



PHYSICAL

Conductors: 28 AWG 7/36 Tinned Copper
 Insulation: .010" Non-Halogenated Flame Retardant Polyolefin (limiting Oxygen Index 39%)

ELECTRICAL

Impedance: 100 ohms
 Capacitance: 13 pf/ft @1MHz
 Inductance: .17 mH/ft
 Prop Delay: 1.45 ns/ft
 DC Res: 65 ohms/1000'
 Current Rating: 1.3 amps
 Voltage Rating: 300 Volts
 Insulation Res: 10¹⁰ ohms - 10' minimum
 Temperature Rating: -40° C TO 90° C

Above Values measured in the Ground-Signal-Ground Configuration

| Part Number | Count | A Span | B Span |
|--------------|-------|-----------|-------------|
| 193-2829-009 | 9 | .450 Nom | .400 ±.007 |
| 193-2829-010 | 10 | .500 Nom | .450 ±.007 |
| 193-2929-014 | 14 | .700 Nom | .650 ±.007 |
| 193-2829-015 | 15 | .750 Nom | .700 ±.007 |
| 193-2829-016 | 16 | .800 Nom | .750 ±.011 |
| 193-2829-020 | 20 | 1.000 Nom | .950 ±.011 |
| 193-2829-024 | 24 | 1.200 Nom | 1.150 ±.011 |
| 193-2829-025 | 25 | 1.250 Nom | 1.200 ±.011 |
| 193-2829-026 | 26 | 1.300 Nom | 1.250 ±.011 |
| 193-2829-034 | 34 | 1.700 Nom | 1.650 ±.011 |
| 193-2829-036 | 36 | 1.800 Nom | 1.750 ±.015 |
| 193-2829-037 | 37 | 1.850 Nom | 1.800 ±.015 |
| 193-2829-040 | 40 | 2.000 Nom | 1.950 ±.015 |
| 193-2829-050 | 50 | 2.500 Nom | 2.450 ±.015 |
| 193-2829-060 | 60 | 3.000 Nom | 2.950 ±.015 |
| 193-2829-064 | 64 | 3.200 Nom | 3.150 ±.015 |

All Dimensions in Inches, Unless Otherwise Noted.

| | | | | | | | |
|-----------------|----------|----|-----|--------|-------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------|
| DRAWN | PROD ENG | QA | MKT | P/ECN# | DRAWING NO. 193-2829-OXX | AMPHENOL SPECTRA-STRIP 720 SHERMAN AVE TEL (203) 281-3200 HAMDEN CT 06514 FAX (203) 281-5872 | Rev C |
| FITS 6/18/02 | | | | | TITLE: HF-FR ZIP PLANAR CABLE | | SHEET 1 of 2 |

| PROPERTY | STANDARD | REQUIREMENTS | RESULTS |
|-----------------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| FLAME AND FIRE PROPAGATION: SMOKE DENSITY: | IEC 332-1 ASTM E 662 IEC 1034-1 AND -2 | PASS DS < 250 FLAMING AND NON-FLAMING MODES PASS | PASS FLAMING - 0.62/0.75, NONFLAMING - 0.24/16.2 PASS |
| TOXICITY OF FIRE GASSES: | ATS 1000.001 | HF <100 HCl <150 HCN <150 SO ₂ + H ₂ S <100 CO <3500 NO + NO ₂ <100 | HF <100 HCl <150 HCN <150 SO ₂ + H ₂ S <100 CO <3500 NO + NO ₂ <100 |
| CORROSIVITY OF FIRE GASSES: | IEC 754-2 | pH >4, CONDUCTIVITY <100uS/cm | pH - 4.5, CONDUCTIVITY - NONE |
| UV RESISTANCE: | IEC 68-2-5 | NO DISCOLORATION OR STICKNESS | NA |
| RADIATION RESISTANCE: | IEC 544-2-5 | INDEX >5.7 | NA |
| ACID GAS GENERATION: | MIL-C-24643 | | 0.47 % |
| SMOKE INDEX: | NES-711 | | 5.3 |
| TOXICITY INDEX: | NES-713 | | 1.4 |
| 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

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|-----------------|----------|----|-----|--------|-------------------------------|-----------------------------------------------------------------------------------------------------------|-----------------|
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| FITS 6/18/02 | | | | | TITLE: HF-FR ZIP PLANAR CABLE | | SHEET 2 of 2 |