## **Detailed Specifications & Technical Data**

#### **ENGLISH 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.

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## **Physical Characteristics (Overall)**

## Conductor

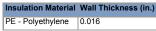
AWG:



Total Number of Conductors:

#### Insulation

Insulation Material:



#### **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:

AWG Stranding		Drain Wire Conductor Material			
24	7x32	TC - Tinned Copper			

#### **Outer Jacket**

Outer Jacket Material:

	Nom. Wall Thickness (in.)
PVC - Polyvinyl Chloride	0.035

#### **Overall Cable**

Overall Nominal Diameter: 0.445 in.

#### 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

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-20°C To +80°C	
Non-UL Temperature Rating:	80°C (UL AWM Style 2919)	
Bulk Cable Weight:	85 lbs/1000 ft.	
Max. Recommended Pulling Tension:	133 lbs.	
Min. Bend Radius/Minor Axis:	4.500 in.	

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

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			
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			
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:

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) 12

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
9684 0601000	1,000 FT	93.000 LB	CHROME	С	12PR+1#24 FRHDPE FS PVC
9684 060500	500 FT	47.500 LB	CHROME	С	12PR+1#24 FRHDPE FS PVC

Notes: C = CRATE REEL PUT-UP.

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

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

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