

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



For more Information
 please call
 1-800-Belden1



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

Physical Characteristics (Overall):

Conductor:

AWG

# Pairs	AWG	Stranding	Conductor Material
2.000	24	7x32	TC - Tinned Copper

Insulation:

Insulation Material

Ins Material
PE - Polyethylene

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
PVC - Polyvinyl Chloride

Overall Cabling:

Overall Nominal Diameter: .340 in.

Pair:

Pair Color Code Chart

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

Pair Lay Length & Direction

Lay Length (in.)	Lay Length (in.)	Lay Length	Twists/ft. (twist/ft)
1.000	Left Hand Lay	12	12.000

Mechanical Characteristics (Overall):

Operating Temperature Range	-30°C To +80°C
UL Temperature Rating	80°C
Bulk Cable Weight:	62 lbs/1000 ft.
Max. Recommended Pulling Tension:	87 lbs.
Min. Bend Radius (Install):	3.500 in.

Applicable Specifications and Agency Compliance (Overall):

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Applicable Standards:

NEC/(UL) Specification	CM
CEC/C(UL) Specification	CM
AWM Specification	UL Style 2919 (30 V 80°C)
EU CE Mark (Y/N)	Yes
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy)	01/01/2004

Plenum/Non-Plenum:

Plenum (Y/N)	N
Plenum Number	82842

Electrical Characteristics (Overall):

Nom. Characteristic Impedance

Impedance (Ohm)
120.000

Nom. Capacitance Conductor to Conductor

Capacitance (pF/ft)
12.800

Nom. Capacitance Cond. to Other Conductor & Shield

Capacitance (pF/ft)
23.000

Nominal Velocity of Propagation

VP (%)
66

Nominal Delay

Delay (ns/ft)
1.600

Nom. Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
24.000

Nom. Attenuation

Attenuation (dB/100 ft.)
0.6 (@ 1 MHz)

Max. Operating Voltage - UL

Voltage
300 V RMS

Max. Recommended Current

Current
2.1 Amps per conductor @ 25°C

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
2.200

PUT UPS AND COLORS:

Item #	Putup	Ship Weight	Jacket Color	Notes	Item Desc
9842 060100	100 FT	5.800 LB	CHROME		2 PR #24 PE SH PVC CHR
9842 0601000	1,000 FT	57.000 LB	CHROME	C	2 PR #24 PE SH PVC CHR
9842 060500	500 FT	29.500 LB	CHROME	C	2 PR #24 PE SH PVC CHR

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Notes:

C = CRATE REEL PUT-UP.

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