Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION





8168 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422 & Digital

For more Information please call

1-800-Belden1



General Description:

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.

16

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
8	24	7x32	TC - Tinned Copper

Total Number of Conductors:

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Datalene®	FPE - Foam Polyethylene	0.483

Inner Shield

Inner Shield Material:

Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
Beldfoil® (Z-Fold®)	Tape	Aluminum Foil-Polyester Tape	100

Inner Shield Drain Wire AWG:



Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Shield

Outer Shield Material:

Laye	er # Outer Shield Trade Nan	ne Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	65

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.219

Overall Cable

Overall Nominal Diameter: 12.167 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				

Page 1 of 3 11-08-2019

Detailed Specifications & Technical Data





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8 Red & White

Mechanical Characteristics (Overall)						
Operating T	emperature Range:	-40°C To +60°C				
UL Tempera	ature Rating:	60°C (UL AWM Style 2493)				
Bulk Cable	Weight:	160.726 Kg/Km				
Max. Recon	nmended Pulling Tension:	818.469 N				
Min. Bend F	Radius/Minor Axis:	127 mm				
Applicable Sp	Applicable Specifications and Agency Compliance (Overall)					
Applicable Sta	andards & Environmental Progra	ms				
NEC/(UL) S	pecification:	CM				
CEC/C(UL)	Specification:	CM				
AWM Speci	fication:	UL Style 2493 (300 V 60°C)				
EU Directive	e 2011/65/EU (ROHS II):	Yes				
EU CE Mark	C:	Yes				
EU Directive	e 2000/53/EC (ELV):	Yes				
EU Directive	e 2002/95/EC (RoHS):	Yes				
EU RoHS C	ompliance Date (mm/dd/yyyy):	01/01/2004				

Yes

Yes

Yes

Yes

Flame Test

UL Flame Test: UL1581 Vertical Tray

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

EU Directive 2002/96/EC (WEEE):

CA Prop 65 (CJ for Wire & Cable):

EU Directive 2003/11/EC (BFR):

MII Order #39 (China RoHS):

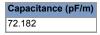
Nom. Characteristic Impedance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:



Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 78.744

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 9.843

Page 2 of 3 11-08-2019

Detailed Specifications & Technical Data

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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
8168 060100	100 FT	12.500 LB	CHROME	С	8 FS PR #24 FHDPE SH PVC
8168 0601000	1,000 FT	115.000 LB	CHROME	С	8 FS PR #24 FHDPE SH PVC
8168 060500	500 FT	61.500 LB	CHROME	С	8 FS PR #24 FHDPE SH PVC

Notes:

C = CRATE REEL PUT-UP.

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

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