

METRIC MEASUREMENT VERSION

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

For more Information  
please call

1-800-Belden1



### General 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
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

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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)

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

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG
CEC/C(UL) Specification:	CMG
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

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:

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**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	1,000 FT	384.000 LB	CHROME	C	51 PR #22 PVC SHLD PVC

**Notes:**

C = CRATE REEL PUT-UP.

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