



Part Number: 9729LS

Paired Computer Cables Low-Capacitance 100 Ohm Computer Cables for RS-422 and Digital Audio Applications

Product Description

24 AWG, Stranded (7 x 32) TC Conductors, Datalene Insulation, Individually Beldfoil® Shielded Pairs, Chrome LSZH Jacket, 2 Pairs, Steel Wire Armor

Technical Specifications

Product Overview

Environmental Space:	Indoor
Suitable Applications:	Instrumentation and computer cable; For data transmission applications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Cond	uctors	No. of Pairs
24	7x32	TC - Tinned Copper	4		2
Condu	ctor Count:			4	
Total I	Total Number of Pairs:		2		

Insulation

Material	Material Trade Name	Nominal Diameter	Diameter +/- Tolerance
FPE - Foamed Polyethylene	Datalene®	1.55 mm	0.06 mm

Color Chart

Number	Color
Pair 1	Black & Red
Pair 2	Black & White
Color Cha	art1, Table Note:

Color Chart 2

Number	Color
Pair 1	Red
Pair 2	Green

Inner Shield Material

Type	Material	Material Trade Name	Thickness of Foil	Drainwire Material	Drainwire AWG
Tape	Aluminum / Polyester	Z-fold®	9 / 12 µm	Tinned copper	AWG24/7

Inner Jacket Material

Material	Color	Nominal Diameter	Min. Wall Thickness	Min. Average Wall Thickness
FRNC / LSZH	Chrome (RAL 7037)	7.9 mm	0.91 mm	1.10 mm

Outer Shield Material



Outer Jacket Material

Material	Nominal Diameter	Min. Wall Thickness	Nominal Wall Thickness
LSZH / FRNC (UV stabilised)	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 µH/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	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:	187.5 mm

Standards

CENELEC Compliance: EN 502	90-2-27
----------------------------	---------

Applicable Environmental and Other Programs

EU RoHS Compliance Date (yyyy-mm-dd):	2005-01-01

Flammability, LS0H, Toxicity Testing

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

Part Number

Variants

Item #	Color	Length
9729LS.001000	Black	1,000 m
9729LS.00500	Black	500 m
9729LS.011000	Black	1,000 m

History

Update and Revision:	Revision Number: 0.166 Revision Date: 09-02-2019

© 2019 Belden, Inc

All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described here in are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "ASIS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with all applicable environmental programs as listed in the data sheet. The information provided is correct to the best of Belden's knowledge, information and belief at the date of its publication. This information is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. The Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.