

# Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

## 9770 Multi-Conductor - Audio, Control and Instrumentation Cable



For more Information  
please call

1-800-Belden1



### Description:

22 AWG stranded (7x30) tinned copper conductors, conductors cabled, polypropylene insulation, overall Beldfoil® aluminum-polyester shield (100% coverage), 22 AWG stranded tinned copper drain wire, PVC jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material
3	22	7x30	TC - Tinned Copper

Total Number of Conductors: 3

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
PP - Polypropylene	0.229

#### Outer Shield

Outer Shield Material:

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

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
22	19x34	TC - Tinned Copper

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.508

#### Overall Cable

Overall Cabling Color Code Chart:

Number	Color
1	Black
2	Red
3	White

Overall Nominal Diameter: 3.683 mm

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +90°C

Bulk Cable Weight: 23.811 Kg/Km

Max. Recommended Pulling Tension: 128.998 N

Min. Bend Radius/Minor Axis: 38.100 mm

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CM

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## 9770 Multi-Conductor - Audio, Control and Instrumentation Cable

CEC/C(UL) Specification:	CM
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):	01/01/2004
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:	UL1685 UL Loading
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### Plenum/Non-Plenum

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

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)
104.992

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

Capacitance (pF/m)
196.86

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)
52.496

### Max. Operating Voltage - UL:

Voltage
300 V RMS

### Max. Recommended Current:

Current
3 Amps per conductor @ 25°C

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9770 001U1000	305 MT	8.165 KG	BROWN		3 #22 PP SHLD PVC
9770 001U500	152 MT	4.309 KG	BROWN		3 #22 PP SHLD PVC
9770 0011000	305 MT	8.165 KG	BROWN	C	3 #22 PP SHLD PVC
9770 001500	152 MT	4.082 KG	BROWN		3 #22 PP SHLD PVC
9770 0015000	1,524 MT	38.556 KG	BROWN		3 #22 PP SHLD PVC

Notes:  
C = CRATE REEL PUT-UP.

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### **9770 Multi-Conductor - Audio, Control and Instrumentation Cable**

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