# **Detailed Specifications & Technical Data**

### **ENGLISH MEASUREMENT VERSION**



# Y61958 Multi-Conductor - Low Capacitance Computer Cable for EIA RS-485 Applications

For more Information please call

1-800-Belden1



## **General Description:**

24 AWG stranded (7x32) TC conductors, polyethylene insulation, twisted pairs, overall Beldfoil® (100% coverage) + TC braid shield (90% coverage), 24 AWG stranded TC drain wire, PVC jacket

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## **Physical Characteristics (Overall)**

### Conductor

#### AWG:

# Pairs	AWG	Stranding	<b>Conductor Material</b>
2	24	7x32	TC - Tinned Copper

Total Number of Conductors:

#### Insulation

#### **Insulation Material:**

Insulation Material	Wall Thickness (in.)
PE - Polyethylene	0.022

#### **Outer Shield**

#### **Outer Shield Material:**

Layer # Outer Shield Trade Name		Type	Outer Shield Material	Coverage (%)	
	1 Beldfoil®		Tape	Aluminum Foil-Polyester Tape	100
	2		Braid	TC - Tinned Copper	90

## 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 (in.)
PVC - Polyvinyl Chloride	0.033

#### **Overall Cable**

Overall Nominal Diameter: 0.337 in.

#### Pair

#### Pair Color Code Chart:

Number	Color
1	White/Blue & Blue/White
2	White/Orange & Orange/White

# **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-30°C To +80°C
UL Temperature Rating:	80°C
Bulk Cable Weight:	49 lbs/1000 ft.
Max. Recommended Pulling Tension:	87 lbs.
Min. Bend Radius/Minor Axis:	3.400 in.

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pplicable 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		
num/Non-Plenum			
Plenum (Y/N):	No		

## **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:



Nom. Capacitance Conductor to Conductor:



Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
23

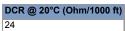
Nominal Velocity of Propagation:



**Nominal Delay:** 



Nom. Conductor DC Resistance:



Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 2.2

Nom. Attenuation:

Attenuation (dB/100 ft.) Attenuation (MHz)
0.600 1

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

Current

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2.1 Amps per conductor @ 25°C

Notes:

Revision Number: 0 Revision Date: 09-11-2014

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