



**Part Number:** 9842LS.001000

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

## Product Specifications

### AG.Filter Attributes

Total Number of Conductors:	4
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### Application

Suitable Applications:	RS-485 Instrumentation and computer cable; For EIA RS-485 data transmission applications
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### Cabling1

Description@Cabling1:	2 pairs and 2 fillers twisted to cable core
Filler@Cabling1:	Polypropylene (2x) (White, 2.87 mm)

### Conductor

Total Number of Pairs:	2
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## Technical Specifications

### Applicable Patents

Patent:	<a href="http://www.belden.com/p">http://www.belden.com/p</a>
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Bend Radius

Min Bend Radius During Installation:	196.5 mm
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EMEA Standard

CENELEC Compliance:	EN 50290-2-27
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General Electrical Parameters

Dielectric Strength Cond-Cond (2 sec. ):	2.5 kV DC
Dielectric Strength Cond-Screen (2 sec. ):	2.5 kV DC

History

Revision Date (yyyy-mm-dd):	2013-04-24
Revision Number:	11

Safety

ISO/IEC Flammability:	IEC 60332-3-24
Amt of Halogen Acid Gas; MaxConductivity:	10 µS/mm
Amt of Halogen Acid Gas; Min pH:	4.3
Smoke Density; Min Transmittance:	60%
Amt of Halogen IEC 60754-1 /EN50267-1:	Zero

Use

Oil Resistance:	IEC 60811-404
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Impedance:

Frequency [MHz]	Nominal Characteristic Impedance
1	120 Ohm

Conductor DCR:

Nominal Conductor DCR	Nominal Outer Shield DCR
78.7 Ohm/km	7.2 Ohm/km

Color Chart 1:

Number	Color
Pair 1	White/Blue & Blue/White

Pair 2	White/Orange & Orange/White
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#### Delay:

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

#### Voltage:

Voltage Rating [V]
300 V

#### Current:

Element	Max. Recommended Current [A]
Conductor	2.1 A

#### Capacitance:

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

#### High Frequency (Nominal/Typical):

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

#### Innerjacket:

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

#### Armor:

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

#### Insulation:

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

#### Outerjacket 1:

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

#### Conductor:

AWG	Stranding	Material	No. of Pairs
24	7xAWG32	Tinned copper	2

#### Other Electrical Information:

Dielectric Strength Cond-Cond (2 sec.)	2.5 kV DC
Dielectric Strength Cond-Screen (2 sec.)	2.5 kV DC

#### Outershield 1:

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

## Product Variants

Part Number	Color	Put-Up Type	Length
9842LS.001000	BLACK	Reel	1000 m
9842LS.001200	BLACK	Reel	1200 m
9842LS.001280	BLACK	Reel	1280 m
9842LS.001500	BLACK	Reel	1500 m
9842LS.00152	BLACK	Reel	152 m
9842LS.002000	BLACK	Reel	2000 m
9842LS.002600	BLACK	Reel	2600 m
9842LS.00500	BLACK	Reel	500 m
9842LS.001000	BLACK	Reel	1000 m
9842LS.001000	BLACK	Reel	1500 m
9842LS.001000	BLACK	Reel	2000 m
9842LS.01500	BLACK	Reel	500 m
9842LS.021000	GREEN	Reel	1000 m
9842LS.02500	GREEN	Reel	500 m
9842LS.03500	GREEN	Reel	500 m
9842LS.001000	BLACK	Reel	1000 m
9842LS.001000	BLACK	Reel	500 m

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