

I. DESCRIPTION: NON-PLENUM

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

II. APPLICATIONS:

SUPPORTS CURRENT SUCH AS 100 BASE TX, 100 BASE VG
ANYLAN, AND 155 ATM. IDEAL FOR USE IN EXISTING OR
FUTURE HIGH BANDWIDTH APPLICATIONS SUCH AS 622 ATM
AND GIGABIT ETHERNET.

III. PHYSICAL CHARACTERISTICS:

TEMPERATURE RANGE: -20 TO 75 C
INSULATION MATERIAL: POLYOLEFIN
JACKET / FILLER MATERIAL: PVC / FR POLYOLEFIN
MAX. PULLING TENSION: 45 LBS.
MIN. CONDUCTOR OD: 0.0234"
MIN. INSULATION OD: 0.0415"
NOM. WEIGHT/1000 FT: 31.3 LBS.
MIN. BEND RADIUS: 0.250"
NOM. DIAMETER: 0.265" (0.225" X 0.310")
APPLICABLE SPECIFICATIONS: ANSI/TIA/EIA-568-B.2 CAT 6
FLAME RATING AND TEST: UL TYPE CMR, UL1666
RISER LISTED.
C(UL)TYPE CMR, CSA FT4

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/ ;(%)

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