# **Detailed Specifications & Technical Data**

### METRIC MEASUREMENT VERSION



## 85164 Multi-Conductor - High-Temperature Control and Instrumentation Cable



For more Information please call

1-800-Belden1



### **General Description:**

20 AWG stranded (7x28) TC conductors, Tefzel® insulation, pairs cabled together, overall Beldfoil Aluminum-Kapton® shield (100% coverage), drain wire, Tefzel® material jacket.

### **Physical Characteristics (Overall)** Conductor AWG: # Pairs AWG Stranding Conductor Material 20 7x28 TC - Tinned Copper **Total Number of Conductors:** 8 Insulation Insulation Material: Insulation Trade Name Insulation Material Wall Thickness (mm) ETFE - Ethylene Tetrafluoroethylene | 0.381 **Outer Shield** Outer Shield Material: Outer Shield Trade Name Type Outer Shield Material Coverage (%) Tape | Aluminum-Kapton® Foil | 100 Outer Shield Drain Wire AWG: AWG Stranding Drain Wire Conductor Material 22 7x30 TC - Tinned Copper **Outer Jacket Outer Jacket Material:** Outer Jacket Trade Name Outer Jacket Material Nom. Wall Thickness (mm) Tefzel® ETFE - Ethylene Tetrafluoroethylene | 0.635 **Overall Cable Overall Nominal Diameter:** 8.738 mm Pair Pair Color Code Chart: Number Color Black & Red Black & White Black & Green Black & Blue **Mechanical Characteristics (Overall)** Operating Temperature Range: -60°C To +150°C

Operating remperature range.	-00 0 10 130 0
Bulk Cable Weight:	98.221 Kg/Km
Max. Recommended Pulling Tension:	498.198 N
Min. Bend Radius/Minor Axis:	88.900 mm

# **Applicable Specifications and Agency Compliance (Overall)**

Applicable	Standards	& Environme	ental	Program	IS

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):	04/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes

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	CA Prop 65 (CJ for Wire & Cable):	Yes
	MII Order #39 (China RoHS):	Yes
Plei	num/Non-Plenum	
	Plenum (Y/N):	No

### **Electrical Characteristics (Overall)**

Nom. Characteristic Impedance:

Impedance (Ohm)

Nom. Inductance:

Inductance (µH/m) 0.610266

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 75.463

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 131.24

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 30.5133

Max. Operating Voltage - Non-UL:

Voltage 300 V RMS

Max. Recommended Current:

Current 4 Amps per conductor @ 25°C

### Notes (Overall)

Notes: Tefzel and Kapton are DuPont trademarks

### **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
85164 368100	100 FT	8.300 LB	CLEAR, TRANSPARENT	С	4 PR#20 TEFZEL FS TEFZEL
85164 3681000	1,000 FT	71.000 LB	CLEAR, TRANSPARENT	С	4 PR#20 TEFZEL FS TEFZEL

C = CRATE REEL PUT-UP.

Revision Date: 12-06-2012 Revision Number: 2

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