

## 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.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
6	24	7x32	TC - Tinned Copper

Total Number of Conductors: 6

#### Insulation

Insulation Material:

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

#### 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	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:

Length (in.)
1.75

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/(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
MIL Order #39 (China RoHS):	Yes

### Flame Test

UL Flame Test:	NFPA 262
CSA Flame Test:	FT6

### Plenum/Non-Plenum

Plenum (Y/N):	Yes
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### Electrical Characteristics (Overall)

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)  
20

#### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)  
36

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
24.0

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)  
5.8

#### Max. Operating Voltage - UL:

Voltage  
300 V RMS

#### Max. Recommended Current:

Current  
1.4 Amps per conductor @ 25°C

### Notes (Overall)

Notes: Plenum Cables, except for Flamarrst® 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	C	6#24 FEP SH FEP
83506 002500	500 FT	15.000 LB	RED	C	6#24 FEP SH FEP

#### Notes:

C = CRATE REEL PUT-UP.

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