



PAIR NUMBERS CLOKED IN EACH LAYER, NUMBERS FACING OUT

ELECTRICAL (ALL PAIRS)

- IMPEDANCE: 100 Ω ± 5% (DIFFERENTIAL TDR)
- CAPACITANCE: 42 pF / M NOMINAL
- PROP DELAY: 4.25 ns / M NOMINAL
- SKEW (WITHIN PAIR): ≤ 40 ps / 4 M (TDT METHOD, DRAIN GROUNDED)  
(DIFFERENTIAL 50%-50%, TEKTRONIX TDS-8000 OR 11801)
- SKEW (PAIR/PAIR): ≤ 400 ps / 4 M (TDT METHOD, DRAINS GROUNDED)  
(DIFFERENTIAL 50%-50%, TEKTRONIX TDS-8000 OR 11801)
- DATA PAIR ATTENUATION (MAXIMUM): 1.38 dB / M @ 1250 MHz (1.26 dB TYPICAL)

CONFORMANCE: RoHS COMPLIANT  
 UL CL2 CSA FT4 75°C (166-0099-987 ONLY)  
 UL AWM STYLE 20276 VW1 80°C (166-0099-989 ONLY)

PHYSICAL

- (8) 28 AWG SHIELDED PARALLEL PAIRS (DATA)  
 28 AWG SOLID SILVER PLATED COPPER  
 .0355 NOM DIAMETER FOAM POLYOLEFIN, ONE NATURAL, OTHER RED TINT  
 PARALLEL PAIR WITH DRAIN: 30 AWG SOLID TINNED COPPER  
 .001 ALUMINIZED POLY, FOIL IN, YELLOW, PRINT 1 THRU 8 ON DRAIN SIDE  
 CLEAR POLYESTER, HEAT SEALED
  - (1) 28 AWG SHIELDED PARALLEL PAIR (CREFCLK)  
 28 AWG SOLID TINNED COPPER  
 .0355 NOM DIAMETER FOAM POLYOLEFIN, ONE NATURAL, OTHER RED TINT  
 PARALLEL PAIR WITH DRAIN: 30 AWG SOLID TINNED COPPER  
 .001 ALUMINIZED POLY, FOIL IN, BLUE, PRINT CLK ON DRAIN SIDE  
 CLEAR POLYESTER, HEAT SEALED
  - (5) 30 AWG SINGLES (410 Ω / km MAX DC RESISTANCE)  
 30 AWG SOLID TINNED COPPER  
 .0245 NOMINAL DIAMETER PVC, BK, BN, RD, YL, GN
- CABLING: TWISTED TO ROUND, FILLER & BINDER AS REQUIRED  
 BUFFER: POLYOLEFIN TAPE  
 OVERALL SHIELD {1}: .001 ALUMINIZED POLYESTER, FOIL OUT  
 OVERALL SHIELD {2}: 36 AWG TINNED COPPER BRAID, 85% MIN COVERAGE  
 JACKET: .035 NOM WALL PVC, BLACK (166-0099-989 IS SOFT JACKET)  
 DIAMETER: .330 ± .015  
 PRINT LEGEND: AMPHENOL SPECTRA-STRIP SKEWCLEAR® 9 PAIRS + 5 SINGLES  
 (-987 ONLY) (UL) 75° C CL2 CSA AWM I/II A 75° C 300V FT4 ROHS COMPLIANT  
 28 AWG 4X PCIE 166-0099-987 REV 8 <DATE CODE>  
 PRINT LEGEND: AMPHENOL SPECTRA-STRIP SKEWCLEAR® 9 PAIRS + 5 SINGLES  
 (-989 ONLY) 9J AWM STYLE 20276 VW-1 80°C ROHS COMPLIANT  
 28 AWG 4X PCIE 166-0099-989 REV 8 <DATE CODE>

MINIMUM BEND RADIUS: 1.35 INCH, 90 DEGREES

REVISION	CHANGES
5	PRINT LEGEND, SKEW
6	SINGLES POSITIONS
7	PRINT LEGEND
8	30 AWG DC RESISTANCE

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE NOTED

DRAWN BY GPV 01-20-05	PROD ENG	QA	MKT	P/ECN #	DRAWING NO. 166-0099-987 & -989	<b>AMPHENOL SPECTRA-STRIP</b> 720 SHERMAN AVENUE TEL (203) 281-3200 HAMDEN CT 06514 FAX (203) 281-5872	Rev 8
					TITLE: (9) 100 Ω PAIRS + (5) SINGLES		SHEET
					28 AWG SKEWCLEAR® 4X PCIe		1 of 1