

## 83662 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1



### General Description:

18 AWG stranded (19x30) TC conductors, conductors cabled, plenum, FEP insulation, overall Beldfoil® (100% coverage) + TC braid shield (85% coverage), FEP jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
12	18	19x30	TC - Tinned Copper

Total Number of Conductors: 15

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
FEP - Fluorinated Ethylene Propylene	0.1778

#### 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 (mm)
FEP - Fluorinated Ethylene Propylene	0.381

#### Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	White
3	Red
4	Green
5	Orange
6	Blue
7	White/Black
8	Red/Black
9	Green/Black
10	Orange/Black
11	Blue/Black
12	Black/White

Overall Nominal Diameter: 8.128 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Bulk Cable Weight: 183.049 Kg/Km

Max. Recommended Pulling Tension: 1912.726 N

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Min. Bend Radius/Minor Axis: 96.520 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

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. Inductance:

Inductance (µH/m)

0.459

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

108.273

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

Capacitance (pF/m)

196.86

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

19.0298

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

7.8744

#### Max. Operating Voltage - UL:

Voltage

300 V RMS

#### Max. Recommended Current:

Current

3.8 Amps per conductor @ 25°C

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83662 002100	100 FT	11.700 LB	RED	C	12#18 FEP SH FEP
83662 0021000	1,000 FT	106.000 LB	RED	C	12#18 FEP SH FEP
83662 002500	500 FT	54.500 LB	RED	C	12#18 FEP SH FEP

## METRIC MEASUREMENT VERSION

### 83662 Multi-Conductor - Audio, Control and Instrumentation Cable

**Notes:**

C = CRATE REEL PUT-UP.

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