Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

8170 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422 & Digital



For more Information please call

1-800-Belden1



General Description:

UL Temperature Rating:

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 Characteristics (Overa	all)						
Conductor AWG:							
# Pairs AWG Stranding Conducto	or Material						
-	ed Copper						
Total Number of Conductors:		20					
Insulation							
Insulation Material:							
Insulation Trade Name Insulation	Material Wall Thickness (mm)	m)					
Datalene® FPE - Foam	n Polyethylene 0.483						
Inner Shield Inner Shield Material:							
Inner Shield Trade Name Type Inner Shield Material Coverage (%)							
Beldfoil® (Z-Fold®) Tape Alu	uminum Foil-Polyester Tape 100						
Inner Shield Drain Wire AWG:							
AWG							
24							
Inner Shield Drain Wire Stranding:	Str	Stranded					
Inner Shield Drain Wire Conductor I	Material: TC	TC - Tinned Copper					
Outer Shield							
Outer Shield Material:							
Layer # Outer Shield Trade Name 1 Beldfoil®	Tape Aluminum Foil-Polyester Tape	Coverage (%)					
	Braid TC - Tinned Copper	65					
Outer Jacket							
Outer Jacket Material:							
Outer Jacket Material Nom. Wall PVC - Polyvinyl Chloride 1.600	I Thickness (mm)						
Overall Cable							
Overall Nominal Diameter:	14	14.834 mm					
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 9 Red & Green							
10 Red & Blue							
Mechanical Characteristics (Ov	verall)						
Operating Temperature Range:	-40	-40°C To +60°C					

60°C (UL AWM Style 2493)

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Bulk Cable Weight:	220.254 Kg/Km		
Max. Recommended Pulling Tension:	1000.845 N		
Min. Bend Radius/Minor Axis:	152.400 mm		
Applicable Specifications and Agency Compliance	e (Overall)		
Applicable Standards & Environmental Programs			
NEC/(UL) Specification:	СМ		
CEC/C(UL) Specification:	СМ		
AWM Specification:	UL Style 2493 (300 V 60°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		
Flame Test			
UL Flame Test:	UL1581 Vertical Tray		
Plenum/Non-Plenum			
Plenum (Y/N):	No		
Nom. Characteristic Impedance: Impedance (Ohm) 100 Nom. Capacitance Conductor to Conductor: Capacitance (pF/m) 41.0125 Nom. Capacitance Cond. to Other Conductor & Shield: Capacitance (pF/m) 72.182 Nominal Velocity of Propagation: VP (%) 78 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 78.744 Nominal Outer Shield DC Resistance: DCR @ 20°C (Ohm/km) 8.8587			
Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C:	59.058 Ohm/km		
Max. Operating Voltage - UL: Voltage 300 V RMS Max. Recommended Current:			
Current 1.1 Amps per conductor @ 25°C			

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8170 060100	100 FT	18.000 LB	CHROME	С	10 FS PR#24 FHDPE SH PVC
8170 0601000	1,000 FT	164.000 LB	CHROME	С	10 FS PR#24 FHDPE SH PVC
8170 060500	500 FT	83.000 LB	CHROME	С	10 FS PR#24 FHDPE SH PVC

Notes: C = CRATE REEL PUT-UP.



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