

勝 特 力 材 料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Part Number: 1700A Paired - DataTwist® Enhanced Category 5e



DESCRIPTION:

Premise Horizontal Cable, 4 Pair UTP, 350MHz Enhanced Category 5e, Vertical Tray Rated, #24 Solid Bare Copper, Poly Bonded Pairs, PVC Jacket, Rip Cord, Sequential Marking at Two Foot Intervals

PHYSICAL CHARACTERISTICS :

CONDUCTOR :

Number of Pairs: 4
Total Number of Conductors: 8
AWG: 24
Stranding: Solid
Conductor Diameter: .020 in.
Conductor Material: BC - Bare Copper

INSULATION :

Insulation Material: PO - Polyolefin
Nom. Insulation Wall Thickness: .009 in.
Insulation Diameter: .035 in.

PAIR :

Pair Color Code Chart:

Number	Color	Number	Color
1	White/Blue & Blue	4	White/Brown & Brown
2	White/Orange & Orange		
3	White/Green & Green		

OUTER SHIELD :

Outer Shield Material: Unshielded

OUTER JACKET :

Outer Jacket Material: PVC - Polyvinyl Chloride
Outer Jacket Ripcord: Y

OVERALL NOMINAL DIAMETER :

Overall Nominal Diameter: 0.200 in.

MECHANICAL CHARACTERISTICS :

Operating Temperature Range: -20 ° C To +80 ° C
Bulk Cable Weight: 29 lbs/1000 ft.
Max. Recommended Pulling Tension: 40 lbs.
Min. Bend Radius (Install): 0.25 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE :

APPLICABLE STANDARDS :

NEC/(UL) Specification:
IEC Specification:
TIA/EIA Specification:
Other Specification:

UL Subject 444
IS11801 Category 5
ANSI/TIA/EIA 568B.2 Category 5e
NEMA WC-63.1 Category 5e

FLAME TEST :

UL Flame Test:
C(UL) Flame Test:
CSA Flame Test:

CM, UL 1581 Vertical Tray
CM
FT1

PLENUM/NON-PLENUM :

Plenum (Y/N):
Plenum Number:

N
1701A

ELECTRICAL CHARACTERISTICS :

Nom. Capacitance Conductor to Shield @ 1 KHz:
Maximum Capacitance Unbalance (pF/100 m):
Nominal Velocity of Propagation:
Maximum Delay (ns/100 m):
Maximum Delay Skew (ns/100m):
Maximum Conductor DC Resistance @ 20 Deg. C:
Maximum DCR Unbalance @ 20 Deg. C:
Max. Operating Voltage - UL:

15 pF/ft
66 pF/100 m
70 %
510 ns/100 m
25 ns/100 m
9 Ω /100 m
3 %
300 V RMS

ELECTRICAL CHARACTERISTICS - PREMISE :

Premise Cable Electricals Table 1:

Frequency (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min. Return Loss (dB)	Min. Structural Return Loss (dB)
1	2.0	65.3	65.3	63.3	63.3	20.0	
4	4.0	56.3	56.3	52.3	52.3	23.0	
8	5.7	51.8	51.8	46.1	46.1	24.5	
10	6.4	50.3	50.3	43.9	43.9	25.0	
16	8.1	47.3	47.3	39.1	39.1	25.0	
20	9.2	45.8	45.8	35.2	35.2	25.0	
25	10.3	44.3	44.3	34.1	34.1	24.3	
31.25	11.6	42.9	42.9	31.3	31.3	23.6	
62.5	16.8	38.4	38.4	21.6	21.6	21.5	
100	21.7	35.3	35.3	17.1	17.1	20.1	
155	27.7	32.5	32.5	4.7	4.7	19.0	
200	32.0	30.8	30.8	3.0	3.0	19.0	
250	36.4	29.3	29.3	>0	>0	18.0	
300	40.5	28.2	28.2	>0	>0	18.0	
310	41.3	27.9	27.9			18.0	
350	44.3	27.2	27.2			17.0	

Premise Cable Electricals Table 2:

Frequency (MHz)	Input (Unfitted) Impedance (Ω)	Fitted Impedance (Ω)	Min. ELFEXT (dB)	Min. PS ELFEXT (dB)
1	100 $\pm$ 12	105 $\pm$ 10	63.8	60.8
4	100 $\pm$ 12	100 $\pm$ 10	51.7	48.7
8	100 $\pm$ 12	100 $\pm$ 10	45.7	42.7
10	100 $\pm$ 12	100 $\pm$ 10	43.8	40.8
16	100 $\pm$ 12	100 $\pm$ 10	39.7	36.7
20	100 $\pm$ 12	100 $\pm$ 10	37.7	34.7
25	100 $\pm$ 15	100 $\pm$ 10	35.8	32.8
31.25	100 $\pm$ 15	100 $\pm$ 10	33.9	30.9
62.5	100 $\pm$ 15	100 $\pm$ 10	27.8	24.8

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100	100±15	100±10	23.8	20.8
155	100±18	100±10	19.9	16.9
200	100±20	100±10	17.7	14.7
250	100±20	100±10	15.8	12.8
300	100±20	100±10	14.2	11.2
310	100±20	100±10	13.9	10.9
350	100±22	100±10	12.9	9.9

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NOTES :

Notes:

Applications: Gigabit Ethernet, 100BaseTX, 100BaseVG AN
622ATM, NTSC/PAL Component or Composite Video, AES/
422, Noisy Environments | US Patent #'s 5, 606, 151; 5, 734

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1700A 0021000	4 PR #24 DATATWIST FR PVC	1000	22	RED	C
1700A 0023000	4 PR #24 DATATWIST FR PVC	3000	63	RED	C
1700A 002U1000	4 PR #24 DATATWIST FR PVC	U1000	22	RED	
1700A 0031000	4 PR #24 DATATWIST FR PVC	1000	22	ORANGE	C
1700A 003U1000	4 PR #24 DATATWIST FR PVC	U1000	22	ORANGE	
1700A 0041000	4 PR #24 DATATWIST FR PVC	1000	22	YELLOW	C
1700A 004U1000	4 PR #24 DATATWIST FR PVC	U1000	22	YELLOW	
1700A 0051000	4 PR #24 DATATWIST FR PVC	1000	22	GREEN, DARK	C
1700A 005U1000	4 PR #24 DATATWIST FR PVC	U1000	22	GREEN, DARK	
1700A 0061000	4 PR #24 DATATWIST FR PVC	1000	22	BLUE, LIGHT	C
1700A 0061640	4 PR #24 DATATWIST FR PVC	1640	36.08	BLUE, LIGHT	C
1700A 0063000	4 PR #24 DATATWIST FR PVC	3000	63	BLUE, LIGHT	C
1700A 0063280	4 PR #24 DATATWIST FR PVC	3280	72.16	BLUE, LIGHT	C
1700A 006U1000	4 PR #24 DATATWIST FR PVC	U1000	22	BLUE, LIGHT	
1700A 008U1000	4 PR #24 DATATWIST FR PVC	U1000	22	GRAY	
1700A 0091000	4 PR #24 DATATWIST FR PVC	1000	22	WHITE	C
1700A 0093000	4 PR #24 DATATWIST FR PVC	3000	63	WHITE	C

1700A 009U1000	4 PR #24 DATATWIST FR PVC	U1000	22	WHITE	C
1700A 0101000	4 PR #24 DATATWIST FR PVC	1000	22	BLACK	C
1700A 010U1000	4 PR #24 DATATWIST FR PVC	U1000	22	BLACK	
1700A B021000	4 PR #24 DATATWIST FR PVC	1000	22	PURPLE	C
1700A B023000	4 PR #24 DATATWIST FR PVC	3000	63	PURPLE	
1700A B02U1000	4 PR #24 DATATWIST FR PVC	U1000	22	PURPLE	
1700A F2V1000	4 PR #24 DATATWIST FR PVC	1000	22	GRAY, DEC	C
1700A F2V1640	4 PR #24 DATATWIST FR PVC	1640	36.08	GRAY, DEC	C
1700A F2V3000	4 PR #24 DATATWIST FR PVC	3000	63	GRAY, DEC	C
1700A F2V3280	4 PR #24 DATATWIST FR PVC	3280	72.16	GRAY, DEC	C
1700A F2VU1000	4 PR #24 DATATWIST FR PVC	U1000	22	GRAY, DEC	

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 10-11-2002

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