

Part Number: 9844LS

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, 4 Pairs, Steel Wire Armor

## **Technical Specifications**

#### **Product Overview**

Environmental Space:	Indoor/Outdoor
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	4
Condu	uctor Count:		
Total N	Number of Pa	airs:	

#### 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
Pair 3	White/Green & Green/White
Pair 4	White/Brown & Brown/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

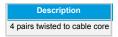
Material	Color	Nominal Diameter	Nominal Wall Thickness
FRNC / LSZH (UV stabilised)	Chrome (RAL 7037)	9.9 mm	0.89 mm

### Outer Jacket Material

Material	Nominal Diameter	Nominal Wall Thickness
LSZH / FRNC (UV stabilised)	15.1 mm	1.35 mm

#### **Construction and Dimensions**

## Cabling



#### Armor

Type of Armor	Material	Thickness of Armoring Wires	Coverage Percentage
Steel Wire Armoring	Galvanized steel wire	1.25 mm	Min. 95 %

#### **Electrical Characteristics**

#### Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
78.7 Ohm/km	6.9 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]

# **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
Max Recommended Pulling Tension:	500 N
Min Bend Radius During Installation:	151 mm

### **Standards**

CENELEC Compliance:	EN 50290-2-27	
OZITZZZO GOMPHANIGO.	2.1 00200 2 2:	

# **Applicable Environmental and Other Programs**

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

# Flammability, LS0H, Toxicity Testing

ISO/IEC Flam	mability:	IEC 60332-3-24
Amount of Hal	ogen acc. to IEC 60754-1 & EN50267-1:	Zero

## **Part Number**

## Variants

Item #	Color	Length
9844LS.001000	Black	1,000 m
9844LS.00500	Black	500 m
9844LS.011000	Black	1,000 m

9844LS.01500 | Black | 500 m

#### **History**

Update and Revision: Revision Number: 0.150 Revision Date: 09-02-2019

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