Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

8118 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422



For more Information please call

1-800-Belden1



General Description:

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

SICAL (Characteristics (Over							
nductor								
WG:								
# Pairs	AWG Stranding Conduct	or Material						
18	24 7x32 TC - Tinn	ed Copper						
Total N	umber of Conductors:			36				
ulation								
nsulation	Material:							
Insulat	tion Trade Name Insulation	Material V	Vall Thickness (r	nm)				
Dataler	ne® FPE - Foan	n Polyethylene 0	.381					
ter Shie	Jd.	· · ·						
	eld Material:							
Layer	# Outer Shield Trade Name	Type Outer Sh	ield Material		Coverage (%)			
1	Beldfoil®	Tape Aluminum	n Foil-Polyester T	ape w/Shorting Fold	100			
2		Braid TC - Tinn	ed Copper		65	1		
)uter Shi	eld Drain Wire AWG:	I			1	1		
	Stranding Drain Wire Cond	uctor Material						
	7x32 TC - Tinned Copp							
ter Jack								
	ket Material:							
		Thickness (mm	ו)					
IPV(:-I								
erall Ca	Polyvinyl Chloride 1.219 ble Nominal Diameter:			13.640 mm				
erall Ca Overall r	ble			13.640 mm			 	
erall Ca Overall r Pair Color	ble Nominal Diameter:	_		13.640 mm			 	
erall Ca Overall r Pair Color	ble Nominal Diameter: r Code Chart:	_		13.640 mm			 	
erall Ca Overall r Pair Color Numbe	ble Nominal Diameter: r Code Chart: er Color	nite		13.640 mm			 	
erall Ca Overall r Pair Color Numbe	ble Nominal Diameter: r Code Chart: er Color White/Blue & Blue/White			13.640 mm			 	
erall Cal Overall r Pair Color Numbe 1 2	ble Nominal Diameter: r Code Chart: er Color White/Blue & Blue/White White/Orange & Orange/W	e		13.640 mm			 	
erall Cal Overall r Pair Color Numbe 1 2 3	ble Nominal Diameter: r Code Chart: er Color White/Blue & Blue/White White/Orange & Orange/W White/Green & Green/White	e		13.640 mm			 	
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erall Ca Overall r Pair Color 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	ble Nominal Diameter: r Code Chart: er Color White/Blue & Blue/White White/Orange & Orange/W White/Green & Green/White White/Gray & Gray/White Red/Orange & Orange/Red Red/Orange & Orange/Red Red/Gray & Gray/Red Black/Blue & Blue/Black Black/Orange & Orange/Bl Black/Green & Green/Black Black/Green & Blue/Yellow	e e I ack k ellow		13.640 mm				
erall Ca Overall r air Color 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18	ble Nominal Diameter: r Code Chart: r Code Chart: white/Blue & Blue/White White/Brown & Brown/White White/Brown & Brown/White Red/Blue & Blue/Red Red/Orange & Orange/Red Red/Orange & Orange/Red Red/Green & Green/Red Black/Blue & Blue/Black Black/Gray & Gray/Red Black/Orange & Orange/Bl Black/Gray & Gray/Black Black/Green & Green/Blac Black/Gray & Gray/Black Yellow/Blue & Blue/Yellow Yellow/Orange & Orange/Yellow	e e l l ack k k iellow		13.640 mm				
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Bulk Cable Weight:	197.931 Kg/Km
Max. Recommended Pulling Tension:	905.209 N
Min. Bend Radius/Minor Axis:	139.700 mm
pplicable Specifications and Agency Compliance	e (Overall)
Applicable Standards & Environmental Programs	
NEC/(UL) Specification:	CM
CEC/C(UL) Specification:	CM
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
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) 6.8901 Max. Operating Voltage - UL: Voltage Description 30 V RMS UL AWM Style 2919 300 V RMS CM Max. Recommended Current: Current .88 Amps per conductor @ 25°C	
lotes (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
8118 060100	100 FT	15.000 LB	CHROME	С	18 PR #24 FHDPE SH PVC
8118 0601000	1,000 FT	141.000 LB	CHROME	С	18 PR #24 FHDPE SH PVC

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0	118 060500	500 FT	70 500 1 0	CUDOME	0	18 PR #24 EHDRE SH DVC
10	118 060500	1500 F I	70.500 LB	CHROME	0	18 PR #24 FHDPE SH PVC

Notes

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 08-31-2012

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