# **Detailed Specifications & Technical Data**



METRIC MEASUREMENT VERSION

## 8155 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/485



For more Information please call

1-800-Belden1



#### **General Description:**

28 AWG stranded (7x36) TC conductors, Datalene® insulation, overall Beldfoil® (100% coverage) + TC braid shield (65% coverage), 28 AWG stranded TC drain wire, PVC jacket.

sical C	Characteristics (Over	ran/				
nductor		,				
AWG:						
	AWG Stranding Conduct	tor Mat	erial			
25	28 7x36 TC - Tini	ned Co	pper			
Total Nr	umber of Conductors:				50	
ulation	Material:					
	ion Trade Name Insulation	Matori	al Wall T	hickness	(mm)	
Datalen			ethylene 0.381	mexiless	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
ter Shie						
	eld Material:	-				• (0/)
Layer #	Outer Shield Trade Name Roldfoil				Tape w/Shorting Fold	Coverage (%)
2	Beldfoil®				Tape w/Shorting Fold	65
		Diaid	TC - Tinned Co	phei		00
	eld Drain Wire AWG:					
	Stranding Drain Wire Cond		Material			
28 7	7x36 TC - Tinned Cop	per				
ter Jack	tet					
	ket Material:					
Outer J	Jacket Material Nom. Wa	II Thick	(ness (mm)			
PVC - F	Polyvinyl Chloride 1.118					
erall Cal	blo					
					14.954	
Overall	Nominal Diameter:				14.351 mm	
r						
air Color						
_	Code Chart:					
	er Color					
1	Color White/Blue & Blue/White					
1 2	White/Blue & Blue/White White/Orange & Orange/W					
1 2 3	er Color White/Blue & Blue/White White/Orange & Orange/V White/Green & Green/Wh	ite				
1 2 3 4	er Color White/Blue & Blue/White White/Orange & Orange/V White/Green & Green/Wh White/Brown & Brown/Wh	iite nite				
1 2 3 4 5	Pr Color White/Blue & Blue/White White/Orange & Orange/V White/Green & Green/Wh White/Brown & Brown/Wh White/Gray & Gray/White	iite nite				
1 2 3 4 5 6	Pr Color White/Blue & Blue/White White/Orange & Orange/V White/Green & Green/Wh White/Brown & Brown/Wh White/Gray & Gray/White Red/Blue & Blue/Red	iite nite				
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1       2       3       4       5       6       7       8       9       10       11       12       13       14       15       16       17       18       19       20	Pr Color White/Blue & Blue/White White/Orange & Orange/V White/Green & Green/Wh White/Brown & Brown/Wh White/Brown & Brown/Wh Red/Blue & Blue/Red Red/Orange & Orange/Red Red/Green & Green/Red Black/Blue & Blue/Black Black/Orange & Orange/B Black/Green & Green/Black Black/Green & Green/Black Black/Gray & Gray/Black Yellow/Crange & Orange/ Yellow/Orange & Orange/ Yellow/Green & Green/Yellow	iite iite ad Black ck ck ck v Yellow ellow w				

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### METRIC MEASUREMENT VERSION

## 8155 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/485

24     Purple/Brown & Brown/Purple       25     Purple/Gray & Gray/Purple	
Mechanical Characteristics (Overall)	
Operating Temperature Range:	-30°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	165.190 Kg/Km
Min. Bend Radius/Minor Axis:	146.050 mm
Applicable Specifications and Agency Compli Applicable Standards & Environmental Programs	ance (Overall)
NEC/(UL) Specification:	CL2
AWM Specification:	UL Style 2919 (30 V 80°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:	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) 36.091	
Nom. Capacitance Cond. to Other Conductor & Shield: Capacitance (pF/m) 65.62	
Nominal Velocity of Propagation:	
VP (%) 78	
Nom. Conductor DC Resistance: DCR @ 20°C (Ohm/km) 213.265	
Nominal Outer Shield DC Resistance: DCR @ 20°C (Ohm/km) 7.5463	
Max. Operating Voltage - UL:	
Voltage     Description       30 V RMS     UL AWM Style 2919       150 V RMS     CL2	
Max. Recommended Current: Current 0.5 Amps per conductor @ 25°C	
Notes (Overall)	

## Notes (Overall)

Notes: Datalene® insulation features include low dielectric constant and a dissipation factor for high-speed, low-distortion data handling. Physical properties include good crush resistance and light weight.

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### 8155 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/485

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8155	1 EA	0.093 LB			RKW 30-01/0,5 M
8155 060100	100 FT	12.800 LB	CHROME	С	25 PR #28 FHDPE SH PVC
8155 0601000	1,000 FT	118.000 LB	CHROME	С	25 PR #28 FHDPE SH PVC
8155 060500	500 FT	64.000 LB	CHROME	С	25 PR #28 FHDPE SH PVC

Notes:

C = CRATE REEL PUT-UP.

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product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 73/23/EEC), as amended by directive 93/68/EEC.