

## 8643 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1



### General Description:

30 AWG stranded (7x38) tinned copper conductors, conductors cabled around textile strength member, polypropylene insulation, paper separator, tinned copper braid shield (95% shield coverage), PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (mm)
3	30	7x38	TC - Tinned Copper	0.3048

Total Number of Conductors: 3

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (mm)
PP - Polypropylene	0.152

#### Outer Shield

##### Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	TC - Tinned Copper	95

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.3556

#### Overall Cable

Overall Cabling Fillers: Textile Strength Member

##### Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red
3	White

Overall Cabling Separator Material: Paper Tape

Overall Nominal Diameter: 2.438 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +105°C

Non-UL Temperature Rating: 105°C

Bulk Cable Weight: 11.906 Kg/Km

Max. Recommended Pulling Tension: 100.085 N

Min. Bend Radius/Minor Axis: 25.400 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

EU Directive 2011/65/EU (ROHS II): Yes

METRIC MEASUREMENT VERSION

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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):	10/01/2005
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

### Plenum/Non-Plenum

Plenum (Y/N):	No
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### Electrical Characteristics (Overall)

#### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
82.025

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

Capacitance (pF/m)
141.083

#### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
323.178

#### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)
36.4191

#### Max. Operating Voltage - Non-UL:

Voltage
200 V RMS

#### Max. Recommended Current:

Current
0.9 Amps per conductor @ 25°C

### Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8643 060100	100 FT	1.100 LB	CHROME		BRAID 3 #30 PP BRD PVC
8643 060250	250 FT	2.750 LB	CHROME		BRAID 3 #30 PP BRD PVC

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