



PHYSICAL

Conductors: 28 AWG 7/36 Tinned Copper  
 Insulation: .010" Silicone-Polyimide Copolymer,  
 Color Code: Clear Amber Common, Brown, Red, Orange,  
 Yellow, Green, Blue, Violet, Gray,  
 White, Black and Repeat  
 Laminate: .005" White HF-FR Polyolefin  
 Temperature Rating: Insulation:  $-65^{\circ}\text{C}$  to  $150^{\circ}\text{C}$  /  
 Laminate:  $-25^{\circ}\text{C}$  to  $90^{\circ}\text{C}$

| PART NUMBER  | PAIRS | COND | A SPAN |         | B SPAN           |                     |
|--------------|-------|------|--------|---------|------------------|---------------------|
|              |       |      | Inches | (mm)    | Inches           | (mm)                |
| 132-2821-010 | 5     | 10   | 0.526  | (13,36) | $0.450 \pm .015$ | (11,43 $\pm 0,38$ ) |
| 132-2821-014 | 7     | 14   | 0.726  | (18,44) | $0.650 \pm .015$ | (16,51 $\pm 0,38$ ) |
| 132-2821-016 | 8     | 16   | 0.826  | (20,98) | $0.750 \pm .015$ | (19,05 $\pm 0,38$ ) |
| 132-2821-020 | 10    | 20   | 1.026  | (26,06) | $0.950 \pm .015$ | (24,13 $\pm 0,38$ ) |
| 132-2821-026 | 13    | 26   | 1.326  | (33,68) | $1.250 \pm .015$ | (31,75 $\pm 0,38$ ) |
| 132-2821-034 | 17    | 34   | 1.726  | (43,84) | $1.650 \pm .015$ | (41,91 $\pm 0,38$ ) |
| 132-2821-036 | 18    | 36   | 1.826  | (46,38) | $1.750 \pm .015$ | (44,45 $\pm 0,38$ ) |
| 132-2821-040 | 20    | 40   | 2.026  | (51,46) | $1.950 \pm .020$ | (49,53 $\pm 0,51$ ) |
| 132-2821-050 | 25    | 50   | 2.526  | (64,16) | $2.450 \pm .020$ | (62,23 $\pm 0,51$ ) |
| 132-2821-060 | 30    | 60   | 3.026  | (76,86) | $2.950 \pm .025$ | (74,93 $\pm 0,64$ ) |
| 132-2821-064 | 32    | 64   | 3.226  | (81,94) | $3.150 \pm .025$ | (80,01 $\pm 0,64$ ) |

ELECTRICAL

Impedance: 110 ohms  
 Capacitance: 12.5 pF/ft  
 Propagation Delay: 1.6 ns/ft Nom  
 Voltage Rating: 300 V  
 Current Rating: 1.3 A  
 Insulation Res:  $10^{10}$  ohms - 10 ft MIN

Above values measured Ground-Signal-Ground Configuration

ALL DIMENSIONS IN INCHES, UNLESS OTHERWISE NOTED.

|                  |          |    |     |        |  |   |                 |
|------------------|----------|----|-----|--------|--|---|-----------------|
| DRAWN            | PROD ENG | QA | MKT | P/ECN# | DRAWING NO. 132-2821-0XX               | <b>AMPHENOL SPECTRA-STRIP</b><br>720 SHERMAN AVE TEL (203) 281-3200<br>HAMDEN CT 06514 FAX (203) 281-5872 | Rev D           |
| FITTS<br>8/29/01 |          |    |     |        | TITLE: Halogen Free Twist'N'Flat Cable |   | SHEET<br>1 of 2 |

| PROPERTY               | STANDARD    | CABLE RESULTS                  |
|------------------------|-------------|--------------------------------|
| HALOGEN CONTENT:       | MIL-C-24643 | 0.1 %                          |
| ACID GAS GENERATION:   | MIL-C-24643 | 1.0 %                          |
| OPTICAL SMOKE INDEX:   | NES-711     | 5.3                            |
| TOXICITY INDEX:        | NES-713     | 1.4                            |
| LIMITING OXYGEN INDEX: | ASTM D 2863 | 39                             |
| UV RESITANCE:          | IEC68-2-5   | NA                             |
| RADIATION RESITANCE:   | IEC 544-2-5 | NA                             |
| LIMITING OXYGEN INDEX: | ASTM-D-2863 | Insulation: 46%, Laminate: 28% |

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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| FITTS<br>8/29/01 |          |    |     |        |  | TITLE: Halogen Free Twist'N'Flat® Cable |                               | 720 SHERMAN AVE TEL (203) 281-3200<br>HAMDEN CT 06514 FAX (203) 281-5872 |