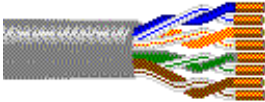


Detailed Specifications & Technical Data



1752A Paired - DataTwist® Enhanced 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, 350MHz Enhanced Category 5e, Vertical Tray Rated, 24 AWG Stranded Tinned Copper Conductors, Polyolefin® Insulation, Bonded Pairs, Flexible PVC Jacket, Sequential Marking 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, Noisy Environments
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PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Pairs	4
Total Number of Conductors	8
AWG	24
Stranding	7x32
Conductor Material	TC - Tinned 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:

**Detailed Specifications &
Technical Data**



1752A Paired - DataTwist® Enhanced Category 5e

Overall Nominal Diameter	0.220 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-20°C To +80°C
Bulk Cable Weight	25 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	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 5, ICEA 661, Cat 5x-100 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)	66 pF/100 m
Nominal Velocity of Propagation	70 %
Maximum Delay (ns/100 m)	510 ns/100 m
Maximum Delay Skew (ns/100m)	25 ns/100 m
Maximum Conductor DC Resistance @ 20 Deg. C	9 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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Detailed Specifications & Technical Data



1752A Paired - DataTwist® Enhanced Category 5e

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	2.4	65.3	65.3		62.9	20.0	
4	4.8	56.3	56.3		51.5	23.0	
8	6.8	51.8	51.8		45.0	24.5	
10	7.7	50.3	50.3		42.6	25.0	
16	9.7	47.3	47.3		37.5	25.0	
20	11.0	45.8	45.8		34.8	25.0	
25	12.4	44.3	44.3		31.9	24.3	
31.25	13.9	42.9	42.9		29.0	23.6	
62.5	20.2	38.4	38.4		18.3	21.5	
100	26.0	35.3	35.3		9.2	20.1	
155	33.2	32.5	32.5		0	19.0	
200	38.4	30.8	30.8			19.0	
250	43.7	29.3	29.3			18.0	
300	48.6	28.2	28.2			18.0	
310	49.5	27.9	27.9			18.0	
350	53.2	27.2	27.2			17.0	

Premise Cable Electricals Table 2 :

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

NOTES:

Notes

US Patent #'s 5, 606, 151; 5, 734, 126; 5, 763, 823.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
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**Detailed Specifications &
Technical Data**



1752A Paired - DataTwist® Enhanced Category 5e

1752A 0021000	4 PR #24 PP FRPVC	1000	24	RED	C
1752A 002U1000	4 PR #24 PP FRPVC	U1000	24	RED	
1752A 0031000	4 PR #24 PP FRPVC	1000	25	ORANGE	C
1752A 003U1000	4 PR #24 PP FRPVC	U1000	24	ORANGE	
1752A 0041000	4 PR #24 PP FRPVC	1000	24	YELLOW	C
1752A 004U1000	4 PR #24 PP FRPVC	U1000	24	YELLOW	
1752A 0051000	4 PR #24 PP FRPVC	1000	25	GREEN, DARK	C
1752A 005U1000	4 PR #24 PP FRPVC	U1000	24	GREEN, DARK	
1752A 0061000	4 PR #24 PP FRPVC	1000	25	BLUE, LIGHT	C
1752A 006U1000	4 PR #24 PP FRPVC	U1000	24	BLUE, LIGHT	
1752A 0071000	4 PR #24 PP FRPVC	1000	25	VIOLET	C
1752A 007U1000	4 PR #24 PP FRPVC	U1000	24	VIOLET	
1752A 0101000	4 PR #24 PP FRPVC	1000	25	BLACK	C
1752A 010U1000	4 PR #24 PP FRPVC	U1000	24	BLACK	
1752A F2V1000	4 PR #24 PP FRPVC	1000	25	GRAY, DEC	C
1752A F2VU1000	4 PR #24 PP FRPVC	U1000	24	GRAY, DEC	

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 07-22-2004

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