Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



8148 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/485



For more Information please call

1-800-Belden1



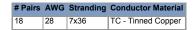
General Description:

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.

Physical Characteristics (Overall)

Conductor

AWG:



Total Number of Conductors:

36

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Wall Thickness (in.)
Datalene®	FPE - Foam Polyethylene	0.015

Outer Shield

Outer Shield Material:

Layer #	Layer # Outer Shield Trade Name		Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape w/Shorting Fold	100
2		Braid	TC - Tinned Copper	65

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
28	7x36	TC - Tinned Copper

Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.045

Overall Cable

Overall Nominal Diameter:

0.467 in.

Pair

Pair Color Code Chart:

Number	Color				
1	White/Blue & Blue/White				
2	White/Orange & Orange/White				
3	White/Green & Green/White				
4	White/Brown & Brown/White				
5	White/Gray & Gray/White				
6	Red/Blue & Blue/Red				
7	Red/Orange & Orange/Red				
8	Red/Green & Green/Red				
9	Red/Brown & Brown/Red				
10	Red/Gray & Gray/Red				
11	Black/Blue & Blue/Black				
12	Black/Orange & Orange/Black				
13	Black/Green & Green/Black				
14	Black/Brown & Brown/Black				
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)

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Bulk Cable Weight:	85 lbs/1000 ft.
Min. Bend Radius/Minor Axis:	4.750 in.
pplicable Specifications and Agency Compliance	(Overall)
pplicable Standards & Environmental Programs	
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
lame Test	
UL Flame Test:	UL1685 UL Loading

Fla

Ap

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

Nominal Velocity of Propagation:

VP (%) 78

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Max. Operating Voltage - UL:

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.

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

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