# **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



### **General Description:**

15

Green & Blue

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.

<b>Physical Ch</b>	naracteristics (	Overall)							
Conductor									
AWG:	AWG Stranding Co	nductor Mot	avial						
		- Tinned Cop							
Total Nun	nber of Conductors	:		30					
Insulation									
Insulation M									
	n Trade Name Insu			s (in.)					
Datalene	® FPE	- Foam Polye	thylene 0.019						
Inner Shield Inner Shield									
		no Innor Sh	iold Matorial Cov						
Beldfoil®	Inner Shield Trade Name Type Inner Shield Material Coverage (%)								
AWG	I Drain Wire AWG:								
24									
24									
Inner Shie	eld Drain Wire Strar	nding:		Stranded					
Inner Shie	eld Drain Wire Cond	luctor Materi	al:	TC - Tinned Copper					
Outer Shield									
		Name Type	Outer Shield Material	Coverage (%)					
-	Beldfoil®		Aluminum Foil-Polyester T						
2		Braid	TC - Tinned Copper	65					
Outer Jacket Outer Jacket									
		n. Wall Thick	ness (in.)						
	lyvinyl Chloride 0.06								
	· · ·								
Overall Cabl									
Overall N	ominal Diameter:			0.665 in.					
Pair									
Pair Color C									
Number									
1	Black & Red Black & White								
2 3	Black & Green								
4	Black & Blue								
5	Black & Yellow								
6	Black & Brown								
7	Black & Orange								
8	Red & White								
9	Red & Green								
10	Red & Blue								
11	Red & Yellow								
	Red & Brown								
13	Red & Orange								
14	Green & White								

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	ge:	-40°C To +60°C	
Non-UL Temperature Rating	:	60°C (UL AWM Style 2493)	
Bulk Cable Weight:		194 lbs/1000 ft.	
Max. Recommended Pulling	Tension:	315 lbs.	
Min. Bend Radius/Minor Axis	s:	6.750 in.	
nnliachla Specifications	and Agency Compliance (	Quarall	
Applicable Standards & Envi		Overall)	
NEC/(UL) Specification:	-	СМ	
CEC/C(UL) Specification:		СМ	
AWM Specification:		UL Style 2493 (300 V 60°C)	
EU Directive 2011/65/EU (RO	DHS II):	Yes	
EU CE Mark:		Yes	
EU Directive 2000/53/EC (EL	.V):	Yes	
EU Directive 2002/95/EC (Ro	HS):	Yes	
EU RoHS Compliance Date (	(mm/dd/yyyy):	01/01/2004	
EU Directive 2002/96/EC (WE		Yes	
EU Directive 2003/11/EC (BF		Yes	
CA Prop 65 (CJ for Wire & C	able):	Yes	
MII Order #39 (China RoHS):		Yes	
Flame Test			
UL Flame Test:		UL1581 Vertical Tray	
Plenum/Non-Plenum			
Plenum (Y/N):		No	
	(Overall)		
Nom. Characteristic Impedance: Impedance (Ohm) 100 Nom. Capacitance Conductor to C Capacitance (pF/ft) 12.5 Nom. Capacitance (pF/ft) 22 Nominal Velocity of Propagation: VP (%) 78 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 24	Conductor: r Conductor & Shield:		
Nom. Characteristic Impedance: Impedance (Ohm) 100 Nom. Capacitance Conductor to C Capacitance (pF/ft) 12.5 Nom. Capacitance cond. to Other Capacitance (pF/ft) 22 Nominal Velocity of Propagation: VP (%) 78 Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 24 Nominal Outer Shield DC Resista	Conductor: r Conductor & Shield: :	18 Ohm/1000 ft	
Impedance (Ohm)   100   100   Nom. Capacitance Conductor to C   Capacitance (pF/ft)   12.5   Nom. Capacitance Cond. to Other   Capacitance (pF/ft)   22   Nominal Velocity of Propagation:   VP (%)   78   Nom. Conductor DC Resistance:   DCR @ 20°C (Ohm/1000 ft)   24   Nominal Outer Shield DC Resistat   DCR @ 20°C (Ohm/1000 ft)   2.5   Ind. Pair Nominal Shield DC   Max. Operating Voltage - UL:   Voltage	Conductor: r Conductor & Shield: :	18 Ohm/1000 ft	
Nom. Characteristic Impedance:   Impedance (Ohm)   100   Nom. Capacitance Conductor to 0   Capacitance (pF/ft)   12.5   Nom. Capacitance cond. to Other   Capacitance (pF/ft)   12.5   Nom. Capacitance (pF/ft)   22   Nominal Velocity of Propagation:   VP (%)   78   Nom. Conductor DC Resistance:   DCR @ 20°C (Ohm/1000 ft)   24   Nominal Outer Shield DC Resista   DCR @ 20°C (Ohm/1000 ft)   2.5   Ind. Pair Nominal Shield DC   Max. Operating Voltage - UL:   Voltage   300 V RMS	Conductor: r Conductor & Shield: :	18 Ohm/1000 ft	
Nom. Characteristic Impedance:   Impedance (Ohm)   100   Nom. Capacitance Conductor to 0   Capacitance (pF/ft)   12.5   Nom. Capacitance cond. to Other   Capacitance (pF/ft)   12.5   Nom. Capacitance (pF/ft)   22   Nominal Velocity of Propagation:   VP (%)   78   Nom. Conductor DC Resistance:   DCR @ 20°C (Ohm/1000 ft)   24   Nominal Outer Shield DC Resista   DCR @ 20°C (Ohm/1000 ft)   2.5   Ind. Pair Nominal Shield DC   Max. Operating Voltage - UL:   Voltage   300 V RMS	Conductor: r Conductor & Shield: :	18 Ohm/1000 ft	
Iom. Characteristic Impedance: Impedance (Ohm) 100 Iom. Capacitance Conductor to O Capacitance (pF/ft) 12.5 Iom. Capacitance Cond. to Other Capacitance (pF/ft) 22 Iominal Velocity of Propagation: VP (%) 78 Iom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 24 Iominal Outer Shield DC Resista DCR @ 20°C (Ohm/1000 ft) 2.5 Ind. Pair Nominal Shield DC Iax. Operating Voltage - UL: Voltage 300 V RMS Iax. Recommended Current:	Conductor: r Conductor & Shield: 	18 Ohm/1000 ft	
Iom. Characteristic Impedance: Impedance (Ohm) 100 Iom. Capacitance Conductor to C Capacitance (pF/ft) 12.5 Iom. Capacitance cond. to Other Capacitance (pF/ft) 22 Iominal Velocity of Propagation: VP (%) 78 Iom. Conductor DC Resistance: DCR @ 20°C (Ohm/1000 ft) 24 Iominal Outer Shield DC Resista DCR @ 20°C (Ohm/1000 ft) 2.5 Ind. Pair Nominal Shield DC Max. Operating Voltage - UL: Voltage 300 V RMS Max. Recommended Current: Current 1.1 Amps per conductor @ 25°C	Conductor: r Conductor & Shield: 	18 Ohm/1000 ft	
100   Nom. Capacitance Conductor to G   Capacitance (pF/ft)   12.5   Nom. Capacitance Cond. to Other   Capacitance (pF/ft)   22   Nominal Velocity of Propagation:   VP (%)   78   Nom. Conductor DC Resistance:   DCR @ 20°C (Ohm/1000 ft)   24   Nominal Outer Shield DC Resista   DCR @ 20°C (Ohm/1000 ft)   2.5   Ind. Pair Nominal Shield DC   Wax. Operating Voltage - UL:   Voltage   300 V RMS   Wax. Recommended Current:   Current   1.1 Amps per conductor @ 25°C   Put Ups and Colors:	Conductor: r Conductor & Shield: 	18 Ohm/1000 ft	Item Desc

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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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