Detailed Specifications & Technical Data

ENGLISH 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:

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

Total Number of Conductors:	4

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
PE - Polyethylene	0.022

Outer Shield

Outer Shield Material:

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

Outer Shield Drain Wire AWG:

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

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.035

Overall Cable

Overall Nominal Diameter:	0.340 in.

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:	49 lbs/1000 ft.
Max. Recommended Pulling Tension:	87 lbs.
Min. Bend Radius/Minor Axis:	3.500 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
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
MII Order #39 (China RoHS):	Yes

Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	82842

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)
120

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
12.8

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
23

Nominal Velocity of Propagation:

VP (%)
66

Nominal Delay:

Delay (ns/ft)
1.540

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
24

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
2.070

Nom. Attenuation:

Attenuation (dB/100 ft.)	Attenuation (MHz)
0.600	1

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

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	C	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	C	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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Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).