Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

8175 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422 & Digital



For more Information please call

1-800-Belden1



Description:

24 AWG stranded (7x32) TC conductors, Datalene® insulation, twisted pairs individually Beldfoil® shielded + overall 100% Beldfoil + TC braid shield (65% coverage), drain wire, PVC jacket.

Physical Characteristic	s (Overall)
Conductor	
AWG:	
# Pairs AWG Stranding C 15 24 7x32 T	
15 24 7x52 1	C - Tinned Copper
Insulation	
Insulation Material:	
Insulation Trade Name Insulation® FP	E - Foam Polyethylene
Inner Shield Inner Shield Material:	
Inner Shield Trade Name 1	Type Inner Shield Material Coverage (%)
	Tape Aluminum Foil-Polyester Tape 100
Inner Shield Drain Wire A	
AWG	
24	
Inner Shield Drain Wire	Stranding: Stranded
Inner Shield Drain Wire	Conductor Material: TC - Tinned Copper
Outer Shield	
Outer Shield Material:	
	e Name Type Outer Shield Material Coverage (%)
1 Beldfoil® 2	Tape Aluminum Foil-Polyester Tape 100 Braid TC - Tinned Copper 65
Outer Jacket	
Outer Jacket Material: Outer Jacket Material	
PVC - Polyvinyl Chloride	
Overall Cable	
Overall Nominal Diamet	er: 0.665 in.
Pair	
Pair Color Code Chart:	
Number Color 1 Black & Red	
2 Black & White	
3 Black & Green	
4 Black & Blue	
5 Black & Yellow	
6 Black & Brown	
7 Black & Orange 8 Red & White	

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9	Red & Green
10	Red & Blue
11	Red & Yellow
12	Red & Brown
13	Red & Orange
14	Green & White
15	Green & Blue

Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
1.500	8.000

Mechanical Characteristics (Overall)

Operating Temperature Range:	-40°C To +60°C	
Non-UL Temperature Rating:	60°C (UL AWM Style 2493)	
Bulk Cable Weight:	234 lbs/1000 ft.	
Max. Recommended Pulling Tension:	315 lbs.	
Min. Bend Radius (Install)/Minor Axis:	6.750 in.	

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environn	nental Programs
NEC/(III.) Specification:	CM

NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	СМ
AWM Specification:	UL Style 2493 (300 V 60°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
Plenum/Non-Plenum	
Plenum (Y/N):	No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm) 100

00

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

12.5

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

22

Nominal Velocity of Propagation:

VP (%) 78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

²⁴

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Nominal Outer Shield DC Resistance:

	DCR @ 20°C (Ohm/1000 ft)		
	2.5		
	Ind. Pair Nominal Shield D Deg. C:	C Resistance @ 20	18 Ohm/1000 ft
M	ax. Operating Voltage - UL:		
	Voltage		
	300 V RMS (UL AWM Style 2493		

Max. Recommended Current:

1.1 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
8175 060100	100 FT	22.600 LB	CHROME	С	15 PR #24 FRFPE SHLD PVC
8175 0601000	1,000 FT	210.000 LB	CHROME	С	15 PR #24 FRFPE SHLD PVC
8175 060500	500 FT	104.500 LB	CHROME	С	15 PR #24 FRFPE SHLD PVC

Notes:

C = CRATE REEL PUT-UP.

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