

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 |

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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): | 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 |
|---------------|----|

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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