# **Detailed Specifications & Technical Data**

#### **ENGLISH MEASUREMENT VERSION**



# 83506 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information please call

1-800-Belden1



### **General Description:**

24 AWG stranded (7x32) TC conductors, conductors cabled, plenum, FEP insulated, 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
6	24	7x32	TC - Tinned Copper

Total Number of Conductors:

#### Insulation

#### Insulation Material:

Insulation Material	Wall Thickness (in.)
FEP - Fluorinated Ethylene Propylene	.006

#### **Outer Shield**

#### Outer Shield Material:

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

# Outer Jacket

# Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (in.)		
FEP - Fluorinated Ethylene Propylene	.014		

### **Overall Cable**

Overall Cabling Lay Length & Direction:



#### Overall Cabling Color Code Chart:

Number	Color
1	Black
2	White
3	Red
4	Green
5	Orange
6	Blue

Overall Nominal Diameter:

0.165 in.

## **Mechanical Characteristics (Overall)**

Operating Temperature Range:	-70°C To +200°C
Bulk Cable Weight:	26 lbs/1000 ft.
Max. Recommended Pulling Tension:	37.200 lbs.
Min. Bend Radius/Minor Axis:	1.750 in.

# **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
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes

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	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
Fla	me Test	
	UL Flame Test:	NFPA 262
	CSA Flame Test:	FT6
Ple	num/Non-Plenum	
	Plenum (Y/N):	Yes

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

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft) 5.8

Max. Operating Voltage - UL:

Voltage 300 V RMS

Max. Recommended Current:

1.4 Amps per conductor @ 25°C

### Notes (Overall)

Notes: Plenum Cables, except for Flamarrest® jacket, are suitable for Outdoor and Direct Burial application.

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

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83506 0021000	1,000 FT	28.000 LB	RED	С	6#24 FEP SH FEP
83506 002500	500 FT	15.000 LB	RED	С	6#24 FEP SH FEP

Notes: C = CRATE REEL PUT-UP.

Revision Date: 08-21-2012 Revision Number: 2

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

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