Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION



9681 Multi-Conductor - Low Capacitance Cable for EIA RS-232/422 Applications



For more Information please call

1-800-Belden1



General Description:

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

Physical Characteristics (Overall) Conductor AWG: # Pairs AWG Stranding Conductor Material 24 7x32 TC - Tinned Copper **Total Number of Conductors:** 8 Insulation Insulation Material: Insulation Material | Wall Thickness (in.) PE - Polyethylene 0.016 **Outer Shield** Outer Shield Material: Outer Shield Trade Name Type Outer Shield Material Coverage (%) Tape | Aluminum Foil-Polyester Tape | 100 Outer Shield Drain Wire AWG: AWG Stranding Drain Wire Conductor Material 7x32 TC - Tinned Copper **Outer Jacket Outer Jacket Material:** Outer Jacket Material Nom. Wall Thickness (in.) PVC - Polyvinyl Chloride 0.035 **Overall Cable Overall Nominal Diameter:** 0.307 in. Pair Pair Color Code Chart: Number Color White/Blue & Blue/White White/Orange & Orange/White White/Green & Green/White White/Brown & Brown/White

Mechanical Characteristics (Overall)			
	Operating Temperature Range:	-20°C To +80°C	
	Non-UL Temperature Rating:	80°C (UL AWM Style 2919)	
	Bulk Cable Weight:	39 lbs/1000 ft.	
	Max. Recommended Pulling Tension:	44 lbs.	
	Min. Bend Radius/Minor Axis:	3.250 in.	

Applicable Specifications and Agency Compliance (Overall)					
Applica	Applicable Standards & Environmental Programs				
NE	C/(UL) Specification:	CM			
CE	C/C(UL) Specification:				
AW	/M 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			

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EU Directive 2002/95/EC (Ro	HS):	Yes		
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004		
EU Directive 2002/96/EC (WEEE):		Yes		
EU Directive 2003/11/EC (BF	R):	Yes		
CA Prop 65 (CJ for Wire & C	able):	Yes		
MII Order #39 (China RoHS):		Yes		
Flame Test	lame Test			
UL Flame Test:		UL1685 UL Loading		
Plenum/Non-Plenum	lenum/Non-Plenum			
Plenum (Y/N):		No		

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)	
100	

Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:



Nom. Conductor DC Resistance:

DCR @ 20°C	(Ohm/1000 ft)
24	

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
14.4

Max. Operating Voltage - UL:

Voltage	Description		
30 V RMS	UL AWM Style 2919		
300 V RMS	CM		

Max. Recommended Current:

Current
2.1 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9681 0601000	1,000 FT	43.000 LB	CHROME	С	4 PR #24 PER FS PVC
9681 060500	500 FT	23.000 LB	CHROME	С	4 PR #24 PER FS PVC
9681 0605000	5,000 FT	220.000 LB	CHROME		4 PR #24 PER FS PVC

Notes: C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 09-10-2012

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product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

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