BELDEN
SENDING ALL THE RIGHT SIGNALS

Product: 8471ELW

Electronic, 2 C #16 Str TC, PE Ins, LSZH Jkt, Cca

Request Sample

Product Description

Electronic, 2 Conductor 16AWG (19x29) Tinned Copper, PE Insulation, LSZH Outer Jacket, CPR Cca

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

Physical Characteristics (Overall)

Conductor

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

Conductor Count:	2
Total Number of Pairs:	1

Insulation

Material	Nominal Diameter	Diameter +/- Tolerance	Nominal Wall Thickness
PE - Polyethylene	2.67 mm	0.05 mm	0.018 in

Color Chart

Number	Color
Pair 1	Black & White

Inner Shield

Material
No Shield

Outer Shield

Material
No Shield

Outer Jacket

Material	Nominal Diameter	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	7.1 mm	0.89 mm

Construction and Dimensions

Stranding

Twists
6 twist/ft

Cabling

Description
1 pair covered with a polyester foil

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
14.7 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor
52 pF/m

Inductance

Nominal Inductance	Nominal Pair Inductance
0.17 µH/ft	0.62 µH/m

Current

Element	Max. Recommended Current [A]
Conductor(s)	7.1 Amps per Conductor

Voltage

Voltage Rating [V]
300 V

Temperature Range

Installation Temperature Range:	-15°C To +80°C
Storage 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:	127 N
Min. Bend Radius During Installation:	71 mm
Min. Bend Radius/Minor Axis:	2.5 in

Standards

CPR Euroclass:	Cca-s1,d1,a1
CENELEC Compliance:	EN 50290-2-27

Applicable Environmental and Other Programs

Environmental Space:	Indoor - Euroclass Cca
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

Suitability

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

Flammability, LS0H, 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:	60%

Plenum/Non-Plenum

Plenum (Y/N):	No

History

Update and Revision:	Revision Number: 0.23 Revision Date: 04-08-2022

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