Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



9843 Multi-Conductor - Low Capacitance Computer Cables 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
3	24	7x32	TC - Tinned Copper

Insulation

Insulation Material:

Insulation 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: 9.144 mm

Pair

Pair Color Code Chart:

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

Pair Lay Length & Direction:

Lay Length (mm)	Twists/ft. (twist/m)	Direction
25.3999	39.372	Left Hand Lay

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +80°C	
UL Temperature Rating:	80°C (UL AWM Style 2919)	
Bulk Cable Weight:	108.639 Kg/Km	
Max. Recommended Pulling Tension:	469.285 N	
Min. Bend Radius (Install)/Minor Axis:	95.250 mm	

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Applicable Specifications and Agency C	Compliance (Overall)				
Applicable Standards & Environmental Programs					
NEC/(UL) Specification:	CM				
CEC/C(UL) Specification:	CM				
AWM Specification:	UL Style 2919 (300 V 80°C)				
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				
Flame Test					
UL Flame Test:	UL1685 UL Loading				
Plenum/Non-Plenum					
Plenum (Y/N):	No				

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance	(Ohm)
120	

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
41.997

Nom. Capacitance Cond. to Other Conductor & Shield:



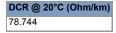
Nominal Velocity of Propagation:



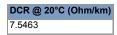
Nominal Delay:



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:



Nom. Attenuation:

Attenuation (dB/100m) 0.6 (@ 1 MHz)

Max. Operating Voltage - UL:

Voltage 300 V RMS (UL AWM Style 2919)

Max. Recommended Current:

Current

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1.54 Amps per conductor @ 25°C

Related Documents:

No related documents are available for this product

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9843 060100	30 MT	3.221 KG	CHROME		3 PR #24 PE SH PVC
9843 0601000	305 MT	30.391 KG	CHROME	С	3 PR #24 PE SH PVC
9843 060500	152 MT	15.649 KG	CHROME	С	3 PR #24 PE SH PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Date: 07-30-2010 Revision Number: 2

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