Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



9842 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-485 Applications

For more Information please call

1-800-Belden1



General Description:

24 AWG stranded (7x32) TC conductors, polyethylene insulation, twisted pairs, overall Beldfoil® (100% coverage) + TC braid shield (90% coverage), 24 AWG stranded TC drain wire, PVC jacket

Usage (Overall)

Suitable Applications: RS-485, DMX-512

Physical Characteristics (Overall)

Conductor

AWG:

ı	# Pairs	AWG	Stranding	Conductor Material
ı	2	24	7x32	TC - Tinned Copper

Total Number of Conductors: 4

Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
PE - Polyethylene	0.559

Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Туре	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	90

Outer Shield Drain Wire AWG:

	Stranding	Drain Wire Conductor Material
24	7x32	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.889

Overall Cable

Overall Nominal Diameter: 8.636 mm

Pair

Pair Color Code Chart:

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

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +80°C
UL Temperature Rating:	80°C
Bulk Cable Weight:	72.922 Kg/Km
Max. Recommended Pulling Tension:	386.993 N

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Min. Bend Radius/Minor Axis: 88.900 mm

Applicable Specifications and Agency Compliance (Overall) Applicable Standards & Environmental Programs NEC/(UL) Specification: CM CEC/C(UL) Specification: СМ **AWM Specification:** UL Style 2919 (30 V 80°C) EU Directive 2011/65/EU (ROHS II): Yes **EU CE Mark:** Yes EU Directive 2000/53/EC (ELV): Yes EU Directive 2002/95/EC (RoHS): Yes EU RoHS Compliance Date (mm/dd/yyyy): 01/01/2004 EU Directive 2002/96/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes CA Prop 65 (CJ for Wire & Cable): Yes

Yes

Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 82842

Electrical Characteristics (Overall)

MII Order #39 (China RoHS):

Nom. Characteristic Impedance:

Impedance (Ohm)
120

Nom. Capacitance Conductor to Conductor:

Capacitance	(pF/m)
41.9968	

Nom. Capacitance Cond. to Other Conductor & Shield:



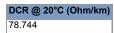
Nominal Velocity of Propagation:



Nominal Delay:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:



Nom. Attenuation:

Attenuation (dB/100m) Attenuation (MHz)
1.969 1

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

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Current
2.1 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9842 060100	100 FT	5.800 LB	CHROME		2 PR #24 PE SH PVC
9842 0601000	1,000 FT	57.000 LB	CHROME	С	2 PR #24 PE SH PVC
9842 06010000	10,000 FT	560.000 LB	CHROME		2 PR #24 PE SH PVC
9842 060500	500 FT	29.500 LB	CHROME	С	2 PR #24 PE SH PVC
9842 0605000	5,000 FT	270.000 LB	CHROME		2 PR #24 PE SH PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 4 Revision Date: 04-25-2017

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ALU+CU/GLOB 2PAWG24 RS485

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