



Product: [9729ZH](#)

Electronic, 2 Pr #24 Str TC, PO Ins, OS+TC Brd, LSZH Jkt, CMG

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Product Description

Electronic, 2 Pair 24AWG (7x32) Tinned Copper, PO Insulation, Overall Beldfoil®+Tinned Copper Braid(65%) Shield, LSZH Outer Jacket, CMG

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
24	7x32	TC - Tinned Copper	2
Conductor Count:			4
Total Number of Pairs:			2

Insulation

Material	Material Trade Name	Nominal Wall Thickness
PE - Polyethylene (Foam)	Datalene®	0.0185 in

Color Chart

Number	Color
1	Black and Red
2	Black and White

Inner Shield

Type	Layer	Material	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Tape	Bi-Laminate (Alum+Poly)	100%	TC - Tinned Copper	24

Outer Jacket

Material	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	0.048 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR
24.0 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
12.5 pF/ft	23.2 pF/ft

Inductance

Nominal Inductance
0.23 µH/ft

Impedance

Nominal Characteristic Impedance

100 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
0.384 MHz	0.74 dB/100ft
0.7056 MHz	0.87 dB/100ft
0.768 MHz	0.88 dB/100ft
1.024 MHz	0.94 dB/100ft
1.4112 MHz	1.01 dB/100ft
1.536 MHz	1.03 dB/100ft
2.048 MHz	1.13 dB/100ft
2.8224 MHz	1.29 dB/100ft
3.072 MHz	1.35 dB/100ft
4.096 MHz	1.57 dB/100ft
5.6448 MHz	1.78 dB/100ft
6.144 MHz	1.84 dB/100ft
8.192 MHz	2.13 dB/100ft
11.2896 MHz	2.45 dB/100ft
12.288 MHz	2.57 dB/100ft
24.576 MHz	3.57 dB/100ft

Delay

Nominal Velocity of Propagation (VP) [%]
76%

Current

Max. Recommended Current [A]
1 Amp per Conductor at 25°C

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

UL Temp Rating:	75°C
Operating Temp Range:	-20°C to 75°C

Mechanical Characteristics

Bulk Cable Weight:	36 lbs/1000ft
Max. Pull Tension:	22 lbs
Min. Bend Radius/Minor Axis:	3.25 in

Standards

NEC Articles:	Article 800
NEC/(UL) Compliance:	CMG
CEC/C(UL) Compliance:	CMG
UL AWM Style Compliance:	21088

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU (RoHS 2 amendment):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes

Suitability

Suitability - Indoor:	Yes
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Flammability, LS0H, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
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UL voltage rating:	300 V RMS
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Plenum/Non-Plenum

Plenum (Y/N):	No
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Part Number

Variants

Item #	Color	Put-Up Type	Length	UPC
9729ZH 060500	Chrome	Reel	500 ft	612825382348
9729ZH 0601000	Chrome	Reel	1,000 ft	612825382331

History

Update and Revision:	Revision Number: 0.190 Revision Date: 09-10-2021
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