Detailed Specifications & Technical Data

METRIC 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 (mm) PE - Polyethylene 0.406 **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 (mm) PVC - Polyvinyl Chloride 0.889 **Overall Cable Overall Nominal Diameter:** 7.798 mm Pair Pair Color Code Chart: Number Color White/Blue & Blue/White White/Orange & Orange/White White/Green & Green/White

Mecha	nical	Ch	aracte	ristic	s (Ov	erall)
_		_	_	_		

White/Brown & Brown/White

Operating Temperature Range:	-20°C 10 +80°C	
Non-UL Temperature Rating:	80°C (UL AWM Style 2919)	
Bulk Cable Weight:	58.040 Kg/Km	
Max. Recommended Pulling Tension:	195.721 N	
Min. Bend Radius/Minor Axis:	82.550 mm	

Applicable Specifications and Agency Compliance (Overall)

pplicable Standards & Environmental Programs					
NEC/(UL) Specification:	СМ				
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				

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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	
ame Test		
UL Flame Test:	UL1685 UL Loading	
lenum/Non-Plenum		
Plenum (Y/N):	No	

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 50.8555

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 90.2275

Nominal Velocity of Propagation:

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 47.2464

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.

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