



Product: [9729LS](#)

RS-232/422, 2PR #24 Str TC, PO ins, IF, LSNH Jkt, 300V, SWA

Product Description

RS-232/422, 2 Pair AWG 24 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Individually Foiled + No Overall shielding, LSZH / FRNC jacket , 300V, SWA

Technical Specifications

Product Overview

Suitable Applications:	Instrumentation and computer cable; For data transmission applications
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
24	7x32	TC - Tinned Copper	2

Conductor Count:	4
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Insulation

Material	Material Trade Name	Nominal Diameter	Diameter +/- Tolerance
PE - Polyethylene (Foam)	Datalene®	1.55 mm	0.06 mm

Color Chart

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

Table Notes:	Shielded pairs
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Color Chart 2

Number	Color
Pair 1	Red
Pair 2	Green

Inner Shield

Type	Material	Material Trade Name	Thickness of Foil	Drainwire Material	Drainwire AWG
Tape	Bi-Laminate (Alum+Poly)	Beldfoil® (Z-Fold®)	9 / 12 µm	TC - Tinned Copper	AWG24/7

Inner Jacket

Material	Color	Nominal Diameter	Min. Wall Thickness	Min. Average Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	Chrome (RAL 7037)	7.9 mm	0.91 mm	1.10 mm

Outer Shield

Material
Bi-Laminate (Alum+Poly)

Outer Jacket

Material	Nominal Diameter	Min. Wall Thickness	Nominal Wall Thickness
LSZH - Low Smoke Zero Halogen (Flame Retardant)	12.5 mm	1.25 mm	1.35 mm

Construction and Dimensions

Cabling

Description	Filler
2 pairs and 2 fillers twisted to cable core	Polypropylene (Blue, 2.20 mm)

Armor

Type of Armor	Material	Thickness of Armoring Wires	Coverage Percentage
Steel Wire Armoring	Galvanized steel wire	0.9 mm	Min. 95%

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Inner Shield DCR
78.7 Ohm/km	59.1 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
41 pF/m	76.1 pF/m

Inductance

Nominal Pair Inductance
0.49 μ H/m

Impedance

Nominal Characteristic Impedance
100 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
2 MHz	4.63 dB/100m
3 MHz	5.35 dB/100m
4 MHz	5.91 dB/100m
5 MHz	6.5 dB/100m
6 MHz	6.89 dB/100m
11 MHz	9.15 dB/100m
12 MHz	9.51 dB/100m
24 MHz	13.16 dB/100m

Current

Element	Max. Recommended Current [A]
Conductor(s)	1 A

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
Min. Bend Radius During Installation:	187.5 mm

Standards

CENELEC Compliance:	EN 50290-2-20
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Applicable Environmental and Other Programs

Environmental Space:	Indoor, Indoor/Outdoor, Outdoor, Indoor/Outdoor - Euroclass Eca
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Suitability

Suitability - Sunlight Resistance:	Yes
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Flammability, LS0H, Toxicity Testing

IEC Flammability:	IEC 60332-3-24
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%

Related Part Numbers

Variants

Item #	Color	Put-Up Type	Length	EAN
9729LS.00500	Black	Reel	500 m	8719605022516
9729LS.001000	Black	Reel	1,000 m	8719605022509
9729LS.011000	Black	Reel	1,000 m	8719605022523

History

Update and Revision:	Revision Number: 0.240 Revision Date: 02-03-2025
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