

**Detailed Specifications &
Technical Data**



1592A Paired - DataTwist® Category 5e

	<p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p> <p>Color Code Chart : No. 8 for DataTwist Cables (Modified Western Electric).pdf</p>
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Description:

4 Pair UTP(Unshielded twisted pairs), 200MHz Category 5e, Vertical Tray Rated, 24 AWG stranded bare copper conductors, Polyolefin insulation, PVC jacket. Jacket sequential marked at two foot intervals. RJ-45 Compatible.

SUITABLE APPLICATIONS:

Suitable Applications	Premise Patch Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU, Digital Video, RS-422
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PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	4
Total Number of Conductors	8
AWG	24
Stranding	7x32
Conductor Material	BC - Bare Copper

INSULATION:

Insulation Material	PO - Polyolefin
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Pair Color Code Chart :

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

OUTER SHIELD:

Outer Shield Material	Unshielded
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OUTER JACKET:

Outer Jacket Material	PVC - Polyvinyl Chloride
Outer Jacket Ripcord	No

OVERALL NOMINAL DIAMETER:

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Overall Nominal Diameter	.213 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +75°C
Bulk Cable Weight	21 lbs/1000 ft.
Max. Recommended Pulling Tension	25 lbs.
Min. Bend Radius (Install)	0.8 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CM, UL444
CEC/C(UL) Specification	CM
IEC Specification	11801 Category 5 Patch
TIA/EIA Specification	568-B.2 Category 5e Patch
Other Specification	NEMA WC-63.1 Category 5e Patch, ICEA 661 Category 5 Patch, UL verified to Category 5e

FLAME TEST:

UL Flame Test	UL1581 Vertical Tray
CSA Flame Test	FT1

PLENUM/NON-PLENUM:

Plenum (Y/N)	N
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ELECTRICAL CHARACTERISTICS:

Nom. Mutual Capacitance @ 1 KHz	15 pF/ft
Maximum Capacitance Unbalance (pF/100 m)	330 pF/100 m
Nominal Velocity of Propagation	69 %
Maximum Delay (ns/100 m)	510 @ 100MHz ns/100 m
Typical Delay Skew	12 ns/ft
Maximum Delay Skew (ns/100m)	45 ns/100 m
Maximum Conductor DC Resistance @ 20 Deg. C	9.38 Ohms/100 m
Maximum DCR Unbalance @ 20 Deg. C	3 %
Max. Operating Voltage - UL	300 V RMS

ELECTRICAL CHARACTERISTICS - PREMISE:

Premise Cable Electricals Table 1 :	
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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	2.5	65.3	62.3	62.8	59.8	20.0	23.0
4	4.9	56.3	53.3	51.4	48.4	23.0	23.0
8	6.9	51.8	48.8	44.9	41.9	24.5	24.5
10	7.8	50.3	47.3	42.5	39.5	25.0	25.0
16	9.9	47.3	44.3	37.4	34.4	25.0	25.0
20	11.1	45.8	42.8	34.7	31.7	25.0	25.0
25	12.5	44.3	41.3	21.8	28.8	24.3	24.3
31.25	14.1	42.9	39.9	28.8	25.8	23.6	23.6
62.5	20.4	38.4	35.4	18.0	15.0	21.5	21.5
100	26.4	35.3	32.3	8.9	5.9	20.1	20.1
155	33.7	32.5	29.5			15.8	
200	38.9	30.8	27.8			15.0	

Premise Cable Electricals Table 2 :

Frequency (MHz)	Input (Unfitted) Impedance (Ohms)	Fitted Impedance (Ohms)	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 Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5e.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1592A 0021000	4 PR #24 PP FR PVC	1000	23	RED	C
1592A 002U1000	4 PR #24 PP FR PVC	U1000	22	RED	
1592A 0031000	4 PR #24 PP FR PVC	1000	23	ORANGE	C
1592A 003U1000	4 PR #24 PP FR PVC	U1000	26	ORANGE	

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1592A 0041000	4 PR #24 PP FR PVC	1000	23	YELLOW	
1592A 004U1000	4 PR #24 PP FR PVC	U1000	22	YELLOW	
1592A 0051000	4 PR #24 PP FR PVC	1000	22	GREEN, DARK	C
1592A 005U1000	4 PR #24 PP FR PVC	U1000	22	GREEN, DARK	
1592A 0061000	4 PR #24 PP FR PVC	1000	23	BLUE, LIGHT	C
1592A 006U1000	4 PR #24 PP FR PVC	U1000	22	BLUE, LIGHT	
1592A 0071000	4 PR #24 PP FR PVC	1000	23	VIOLET	C
1592A 007U1000	4 PR #24 PP FR PVC	U1000	22	VIOLET	
1592A 0091000	4 PR #24 PP FR PVC	1000	23	WHITE	C
1592A 009U1000	4 PR #24 PP FR PVC	U1000	22	WHITE	
1592A 0101000	4 PR #24 PP FR PVC	1000	23	BLACK	C
1592A 010U1000	4 PR #24 PP FR PVC	U1000	22	BLACK	
1592A F2V1000	4 PR #24 PP FR PVC	1000	23	GRAY, DEC	
1592A F2VU1000	4 PR #24 PP FR PVC	U1000	22	GRAY, DEC	

C = CRATE REEL PUT-UP.

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