# **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.

# Physical Characteristics (Overall) Conductor AWG:

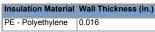
 # Conductors
 # Pairs
 AWG
 Stranding
 Conductor Material

 1
 12
 24
 7x32
 TC - Tinned Copper

Total Number of Conductors: 25

#### Insulation

Insulation Material:



#### **Outer Shield**

Outer Shield Material:



#### 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.	

Page 1 of 3 09-11-2017

# **Detailed Specifications & Technical Data**



-



# 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:	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			
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/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.

Page 2 of 3 09-11-2017

# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



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

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

© 2017 Belden, Inc All Rights Reserved

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product

product. ´ Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).

Page 3 of 3