



NUMBERS CLOCKED IN EACH LAYER, NUMBERS FACING OUT

**ELECTRICAL**

IMPEDANCE: 100 ± 5 Ω (DIFFERENTIAL TDR)  
 CAPACITANCE: 42 pF / M NOMINAL  
 PROP DELAY: 4.25 ns / M NOMINAL  
 SKEW (WITHIN PAIR): ≤ 100 ps / 10 M (TDT METHOD, DRAIN GROUNDED)  
 (DIFFERENTIAL 50%-50%, TEKTRONIX TDS-8000 OR 11801)  
 SKEW (PAIR/PAIR): ≤ 450 ps / 10 M (TDT METHOD, DRAINS GROUNDED)  
 (DIFFERENTIAL 50%-50%, TEKTRONIX TDS-8000 OR 11801)  
 ATTENUATION (MAXIMUM): 0.62 dB / M @ 625 MHz (0.56 dB TYPICAL)  
 0.88 dB / M @ 1250 MHz (0.82 dB TYPICAL)  
 1.80 dB / M @ 3750 MHz (1.55 dB TYPICAL)  
 SHIELD ISOLATION: OVERALL SHIELDS ISOLATED FROM PAIR SHIELDS  
 NEAR END CROSSTALK: BETTER THAN -55 dB @ 1.25 GHz, ONE AGGRESSOR (-65 dB TYPICAL)

**PHYSICAL**

(24) SHIELDED PARALLEL PAIRS  
 24 AWG SOLID SILVER PLATED COPPER  
 .056 NOM DIAMETER FOAM POLYOLEFIN, ONE NATURAL, OTHER RED TINT  
 PARALLEL PAIR WITH DRAIN: 27 AWG SOLID TINNED COPPER  
 .001 ALUMINIZED POLYESTER, FOIL IN, 20% MIN OVERLAP,  
 WHITE: NUMBERED 1 THRU 8 ON SIDE OPPOSITE DRAIN  
 YELLOW: NUMBERED 9 THRU 16 ON SIDE OPPOSITE DRAIN  
 BLUE: NUMBERED 17 THRU 24 ON SIDE OPPOSITE DRAIN  
 CLEAR POLYESTER, HEAT SEALED  
 CABLING: TWISTED TO ROUND, FILLER AND BINDER AS REQUIRED  
 BUFFER: POLYOLEFIN TAPE  
 OVERALL SHIELD {1}: .001 ALUMINIZED POLYESTER, FOIL OUT,  
 20% MIN OVERLAP (.530 REF DIAMETER)  
 OVERALL SHIELD {2}: 36 AWG TINNED COPPER BRAID, 85% MIN COVERAGE  
 JACKET: .040 NOM WALL PVC, BLACK  
 DIAMETER: .635 ± .020  
 PRINT LEGEND: AMPHENOL SPECTRA-STRIP SKEWCLEAR® 24 PAIR 24 AWG  
 (UL) 75° C CL2 CSA AWM I/II A 75° C 300V FT4  
 ROHS COMPLIANT 166-2499-992 REV B <DATE CODE>

CONFORMANCE: UL CL2 CSA FT4 75°C  
 RoHS COMPLIANT

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE NOTED

REVISION	CHANGES
A	RELEASE, RoHS
B	LEGEND

DRAWN BY GPV 01-28-02	PROD ENG	QA	MKT	P/ECN # 1149	DRAWING NO. 166-2499-992 TITLE: (24) SHIELDED PAIRS, 100 OHM, 24 AWG RoHS SKEWCLEAR®	AMPHENOL SPECTRA-STRIP 720 SHERMAN AVENUE HAMDEN CT 06514	TEL (203) 281-3200 FAX (203) 281-5872	Rev B Sheet 1 of 1
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