

## 8751 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1



### Description:

22 AWG solid tinned copper conductors, PVC insulation, twisted pairs, overall Beldfoil shield (100% coverage), 22 AWG stranded TC drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material
51	22	Solid	TC - Tinned Copper

**Total Number of Conductors:** 102

#### Insulation

##### Insulation Material:

Insulation Material	Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.254

**Insulation Resistance:** 1250 megohms/1000 ft. at 500 VDC

#### Outer Shield

##### Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100

##### Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire	Conductor Material
22	7x30		TC - Tinned Copper

#### Outer Jacket

##### Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	1.27

#### Overall Cable

**Overall Nominal Diameter:** 18.034 mm

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Blue & White
2	Orange & White
3	Green & White
4	Brown & White
5	Gray & White
6	Blue/White & White
7	Blue/Orange & White
8	Blue/Green & White
9	Blue/Brown & White
10	Blue/Gray & White
11	Orange/White & White
12	Orange/Green & White
13	Orange/Brown & White
14	Orange/Gray & White

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15	Green/White & White
16	Green/Brown & White
17	Green/Gray & White
18	Brown/White & White
19	Brown/Gray & White
20	Gray/White & White
21	Blue & Red
22	Orange & Red
23	Green & Red
24	Brown & Red
25	Gray & Red
26	Blue/White & Red
27	Blue/Orange & Red
28	Blue/Green & Red
29	Blue/Gray & Red
30	Blue/Gray & Red
31	Orange/White & Red
32	Orange/Green & Red
33	Orange/Brown & Red
34	Orange/Gray & Red
35	Green/White & Red
36	Green/Brown & Red
37	Green/Gray & Red
38	Brown/White & Red
39	Brown/Gray & Red
40	Gray/White & Red
41	Blue & Black
42	Orange & Black
43	Green & Black
44	Brown & Black
45	Gray & Black
46	Blue/White & Black
47	Blue/Orange & Black
48	Blue/Green & Black
49	Blue/Brown & Black
50	Blue/Gray & Black
51	Orange/White & Black

### Mechanical Characteristics (Overall)

<b>Operating Temperature Range:</b>	-20°C To +80°C
<b>Non-UL Temperature Rating:</b>	60°C
<b>Bulk Cable Weight:</b>	430.387 Kg/Km
<b>Max. Recommended Pulling Tension:</b>	3527.420 N
<b>Min. Bend Radius/Minor Axis:</b>	177.800 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

<b>NEC/(UL) Specification:</b>	CMG
<b>CEC/C(UL) Specification:</b>	CMG
<b>EU CE Mark:</b>	Yes
<b>EU Directive 2000/53/EC (ELV):</b>	Yes
<b>EU Directive 2002/95/EC (RoHS):</b>	Yes
<b>EU RoHS Compliance Date (mm/dd/yyyy):</b>	04/01/2005
<b>EU Directive 2002/96/EC (WEEE):</b>	Yes
<b>EU Directive 2003/11/EC (BFR):</b>	Yes

METRIC MEASUREMENT VERSION

## 8751 Multi-Conductor - Audio, Control and Instrumentation Cable

CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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### Flame Test

C(UL) Flame Test:	FT4
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### Plenum/Non-Plenum

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

### Nom. Inductance:

Inductance (µH/m)
0.606985

### Nom. Capacitance Conductor to Shield:

Capacitance (pF/m)
140.427

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
98.43

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
52.496

### Max. Operating Voltage - UL:

Voltage
300 V RMS

### Max. Recommended Current:

Current
1 Amp per conductor @ 25°C

## Notes (Overall)

**Notes:** For 38 pair polypropylene version see 8752

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8751 0601000	305 MT	174.180 KG	CHROME	C	51 PR #22 PVC SHLD PVC

### Notes:

C = CRATE REEL PUT-UP.

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