(23) SHIELDED PAIRS
ALUM-POLY SHIELD [1]
BRAID SHIELD [2]
JACKET

FIGURES ON SHEET 2 SHOW THE CABLE'S CORE PRIOR TO BEING FORMED TO ROUND.

PRELIMINARY

ELECTRICAL

IMPEDANCE: 100 ± 10 Ω (DIFFERENTIAL TDR)
CAPACITANCE: 43 pF / ft NOMINAL
PROP DELAY: 4.3 ns / ft NOMINAL

SKIN (WITHIN PAIR) ≤ 100 ps / B ft (REF ≤ 3.8 ps / ft) (TDT METHOD, DRAINS GROUNDED)
(DIFFERENTIAL 50%-50%, TEXTRONIX 11801, SD-24/SD-28 SAMPLING HEADS)

SKIN (PAIR/PAIR) ≤ 350 ps / B ft (REF ≤ 13.3 ps / ft) (TDT METHOD, DRAINS GROUNDED)
(DIFFERENTIAL 50%-50%, TEXTRONIX 11801, SD-24/SD-28 SAMPLING HEADS)

CROSSTALK: BETTER THAN 60 dB, 1 GHz TO 1 GHz, BOTH NEAR AND FAR END

ATTENUATION (NOMINAL): 0.28 dB / ft @ 60 MHz
0.52 dB / ft @ 1 GHz
0.88 dB / ft @ 3 GHz

RATINGS: 80° C 300 V IEC 332-3 PENDING

PHYSICAL

(23) SHIELDED PARALLEL PAIRS
28 AWG SOLID SILVER PLATED COPPER
.035 NOM DIAMETER FOAM NON-HALOGEN POLYOLEFIN
DIE WHITE, OTHER BLUE TINT (.011 NOM WALL)
PARALLEL PAIR WITH DRAIN, 28 AWG SOLID SILVER PLATED COPPER
.001 ALUMINIZED POLYESTER, SPIRAL, FOIL IN, 30% MIN OVERLAP, HEAT SEALED
(NUMBERED PER FIGURE ON SHEET 2)

LAMINATE: .001 NOM POLYESTER, PER FIGURE ON SHEET 2
PAIR SPACING: PER FIGURE ON SHEET 2
CABLING: TWISTED TO ROUND
OVERALL SHIELD [1]: .0015 ALUMINIZED POLYESTER, SPIRAL, FOIL OUT,
FOIL FREE EDGE, 20% MIN FOIL OVERLAP
OVERALL SHIELD [2]: 36 AWG TINNED COPPER BRAID, 85% MIN COVERAGE
JACKET: .035 NOM WALL NON-HALOGEN POLYMER, BLACK
DIAMETER: .405 ± .015 (FLAT REGIONS ** .435 NOM DIAM)
PRINT LEGEND: SPECTRA-STRIP SKEWCLEAR® PLUS 25 PAIR 28 AWG
80° C 300 V NON-HALOGEN

** FLAT REGION IS ABOUT 3 INCHES LONG AND OCCURS ONLY AT PATCH LOCATIONS

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE NOTED

DRAWING NO. 164-2899-974
TITLE: (23) SHIELDED PAIRS, 100 OHM, 28 AWG
AMPHENOL SPECTRA-STRIP OPERATIONS
720 Sherman Ave Tel (203) 281-3200
Hamden CT. 06514 Fax (203) 281-5872

REV 2 SHEET 1 OF 2

DRAWN BY: PROD ENG: QA: WKT: P/EDN:
164-2899-974
1
2

NON-HALOGEN SKEWCLEAR® Plus
CROSS-SECTION THRU LAMINATED REGION:

PAIRS NUMBERED IN SEQUENCE, 1 THRU 23, THIS SIDE
ALUM / POLY SHIELD, ALL WHITE

POLYESTER LAMINATE, BOTH SIDES, CLEAR ON NUMBERED SIDE
BLUE TINT, ALL PAIRS
WHITE, ALL PAIRS

0.115
22 PLS

2.530 NOM

1.75 NOM LAMINATE, BOTH SIDES (1.58 NOM BONDED)

NOT LAMINATED

DISTANCE BETWEEN FLATS
0.5 M ± 0.25 M

ALL DIMENSIONS ARE INCHES UNLESS OTHERWISE NOTED

PRELIMINARY