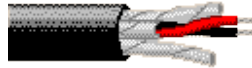


8777SB Multi-Conductor - Audio, Control and Instrumentation Shipboard Cable



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

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)	Dia. (in.)
PP - Polypropylene	.010	.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 Cabling

Overall Nominal Diameter: 0.273 in.

Pair

Pair Color Code Chart:

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

Pair Lay Length & Direction:

Lay Length (in.)	Twists/ft. (twist/ft)
1.750	6.860

Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +105°C

UL Temperature Rating: 105°C

Bulk Cable Weight: 42.900 lbs/1000 ft.

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

Max. Recommended Pulling Tension:	79 lbs.
Min. Bend Radius (Install)/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
IEEE Specification:	Std. 45 clause 23
Other Standards:	60092-376 clause 17, 60092-351, 60754-1, 60754-2, 61034
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-H50072B/1-PDA

Flame Test

UL Flame Test:	UL1685 FT4 Loading, Limited Smoke
C(UL) Flame Test:	FT4, Limited Smoke
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:

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

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.

Line Level Analog Audio Cable

Double-Pair Cables



Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	Inch	mm	* pF/ Ft.	* pF/ m	** pF/ Ft.	** pF/ m

22 AWG Stranded (7x30) TC Conductors • Twisted Pairs • Individual Beldfoil® Shield (100% Coverage) • Stranded TC Common Drain Wire

Polypropylene Insulation • Chrome PVC Jacket (Pairs Cabled on Common Axis to Reduce Diameter)

<p>Z-Fold®</p>	300V RMS 60°C	8723	NEC: 2 CM CEC: CM	Red/Black, Green/White	100 U-500 500 U-1000 1000 1640 U-2000 2000 3280 5000 10000	30.5 U-152.4 152.4 U-304.8 304.8 499.9 U-609.6 609.6 999.7 1524.0 3048.0	2.3 10.5 10.0 20.0 20.0 32.8 38.0 40.0 65.6 95.0 200.0	1.0 4.8 4.5 9.1 9.1 14.9 17.2 18.2 29.8 43.2 90.9	.008 —	.20 —	— —	.160 .406	35 4.06	115 62	62 203	203
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For Plenum versions of 8723, see 88723, 87723 or 82723.

Polypropylene Insulation • Black Low-Smoke, Zero-Halogen Jacket (Pairs Cabled on Common Axis to Reduce Diameter)

<p>Z-Fold®</p>	LSZH and ABS Type Approved 300V RMS 60°C	8723SB <small>new</small>	NEC: 2 CMG-LS CEC: CMG-LS FT4 Limited Smoke	Red & Black, Green & White	1000	304.8	26.0	11.8	—	—	—	.196	4.98	35	115	62	203
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Polypropylene Insulation • Black Low-Smoke, Zero-Halogen Jacket

<p>Z-Fold®</p>	LSZH and ABS Type Approved 300V RMS	8777SB <small>new</small>	NEC: 3 CMG-LS CEC: CMG-LS FT4 Limited Smoke	See Chart 3 (Tech Info Section)	1000†	304.8	39.0	17.7	.010	.25	—	.273	6.93	30	98	55	180
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Plenum • FEP Insulation • Red FEP Jacket (Pairs Cabled on Common Axis to Reduce Diameter)

<p>Z-Fold®</p>	300V RMS 200°C	88723	NEC: 2	Red/Black, Green/White	100†	30.5	3.4	1.5	.006	.15	—	.148	3.76	35	115	67	220
			CMP		500†	152.4	11.0	5.0									
			CEC: CMP FT6		1000†	304.8	19.0	8.6									

Plenum • FEP Insulation • Red Fluorocopolymer Jacket (Pairs Cabled on Common Axis to Reduce Diameter)

<p>Z-Fold®</p>	300V RMS 150°C	87723	NEC: 2	Red/Black, Green/White	500†	152.4	11.0	5.0	.006	.15	—	.148	3.76	35	115	67	220
			CMP		1000†	304.8	18.0	8.2									
			CEC: CMP FT6														

Plenum • FEP Insulation • Natural Flamarrest® Jacket (Pairs Cabled on Common Axis to Reduce Diameter)

<p>Z-Fold®</p>	300V RMS 75°C	82723	NEC: 2	Red/Black, Green/White	U-500†	U-152.4	10.5	4.8	.006	.15	—	.153	3.89	43	141	75	246
			CMP		U-1000†	U-304.8	20.0	9.1									
			CEC: CMP FT6		1000†	304.8	19.0	8.6									
					U-2000†	U-609.6	40.0	18.1									

FEP = Fluorinated Ethylene Propylene • TC = Tinned Copper

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.

† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.