



Part Number: 9842LS

Paired Computer Cables Low-Capacitance Computer Cables for RS-485 Applications

Product Description

24 AWG, Stranded (7 x32) TC Conductors, Polyethylene Insulation, Overall Beldfoil® + 90% TC Braid, 24 AWG Stranded TC Drain Wire, Chrome LSZH Jacket, 2 Pairs, Steel Wire Armor

Technical Specifications

Product Overview

Environmental Space:	Indoor/Outdoor - Euroclass Eca
Suitable Applications:	RS-485 Instrumentation and computer cable; For EIA RS-485 data transmission applications

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	Nominal Diameter	Diameter +/- Tolerance
Polyethylene	1.73 mm	0.05 mm

Color Chart

Number	Color
Pair 1	White/Blue & Blue/White
Pair 2	White/Orange & Orange/White

Inner Shield Material

Type	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG
Tape	Aluminum / Polyester	Z-fold®		Tinned copper	AWG24/7
Braid	Tinned copper		90 %		

Inner Jacket Material

Material	Color	Nominal Diameter	Nominal Wall Thickness
FRNC / LSZH	Chrome (RAL 7037)	8.65 mm	1.1 mm

Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC (UV stabilised)	13.1 mm	1.35 mm

Construction and Dimensions

Cabling

Description	Filler
2 pairs and 2 fillers twisted to cable core	Polypropylene (2x) (White, 2.87 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 Outer Shield DCR
78.7 Ohm/km	7.2 Ohm/km

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
42 pF/m	75.5 pF/m

Impedance

Frequency [MHz]	Nominal Characteristic Impedance
1 MHz	120 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	1.97 dB/100m

Delay

Nominal Delay	Nominal Velocity of Propagation (VP) [%]
520 ns/ft	66 %

Current

Element	Max. Recommended Current [A]
Conductor	2.1 A

Voltage

Voltage Rating [V]
300 V

Temperature Range

Installation Temp Range:	-15°C To +80°C
Storage Temp 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:	196.5 mm

Standards

CPR Euroclass:	Eca
CENELEC Compliance:	EN 50290-2-27

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01
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Flammability, LSOH, Toxicity Testing

ISO/IEC Flammability:	IEC 60332-1-2 and IEC 60332-3-24
Amount of Halogen acc. to IEC 60754-1 & EN50267-1:	Zero

Part Number

Variants

Item #	Color	Length
9842LS.001000	Black	1,000 m
9842LS.001200	Black	1,200 m
9842LS.001280	Black	1,280 m
9842LS.001500	Black	1,500 m
9842LS.00152	Black	152 m

9842LS.002000	Black	2,000 m
9842LS.002600	Black	2,600 m
9842LS.00500	Black	500 m
9842LS.01500	Black	500 m
9842LS.011000	Black	1,000 m
9842LS.012000	Black	2,000 m
9842LS.K01000	Black	1,000 m
9842LS.K0500	Black	500 m
9842LS.011500	Black	1,500 m
9842LS.021000	Green	1,000 m
9842LS.02500	Green	500 m
9842LS.03500	Green	500 m

History

Update and Revision:	Revision Number: 0.152 Revision Date: 09-02-2019
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