# **Detailed Specifications & Technical Data**

#### METRIC MEASUREMENT VERSION





## 83704 Multi-Conductor - Audio, Control and Instrumentation Cable

For more Information please call

1-800-Belden1



# **General Description:**

16 AWG stranded (19x29) TC conductors, conductors cabled, plenum, FEP insulation, overall Beldfoil® (100% coverage) + TC braid shield (85% coverage) FEP jacket.

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## **Physical Characteristics (Overall)**

#### Conductor

#### AWG:

# Conductors	AWG	Stranding	Conductor Material
4	16	19x29	TC - Tinned Copper

**Total Number of Conductors:** 

#### Insulation

#### **Insulation Material:**

Insulation Trade Name	Insulation Material	Wall Thickness (mm)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.1778

#### **Outer Shield**

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

ı	Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
ľ	1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
	2		Braid	TC - Tinned Copper	85

### **Outer Jacket**

#### **Outer Jacket Material:**

Outer Jacket Trade Name	Outer Jacket Material	Nom. Wall Thickness (mm)
Teflon®	FEP - Fluorinated Ethylene Propylene	0.3556

#### **Overall Cable**

#### **Overall Cabling Color Code Chart:**

Number	Color
1	Black
2	White
3	Red
4	Green

Overall Nominal Diameter: 5.664 mm

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-70°C To +200°C
Bulk Cable Weight:	86.316 Kg/Km
Max. Recommended Pulling Tension:	538.232 N
Min. Bend Radius/Minor Axis:	57.150 mm

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

## **Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
EU Directive 2011/65/EU (ROHS II):	Yes

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## 83704 Multi-Conductor - Audio, Control and Instrumentation Cable

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
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Flame Test	
UL Flame Test:	NFPA 262
CSA Flame Test:	FT6
Plenum/Non-Plenum	
Plenum (Y/N):	Yes

# **Electrical Characteristics (Overall)**

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m) 114.835

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m) 206.703

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km) 14.5348

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km) 8.76027

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

**Current** 5.1 Amps per conductor @ 25°C

## **Notes (Overall)**

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

## **Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83704 002100	100 FT	8.000 LB	RED	С	4#16 FEP SH FEP
83704 0021000	1,000 FT	62.000 LB	RED	С	4#16 FEP SH FEP
83704 002500	500 FT	31.000 LB	RED	С	4#16 FEP SH FEP

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 08-14-2012

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