

1875GA Multi-Conductor - MediaTwist® Enhanced Category 6



**Obsolete
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1-800-BELDEN1**

For more Information
please call

1-800-Belden1

Description:

4 Pair UTP, 350MHz Enhanced Category 6, Riser Rated, 24 AWG Stranded Tinned Copper, Polyolefin Insulation, Bonded Pairs, Flexible PVC Jacket, T568-A Color Rotation

Usage (Overall)

Suitable Applications:

Premise Patch Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422, Noisy Environments

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
4	24	7x32	TC - Tinned Copper

Insulation

Insulation Material:

Insulation Material
PO - Polyolefin

Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
PVC - Polyvinyl Chloride

Overall Cabling

Overall Nominal Diameter: 0.365 x 0.165 in.

Pair

Pair Color Code Chart:

Number	Color
For T568-A Wiring	White/Brown Stripe & Brown
	White/Blue Stripe & Blue
	White/Orange Stripe & Orange
	White/Green Stripe & Green

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

Bulk Cable Weight: 29 lbs/1000 ft.

Max. Recommended Pulling Tension: 40 lbs.

Min. Bend Radius (Install)/Minor Axis: 0.100 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR, UL444

CEC/C(UL) Specification: CMR

Other Standards: 11801 Category 5 Patch

Telecommunications Standards: 568-B.2-1 Category 6 Patch, B.2 Category 5e Horizontal

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Other Specification: UL verified to Category 6

Flame Test

UL Flame Test: UL1666 Riser

CSA Flame Test: FT4

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

Capacitance (pF/ft)

15.0

Nominal Velocity of Propagation:

VP (%)

70

Maximum Capacitance Unbalance (pF/100 m): 49.2

Maximum Delay:

Delay (ns/100 m)

510 @ 100MHz

Max. Delay Skew:

Delay Skew (ns/100 m)

25

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)

9

Max. Operating Voltage - UL:

Voltage

300 V RMS

Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)

3

Electrical Characteristics-Premise (Overall)

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	2.0	74.3	72.3	70.3	70.3	20.0
4	4.1	65.3	63.3	59.2	59.2	23.0
8	5.8	60.3	58.8	53.0	53.0	24.5
10	6.5	59.3	57.3	50.8	50.8	25.0
16	8.2	56.3	54.3	46.0	46.0	25.0
20	9.3	54.8	52.8	43.5	43.5	25.0
25	10.4	53.4	51.4	41.0	41.0	24.3
31.25	11.7	51.9	49.9	38.2	38.2	23.6
62.5	17.0	47.4	45.4	28.4	28.4	21.5
100	22.0	44.3	42.3	25	25	21.0
155	30.2	41.5	39.5	14	14	21.0
200	34.8	39.8	37.8	10	10	21.0
250	39.6	38.3	36.3	3	3	18.0
300	46.7	37.2	34.2	0	0	18.0
310	47.6	36.9	34.9			18.0
350	51.1	36.2	34.2			17.0
400	55.3	35.3	33.3			14.0
500	63.3	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)

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1	100 ± 12	100 ± 15	67.8	64.8
4	100 ± 12	100 ± 15	55.7	52.7
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
62.5	100 ± 15	100 ± 8	31.8	28.8
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	18.7
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

Notes (Overall)

Notes: US Patent #'s 5, 606, 151; 5, 734, 126; 5, 763, 823; 5, 821, 467 **Values above 350 MHz are information only

Notes (Cont'd.): RJ-45 Compatible

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
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