Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



9684 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-232/422

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:

# Conductors	# Pairs	AWG	Stranding	Conductor Material
1	12	24	7x32	TC - Tinned Copper

Total Number of Conductors: 25

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: 11.303 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				
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				
Single	Gray				

Page 1 of 3 10-30-2013

Detailed Specifications & Technical Data





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Me	chanical Characteristics (Overall)	
	Operating Temperature Range:	-20°C To +80°C
	Non-UL Temperature Rating:	80°C (UL AWM Style 2919)
	Bulk Cable Weight:	126.497 Kg/Km
	Max. Recommended Pulling Tension:	591.611 N
	Min. Bend Radius/Minor Axis:	114.300 mm
Apı	olicable Specifications and Agency Com	oliance (Overall)
Аp	plicable Standards & Environmental Program	s
	NEC/(UL) Specification:	CM
	CEC/C(UL) Specification:	CM
	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
Fla	me Test	

Flame Test

UL Flame Test: UL1685 UL Loading

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

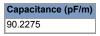
Nom. Characteristic Impedance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:



Nominal Velocity of Propagation:



Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 78.744

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 39.372

Max. Operating Voltage - UL:

Voltage Description

Page 2 of 3 10-30-2013

Detailed Specifications & Technical Data

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	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
9684 0601000	305 MT	42.184 KG	CHROME	С	12PR+1#24 FRHDPE FS PVC
9684 060500	152 MT	21.546 KG	CHROME	С	12PR+1#24 FRHDPE FS PVC

Notes:

C = CRATE REEL PUT-UP.

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

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