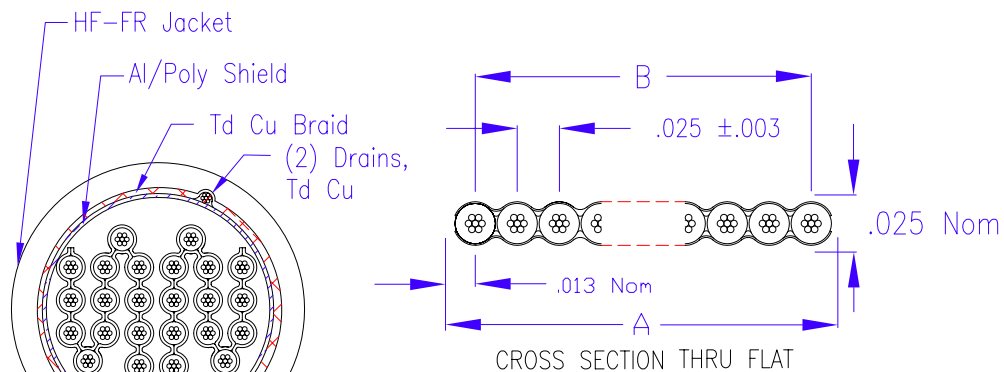
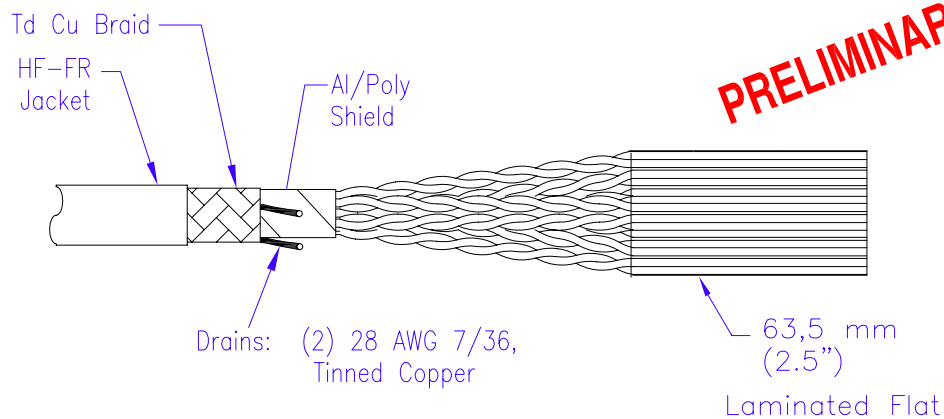




Cross Section at Flat



PHYSICAL

Conductors: 30 AWG 7/38 Tinned Copper
 Insulation: .006" HF-FR Polyolefin

Laminate: Polyester/Adhesive
 Color Code: 1st Pair Red/White followed by Blue/White and Repeat

Drain: (2) 28 AWG 7/36 Tinned Copper
 Shield: .001" Aluminum/Polyester
 Braid: Tinned Copper, 85% Min Coverage
 Jacket: .030" Green HF-FR Polyolefin
 Temperature: 80°C

ELECTRICAL

Impedance: 90 ohms
 Capacitance: TBD pF/ft
 Current Rating: .75 A @ 10°C Rise Above Ambient
 Insulation Res: 10^{10} ohms - 10 ft minimum
 Values Measured Differentially

APPROVALS:

UL Pending

Part Number	Count	Pairs	A-Span	B-Span	Ref Dia (Nom EST.)
168-3099-993	34	17	.851" Nom	0.825" Nom	@ loose Pairs 0.300"

Center - Center of Flats:
 304,8 ±12,70 mm (12.0 ±0.50") and Repeat.

DRAWN	PROD ENG	QA	MKT	P/ECN#	DRAWING NO. 168-3099-993	AMPHENOL SPECTRA-STRIP 720 SHERMAN AVE TEL (203) 281-3200 HAMDEN CT 06514 FAX (203) 281-5872	Rev 1
FITS 9/30/03	9/30/03				TITLE: Halogen-Free Loose Pair Round		SHEET 1 of 2
					Twist 'N' Flat® Cable		

PROPERTY	STANDARD	REQUIREMENTS	CABLE INSULATION AND LAMINATE
FLAME AND FIRE PROPAGATION: SMOKE DENSITY:	IEC 332-1 ASTM E 662 IEC 1034-1 AND -2	PASS $D_s < 250$ FLAMING AND NON-FLAMING MODES PASS	PASS FLAMING - 15/47, NONFLAMING - 0/25 PASS
TOXICITY OF FIRE GASSES:	ATS 1000.001	HF <100 HCl <150 HCN <150 $SO_2 + H_2S < 100$ CO <3500 $NO_2 + NO < 100$	HF <100 HCl <150 HCN <150 $SO_2 + H_2S < 100$ CO <3500 NO + NO <100
CORROSIVITY OF FIRE GASSES:	IEC 754-2	pH >4, CONDUCTIVITY <100uS/cm	pH - 4.5, CONDUCTIVITY - NO
UV RESISTANCE:	IEC 68-2-5	NO DISCOLORATION OR STICKINESS	NA
RADIATION RESISTANCE:	IEC 544-2-5	INDEX >5.7	PASS per CERN, Inner Cable
ACID GAS GENERATION:	MIL-C-24643		0 %
SMOKE INDEX:	NES-711		NA
TOXICITY INDEX:	NES-713		0.917
LIMITING OXYGEN INDEX:	ASTM D 2863		39

ASTM E662: STANDARD TEST METHOD FOR SPECIFIC OPTICAL DENSITY OF SMOKE

ATS 1000.001: AIRBUS INDUSTRY TECHNICAL SPECIFICATION, FIRE TEST SPECIFICATION

IEC 68-2-5: SIMULATED SOLAR RADIATION AT GROUND LEVEL

IEC 332-1: TESTS ON ELECTRIC CABLES UNDER FIRE CONDITIONS

IEC 544-2,-4: GUIDE FOR DETERMINING THE EFFECTS OF IONIZING RADIATION ON INSULATING MATERIALS

IEC 754-2: TEST ON GASES EVOLVED DURING COMBUSTION OF ELECTRIC CABLES

IEC 1034-1,-2:TEST FOR THE MEASUREMENT OF SMOKE DENSITY OF ELECTRIC CABLES BURNING UNDER DEFINED CONDITIONS

PRELIMINARY

DRAWN	PROD ENG	QA	MKT	P/ECN#		DRAWING NO.	168-3099-993	AMPHENOL SPECTRA-STRIP 720 SHERMAN AVE TEL (203) 281-3200 HAMDEN CT 06514 FAX (203) 281-5872	Rev 1
FTTS 9/30/03	9/30/03					TITLE: Halogen-Free Loose Pair Round			SHEET 2 of 2
						Twist 'N' Flat® Cable			