

I. DESCRIPTION: PLENUM

4 PAIR UTP (UNSHIELDED TWISTED PAIR) CABLE, 23 AWG
SOLID BARE COPPER, FEP INSULATED SINGLES @ ESPLINE FLR,
RIPCORDER, FLEXIBLE FLAMARREST(R) JACKET. JACKET IS
SEQUENTIALLY MARKED AT TWO FOOT INTERVALS.

II. APPLICATIONS:

SUPPORTS CURRENT APPLICATIONS DESIGNED FOR CATEGORY SIX
CABLES SUCH AS 100 BASE TX, 100 BASE VG ANYLAN, AND
155 ATM. IDEAL FOR USE IN EXISTING OR FUTURE HIGH BAND-
WIDTH APPLICATIONS SUCH AS 622ATM AND GIGABIT ETHERNET.

III. PHYSICAL CHARACTERISTICS:

TEMPERATURE RANGE: -20 TO 75 C
INSULATION MATERIAL: FEP
JACKET / FILLER MATERIAL: FLAMARREST / FEP
MAX. PULLING TENSION: 45 LBS.
MIN. CONDUCTOR OD: 0.0234"
MIN. INSULATION OD: 0.0402"
NOM. WEIGHT/1000 FT: 33.8 LBS.
MIN. BEND RADIUS: 0.250"
NOM. DIAMETER: 0.255" (0.215" X 0.290")
APPLICABLE SPECIFICATIONS: ANSI/TIA/EIA-568-B.2 CAT 6
FLAME RATING AND TEST: UL TYPE CMP, UL910
STEINER TUNNEL LISTED.
C(UL)TYPE CMP, CSA FT6

IV. COLOR CODE AND CW ROTATION:

PAIR #1: WHITE/GREEN & GREEN (MINOR AXIS)
PAIR #2: WHITE/ORANGE & ORANGE (MAJOR AXIS)
PAIR #3: WHITE/BLUE & BLUE (MINOR AXIS)
PAIR #4: WHITE/BROWN & BROWN (MAJOR AXIS)

V. ELECTRICAL CHARACTERISTICS:

MAX. OPERATING VOLTAGE: 300 V RMS
NOM. CAPACITANCE @ 1 KHZ: 15.5 PF/FT.
NOM. VELOCITY OF PROPAGATION: 67%

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;DELAY ; DELAY ;CAPACITANCE;DCR ;DCR
;SKEW ; @ 100 MHZ ;UNBALANCE ;@ 20C ;UNBALANCE
;(NS/100 ; (NS/100 ;(PF/100 M) ;(OHMS/ ;(%)

; M) ; M) ; ; 100 M);
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 MAXIMUM; 38 ; 538 ; 65.6 ; 25.0 ; 3.0

FREQ. (MHZ)	IMPEDANCE SPEC	MIN	MAX	MIN PSNEXT (DB)	MIN. PSACR (DB/100M)
		RL (DB)	ATTEN (DB/100M)		
1.0	100+/-12%	20.0	1.9	80.3	78.5
4.0	100+/-12%	23.0	3.6	71.3	67.7
8.0	100+/-12%	24.5	5.1	66.8	61.7
10.0	100+/-12%	25.0	5.7	65.3	59.6
16.0	100+/-12%	25.0	7.2	62.3	55.0
20.0	100+/-12%	25.0	8.1	60.8	52.7
25.0	100+/-15%	25.0	9.1	59.3	50.3
31.25	100+/-15%	25.0	10.2	57.9	47.7
62.5	100+/-15%	25.0	14.7	53.4	38.7
100	100+/-15%	25.0	18.9	50.3	31.4
155	100+/-15%	22.8	23.9	47.5	23.5
200	100+/-15%	21.6	27.5	45.8	18.3
250	100+/-20%	20.5	31.2	44.3	13.2
350	100+/-22%	19.8	37.7	40.2	4.5
400	100+/-22%	19.5	40.6	39.3	0.6
500	100+/-22%	18.4	46.2	37.8	>0 TO 460
550	100+/-22%	18.0	48.8	37.2	
600	100+/-22%	17.6	51.4	36.6	

FREQ. (MHZ)	MIN NEXT (DB)	MIN ACR (DB)	MIN ELFEXT (DB/100M)	MIN. PSELFEXT (DB/100M)
1.0	82.3	80.5	73.8	70.8
4.0	73.3	69.7	61.8	58.8
8.0	68.8	63.7	55.7	52.7
10.0	67.3	61.6	53.8	50.8
16.0	64.3	57.0	49.7	46.7
20.0	62.8	54.7	47.8	44.8
25.0	61.4	52.3	45.8	42.8
31.25	59.9	49.7	43.9	40.9
62.5	55.4	40.7	37.9	34.9
100	52.3	33.4	33.8	30.8
155	49.5	25.5	30.0	27.0
200	47.8	20.3	27.8	24.8
250	46.4	15.3	25.8	22.8
350	42.2	6.5	22.9	19.9
400	41.3	2.6	21.8	18.8
500	39.9	>0 TO 460	19.8	16.8
550	39.2		19.0	16.0

600 38.6 18.2 15.2

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DATA IN THE ABOVE TABLES REPRESENTS DISCRETE FREQUENCY
POINTS. ALL TEST ARE SWEEP TESTED OUT TO 600 MHZ.

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THE BELDEN DIVISION OFFICE AND ENGINEERING CENTER ARE ISO
9001 CERTIFIED FACILITIES. BELDEN'S U.S. DOMESTIC
MANUFACTURING PLANTS ARE ISO 9002 CERTIFIED.

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APPLICABLE PATENTS: 5606151, 5734126, 5789711 AND
6297454B1.