Drainwire AWG
Bi-Laminate (Alum+Poly)	TC - Tinned Copper	AWG18/16

Inner Jacket

Material
LSZH - Low Smoke Zero Halogen (Flame Retardant)

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®	100%	9 / 23 µm	TC - Tinned Copper	18	Stranded

Outer Jacket

Material	Color	Nominal Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	Chrome (RAL 7037)	8.30 mm
		8.30 mm

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
14.76 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
110 pF/m	200 pF/m

Inductance

Nominal Pair Inductance
0.66 μ H/m

Current

Element	Max. Recommended Current [A]
Conductor(s)	7 Amps per Conductor at 25°C

Voltage

Voltage Rating [V]
300 V

Temperature Range

Operating Temperature Range:	-20°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

Min. Bend Radius/Minor Axis:	85 mm
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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 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

Suitability

Suitability - Indoor:	Yes
Suitability - Non-Halogenated:	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 μ S/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 8719ELW. 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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