

## 8777SB Multi-Conductor - Audio, Control and Instrumentation Shipboard Cable



For more Information  
please call

1-800-Belden1



### General Description:

22 AWG stranded (7x30) tinned copper conductors, twisted pairs, polypropylene insulation, individually Beldfoil® shielded (100% coverage), 22 AWG stranded tinned copper drain wire each pair, LSZH jacket.

### Usage (Overall)

Suitable Applications: Audio, Control, or Instrumentation for Marine Shipboard and Offshore use.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
3	22	7x30	TC - Tinned Copper	.030

Total Number of Conductors: 6

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)	Dia. (in.)
PP - Polypropylene	0.010	0.050

#### Inner Shield

Inner Shield Material:

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)	Stranding	Dia. (in.)	Conductor Material
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100			

Inner Shield Drain Wire AWG:

AWG
22

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material
LSZH - Low Smoke Zero Halogen

#### Overall Cable

Overall Nominal Diameter: 0.273 in.

#### Pair

Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White
3	Black & Green

### Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +105°C
UL Temperature Rating:	105°C
Bulk Cable Weight:	42 lbs/1000 ft.
Max. Recommended Pulling Tension:	79 lbs.
Min. Bend Radius/Minor Axis:	2.750 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG-LS
CEC/C(UL) Specification:	CMG-LS
EU Directive 2011/65/EU (ROHS II):	Yes
IEEE Specification:	Std. 45 clause 23

## 8777SB Multi-Conductor - Audio, Control and Instrumentation Shipboard Cable

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):	08/01/2005
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
Other Specification:	UL444, ABS Type Approval Certificate 05-H500072B

### Flame Test

UL Flame Test:	UL1581 Vertical Tray, UL1685 FT4 Loading, Limited Smoke
CSA Flame Test:	FT4
IEC Flame Test:	60332-1, 60332-3-22 (Category A)
IEEE Flame Test:	1202

### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes
Sunlight Resistance:	Yes

### Plenum/Non-Plenum

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

### Nom. Characteristic Impedance:

#### Impedance (Ohm)

50

### Nom. Inductance:

#### Inductance (µH/ft)

0.18

### Nom. Capacitance Conductor to Conductor:

#### Capacitance (pF/ft)

30

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

#### Capacitance (pF/ft)

55

### Nominal Velocity of Propagation:

#### VP (%)

66

### Nom. Conductor DC Resistance:

#### DCR @ 20°C (Ohm/1000 ft)

15.0

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 10.600 Ohm/1000 ft

### Max. Operating Voltage - UL:

#### Voltage

300 V RMS (CMG)

### Max. Recommended Current:

#### Current

2 Amps per conductor @ 25°C

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8777SB 0101000	1,000 FT	46.000 LB	BLACK	C	3 FSPR #22 PP FRNHPO

### Notes:

C = CRATE REEL PUT-UP.

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