# **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 24 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)							
Applicable Standards & Environmental Programs							
NEC/(UL) Specification:	CM						
CEC/C(UL) Specification:	СМ						
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						

Page 1 of 2 10-30-2014

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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
Plenum/Non-Plenum	
Plenum (Y/N):	No

#### **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

Nominal Velocity of Propagation:

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 14 4

Max. Operating Voltage - UL:

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

Max. Recommended 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 73/23/EEC), as amended by directive 93/68/EEC.

Page 2 of 2