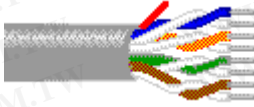


勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-54151736  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

**Part Number: 1583A Paired - DataTwist® Category 5e**



**DESCRIPTION:**

Premise Horizontal Cable, 4 Pair UTP, 200MHz Category 5e, Vertical Tray Rated, #24 Solid Bare Copper, Polyolefin Insul Cord, Sequential Marking at Two Foot Intervals

**PHYSICAL CHARACTERISTICS :**

**CONDUCTOR :**

Number of Pairs: **4**  
 Total Number of Conductors: **8**  
 AWG: **24**  
 Stranding: **Solid**  
 Conductor Material: **BC - Bare Copper**

**INSULATION :**

Insulation Material: **PO - Polyolefin**

**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: **.214 in.**

**MECHANICAL CHARACTERISTICS :**

Operating Temperature Range: **-20 ° C To +75 ° C**  
 Bulk Cable Weight: **29 lbs/1000 ft.**  
 Max. Recommended Pulling Tension: **35 lbs.**  
 Min. Bend Radius (Install): **0.5 in.**

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE :**

**APPLICABLE STANDARDS :**

NEC/(UL) Specification: **UL Subject 444**

IEC Specification:  
TIA/EIA Specification:  
Other Specification:

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

**FLAME TEST :**

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

CM, UL1581 Vertical Tray  
CM  
FT1

**PLENUM/NON-PLENUM :**

Plenum (Y/N):  
Plenum Number:

N  
1585A

**ELECTRICAL CHARACTERISTICS :**

Nom. Mutual Capacitance @ 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  
330 pF/100 m  
70 %  
510 @ 100MHz ns/100 m  
45 ns/100 m  
9.38 Ω/100 m  
3 %  
300 V RMS

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**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	62.3	63.0	60.0	20.0	23
4	4.1	56.3	53.3	51.0	49.0	23.0	23.0
8	5.8	51.8	48.8	46.0	43.0	24.5	24.5
10	6.5	50.3	47.3	43.0	41.0	25.0	25.0
16	8.2	47.3	44.3	39.0	36.0	25.0	25.0
20	9.3	45.8	42.8	36.5	33.5	25.0	25.0
25	10.4	44.3	41.3	33.9	30.9	24.3	24.3
31.25	11.7	42.9	39.9	31.0	28.0	23.6	23.6
62.5	17.0	38.4	35.4	22.0	19.0	21.5	21.5
100	22.0	35.3	32.3	14.0	11.0	20.1	20.1
155	28.1	32.5	29.5	4.4	1.4	15.8	
200	32.0	30.8	27.8	4.0	1.0	15.0	

Premise Cable Electricals Table 2:

Frequency (MHz)	Input (Unfitted) Impedance (Ω)	Fitted Impedance (Ω)	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	100 ± 15	63.8	60.8
4	100 ± 15	100 ± 15	51.7	48.7
8	100 ± 15	100 ± 15	45.7	42.7
10	100 ± 15	100 ± 15	43.8	40.8
16	100 ± 15	100 ± 15	39.7	36.7
20	100 ± 15	100 ± 15	37.7	34.7
25	100 ± 15	100 ± 15	35.8	32.8
31.25	100 ± 15	100 ± 15	33.9	30.9
62.5	100 ± 15	100 ± 15	27.8	24.8
100	100 ± 15	100 ± 15	23.8	20.8
155	100 ± 25	100 ± 15	19.9	16.9
200	100 ± 25	100 ± 15	17.7	14.7

**NOTES :**

Notes:

Applications: Gigabit Ethernet, 100BaseTX, 100BaseVG AN 622ATM, NTSC/PAL Component or Composite Video, AES/422

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**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1583A 0021000	4 PR #24 PP FR PVC	1000	21	RED	C
1583A 002U1000	4 PR #24 PP FR PVC	U1000	21	RED	
1583A 0031000	4 PR #24 PP FR PVC	1000	21	ORANGE	C
1583A 003U1000	4 PR #24 PP FR PVC	U1000	21	ORANGE	
1583A 0041000	4 PR #24 PP FR PVC	1000	21	YELLOW	C
1583A 004U1000	4 PR #24 PP FR PVC	U1000	21	YELLOW	
1583A 0051000	4 PR #24 PP FR PVC	1000	21	GREEN, DARK	C
1583A 005U1000	4 PR #24 PP FR PVC	U1000	21	GREEN, DARK	
1583A 0061000	4 PR #24 PP FR PVC	1000	21	BLUE, LIGHT	C
1583A 0061640	4 PR #24 PP FR PVC	1640	34.44	BLUE, LIGHT	
1583A 0063000	4 PR #24 PP FR PVC	3000	63	BLUE, LIGHT	C
1583A 006U1000	4 PR #24 PP FR PVC	U1000	21	BLUE, LIGHT	
1583A 0091000	4 PR #24 PP FR PVC	1000	21	WHITE	C
1583A 0093000	4 PR #24 PP FR PVC	3000	63	WHITE	C
1583A 009U1000	4 PR #24 PP FR PVC	U1000	21	WHITE	
1583A 0101000	4 PR #24 PP FR PVC	1000	21	BLACK	C
1583A 010U1000	4 PR #24 PP FR PVC	U1000	21	BLACK	
1583A 0121000	4 PR #24 PP FR PVC	1000	21	PINK	C
1583A 012U1000	4 PR #24 PP FR PVC	U1000	21	PINK	
1583A F6H1000	4 PR #24 PP FR PVC	1000	21	GRAY, DARK PEARL	C
1583A F6H1640	4 PR #24 PP FR PVC	1640	34.44	GRAY, DARK PEARL	
1583A F6H3000	4 PR #24 PP FR PVC	3000	63	GRAY, DARK PEARL	C
1583A F6HU1000	4 PR #24 PP FR PVC	U1000	21	GRAY, DARK PEARL	
1583A 002D5	4 PR #24 BC PO PVC	D5	0.1	RED	
1583A 003D5	4 PR #24 BC PO PVC	D5	0.1	ORANGE	
1583A 004D5	4 PR #24 BC PO PVC	D5	0.1	YELLOW	
1583A 004DA	4 PR #24 BC PO PVC	DA		YELLOW	
1583A 005D5	4 PR #24 BC PO PVC	D5	0.1	GREEN, DARK	
1583A 005DA	4 PR #24 BC PO PVC	DA		GREEN, DARK	
1583A	4 PR #24 PP FR			BLUE,	

006A5	PVC	A5	0.11	LIGHT	
1583A 006D5	4 PR #24 PP FRPVC	D5	0.1	BLUE, LIGHT	
1583A 006DA	4 PR #24 PP FRPVC	DA		BLUE, LIGHT	
1583A 010D5	4 PR #24 BC PO PVC	D5	0.1	BLACK	
1583A F6HA5	4 PR #24 PP FR PVC	A5	0.11	GRAY, DARK PEARL	
1583A F6HD5	4 PR #24 PP FR PVC	D5	0.1	GRAY, DARK PEARL	
1583A F6HDA	4 PR #24 PP FRPVC	DA		GRAY, DARK PEARL	
1583A F6HU1001	SINGAPORE DISTRIBUTION ONLY	U1001	21.021	GRAY, DARK PEARL	

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 08-19-2003

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