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
4	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 (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

Outer Shield Drain Wire 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			
1	White/Blue & Blue/White			
2	White/Orange & Orange/White			
3	White/Green & Green/White			
4	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:	58.040 Kg/Km	
Max. Recommended Pulling Tension:	195.721 N	
Min. Bend Radius/Minor Axis:	82.550 mm	

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Applicabl	Applicable Specifications and Agency Compliance (Overall)					
Applicabl	Applicable Standards & Environmental Programs					
NEC/(l	JL) Specification:	CM				
CEC/C	(UL) Specification:	CM				
AWM S	Specification:	UL Style 2919 (30 V 80°C)				
EU Dir	ective 2011/65/EU (ROHS II):	Yes				
EU CE	Mark:	Yes				
EU Dir	ective 2000/53/EC (ELV):	Yes				
EU Dir	ective 2002/95/EC (RoHS):	Yes				
EU Ro	HS Compliance Date (mm/dd/yyyy):	01/01/2004				
EU Dir	ective 2002/96/EC (WEEE):	Yes				
EU Dir	ective 2003/11/EC (BFR):	Yes				
CA Pro	op 65 (CJ for Wire & Cable):	Yes				
MII Ord	der #39 (China RoHS):	Yes				
Flame Test						
UL Fla	me Test:	UL1685 UL Loading				
Plenum/Non-Plenum						
Plenur	m (Y/N):	No				

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:



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:

VP (%) 66

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 78.744

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 47.2464

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

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9681 0601000	305 MT	19.505 KG	CHROME	С	4 PR #24 PER FS PVC
9681 060500	152 MT	10.433 KG	CHROME	С	4 PR #24 PER FS PVC
9681 0605000	1,524 MT	99.791 KG	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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