Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION



8148 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.

avaias!	Characteria	tics (Ove	rall)						
iysical	Characteris		nanj						
onduct	tor								
AWG:									
# Pai	rs AWG Strandin	g Conductor	r Mater	ial					
18	28 7x36	TC - Tinne							
Total	Number of Cor	nductors:			36				
nsulatio	on								
Insulati	ion Material:								
Insul	ation Trade Name	Insulation M	Aateria	l Wall Th	ickness (mm)				
Datale	ene®	FPE - Foam	Polyeth	nylene 0.381					
		1							
Outer Sh									
	Shield Material:								
	r # Outer Shield T					Coverage (%)			
1	Beldfoil®				olyester Tape w/Shorting F		-		
2			Braid	C - Tinned Cop	per	65			
Outer S	Shield Drain Wir	e AWG:							
Outer	icket Jacket Material: r Jacket Material	Nom. Wall	r	aterial					
Outer Ja Outer J Outer J PVC -	Icket Jacket Material: r Jacket Material - Polyvinyl Chloride	Nom. Wall	r	iess (mm)	11.862 mm				
Outer Ja Outer J Outer J PVC - Overall C Overal	Incket Jacket Material: r Jacket Material - Polyvinyl Chloride Cable all Nominal Diar	Nom. Wall 1.143 meter:	r	iess (mm)	11.862 mm				
Outer Ja Outer J Outer PVC - Overall C Overal Pair Co	Incket Jacket Material: r Jacket Material - Polyvinyl Chloride Cable all Nominal Diar	Nom. Wall 1.143 meter:	r	iess (mm)	11.862 mm				
Outer Ja Outer J Outer PVC - Overall C Overall Overal Pair Co Numb	Incket Jacket Material: r Jacket Material - Polyvinyl Chloride Cable all Nominal Diar plor Code Chart ber Color	Nom. Wall 1.143 meter:	r	iess (mm)	11.862 mm				
Outer Ja Outer J Outer PVC - Overall C Overall C Overal Pair Co Numb 1	Acket Material: r Jacket Material: - Polyvinyl Chloride Cable all Nominal Diar plor Code Chart ber Color White/Blue & E	Nom. Wall 1.143 meter: : Slue/White	Thickn	iess (mm)	11.862 mm				
Outer Ja Outer J Outer PVC - Overall C Overall C Overall Pair Co Numt 1 2	Acket Material: r Jacket Material: r Jacket Material: - Polyvinyl Chloride Cable all Nominal Diar plor Code Chart ber Color White/Blue & E White/Orange	Nom. Wall 1.143 meter: Slue/White & Orange/Wh	Thickn	iess (mm)	11.862 mm				
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Outer Ja Outer Ja Outer J PVC - Overall C Overall C Overall Pair Co Numb 1 2 3 4	Acket Material: r Jacket Material: r Jacket Material: - Polyvinyl Chloride Cable all Nominal Diar blor Code Chart ber Color White/Blue & E White/Gray & White/Brown & White/Brown & White/Gray & C Red/Blue & Blu	Nom. Wall 1.143 meter: Blue/White & Orange/White Brown/White Green/White Jue/Red	Thickn	iess (mm)	11.862 mm				
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15	Black/Gray & Gray/Black
16	Yellow/Blue & Blue/Yellow
17	Yellow/Orange & Orange/Yellow
18	Yellow/Green & Green/Yellow

Mechanical Characteristics (Overall)	
Operating Temperature Range:	-30°C To +80°C
UL Temperature Rating:	80°C (UL AWM Style 2919)
Bulk Cable Weight:	126.497 Kg/Km
Min. Bend Radius/Minor Axis:	120.650 mm
Applicable Specifications and Agency Co	ompliance (Overall)
Applicable Standards & Environmental Progr	
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 & Sh	ield:
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)	
8.5306	
Max. Operating Voltage - UL:	

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Voltage	Description		
30 V RMS	UL AWM Style 2919		
150 V RMS	CL2		

Max. Recommended Current:

Current

0.6 Amps per conductor @ 25°C

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.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8148 0601000	1,000 FT	92.000 LB	CHROME	С	18 PR #28 FHDPE SH PVC
8148 060500	500 FT	47.500 LB	CHROME	С	18 PR #28 FHDPE SH PVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 10-01-2012

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