



Technical
Data Sheet

10-30-09 REV. 0

YC48122

ALUMINUM ARMORED MEDIATWIST(TM)

I. DESCRIPTION:

 2 x BELDEN 1872A, 23 AWG SOLID BARE COPPER
 POLYOLEFIN INSULATED ADJOINED SINGLES,
 RIPCORD, INNER PVC JACKET, INTERLOCKED ALUMINUM
 ARMOR, OUTER PVC JACKET.

III. ELECTRICAL CHARACTERISTICS:

 MAX. OPERATING VOLTAGE: 300 V RMS
 NOM. CAPACITANCE @ 1 KHZ: 15 PF/FT
 NOM. VELOCITY OF PROPAGATION: 70%
 MAX DELAY SKEW: 25 NS/100M
 MAXIMUM CAPACITANCE UNBALANCE: 49.2 PF/100M
 MAX. CONDR D.C.R. @ 20C: 9 OHMS/100M
 MAX. D.C.R. UNBALANCE: 3.0%

Premise Cable Electrical Table 1:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)
1	1.9	74.3	72.3	70	70	20.0
4	3.7	65.3	63.3	59	59	23.0
8	5.3	60.3	58.8	53	53	24.5
10	5.9	59.3	57.3	51	51	25.0
16	7.5	56.3	54.3	46	46	25.0
20	8.4	54.8	52.8	44	44	25.0
25	9.5	53.4	51.4	42	42	24.3
31.25	10.6	51.9	49.9	39	39	23.6
62.5	15.4	47.4	45.4	30	30	21.5
100	19.8	44.3	42.3	25	25	21.0
155	25.1	41.5	39.5	14	14	21.0
200	29.0	39.8	37.8	10	10	21.0
250	32.8	38.3	36.3	3	3	18.0
300	35.2	37.2	34.2	0	0	18.0
310	37.1	36.9	34.9			18.0
350	39.8	36.2	34.2			17.0
400**	43.0	35.3	33.3			14.0
500**	49.0	33.8	31.8			14.0

Premise Cable Electrical Table 2:

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 12	100 ± 15	67.8	64.8
4	100 ± 12	100 ± 15	55.7	52.8
8	100 ± 12	100 ± 15	49.7	46.7
10	100 ± 12	100 ± 15	47.8	44.8
16	100 ± 12	100 ± 8	43.7	40.7
20	100 ± 12	100 ± 8	41.7	38.7
25	100 ± 15	100 ± 8	39.8	36.8
31.25	100 ± 15	100 ± 8	37.9	34.9

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62.5	100 ± 15	100 ± 8	31.8	28.9
100	100 ± 15	100 ± 8	27.8	24.8
155	100 ± 15	100 ± 8	23.9	20.9
200	100 ± 15	100 ± 8	21.7	18.8
250	100 ± 20	100 ± 8	19.8	16.8
300	100 ± 20	100 ± 8	18.2	15.2
310	100 ± 20	100 ± 8	17.9	14.9
350	100 ± 22	100 ± 8	16.9	13.9
400**	100 ± 32	100 ± 8	15.7	12.7
500**	100 ± 32	100 ± 8	13.8	10.8

IV. PHYSICAL CHARACTERISTICS:

 TEMPERATURE RANGE: -20 TO 80 DEG. C
 INSULATION MATERIAL: POLYOLEFIN
 INNER JACKET MATERIAL: PVC
 ARMORING: INTERLOCKED ALUMINUM
 OUTER JACKET MATERIAL (COLOR): PVC (STRONG BLUE)
 MAX. PULLING TENSION: 200 LBS. ESTIMATED
 MIN. BEND RADIUS: 8" ESTIMATED
 NOM. INNER (CORE) DIMENSION: .365" X .165"
 NOM. OUTER DIMENSION: .783" ESTIMATED
 APPLICABLE SPECS.: UL TYPE CM
 CEC C(UL) TYPE CMG
 568-B.2-1 CATEGORY 6

V. COLOR CODE:

 PAIR #1: WHITE/BLUE & BLUE
 PAIR #2: WHITE/ORANGE & ORANGE
 PAIR #3: WHITE/GREEN & GREEN
 PAIR #4: WHITE/BROWN & BROWN

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NOTE: VALUES ABOVE 350 MHZ ARE FOR INFORMATION ONLY