

**Detailed Specifications & Technical Data**



**1624R Paired - DataTwist® Category 5**

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

4 pair ScTP, riser rated, 24 AWG solid bare copper conductors, polyolefin insulation, foil shield bonded to PVC jacket. Sequential marking at two foot intervals.

**SUITABLE APPLICATIONS:**

Suitable Applications Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Video, RS-422, 100MHz Category 5

**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
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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 Trade Name	Beldfoil®
Outer Shield Type	Tape
Outer Shield Material	Aluminum Foil-Polyester Tape
Outer Shield % Coverage	100 %

**OUTER SHIELD DRAIN WIRE :**

Outer Shield Drain Wire AWG	24
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Outer Shield Drain Wire Stranding	7x32
Outer Shield Drain Wire Conductor Material	TC - Tinned Copper

**OUTER JACKET:**

Outer Jacket Material	PVC - Polyvinyl Chloride
Outer Jacket Ripcord	No

**OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter	.250 in.
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**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-20°C To +75°C
Bulk Cable Weight	30 lbs/1000 ft.
Max. Recommended Pulling Tension	25 lbs.
Min. Bend Radius (Install)	1 in.

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

NEC/(UL) Specification	CMR, UL444
CEC/C(UL) Specification	CMR
IEC Specification	11801 Category 5
TIA/EIA Specification	568-B.2 Category 5
Other Specification	NEMA WC-63.1 Category 5, UL Verified to Category 5

**FLAME TEST:**

UL Flame Test	UL1666 Riser
CSA Flame Test	FT4

**PLENUM/NON-PLENUM:**

Plenum (Y/N)	N
Plenum Number	1624P

**ELECTRICAL CHARACTERISTICS:**

Nom. Mutual Capacitance @ 1 KHz	15 pF/ft
Maximum Capacitance Unbalance (pF/100 m)	300 pF/100 m
Nominal Velocity of Propagation	67 %
Maximum Delay (ns/100 m)	538 @ 100MHz ns/100 m
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:**

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Premise Cable Electricals :

Frequency (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. Structural Return Loss (dB)	Fitted Impedance (Ohms)
1	2.0	62.2	62.3	23.0	100 ± 15%
4	4.1	53.3	53.3	23.0	100 ± 15%
8	5.8	48.8	48.8	23.0	100 ± 15%
10	6.5	47.3	47.3	23.0	100 ± 15%
16	8.2	44.3	44.3	23.0	100 ± 15%
20	9.3	42.8	42.8	23.0	100 ± 15%
25	10.4	41.3	41.3	22.0	100 ± 15%
31.25	11.7	39.9	39.9	21.1	100 ± 15%
62.5	17.0	35.4	35.4	18.0	100 ± 15%
100	22.0	32.2	32.3	16.0	100 ± 15%

**NOTES:**

Notes

Shield is bonded to jacket inner wall for electrical stability. RJ-45 Compatible. Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 5.

**PUT-UPS AND COLORS:**

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
1624R 0021000	4 PR #24 PP FS PVC	1000	33	RED	C
1624R 002A1000	4 PR #24 PP FS PVC	A1000	36	RED	
1624R 0031000	4 PR #24 PP FS PVC	1000	33	ORANGE	C
1624R 003A1000	4 PR #24 PP FS PVC	A1000	36	ORANGE	
1624R 0041000	4 PR #24 PP FS PVC	1000	33	YELLOW	C
1624R 004A1000	4 PR #24 PP FS PVC	A1000	36	YELLOW	
1624R 0051000	4 PR #24 PP FS PVC	1000	33	GREEN, DARK	C
1624R 005A1000	4 PR #24 PP FS PVC	A1000	36	GREEN, DARK	
1624R 0061000	4 PR #24 PP FS PVC	1000	33	BLUE, LIGHT	C
1624R 006A1000	4 PR #24 PP FS PVC	A1000	36	BLUE, LIGHT	
1624R B021000	4 PR #24 PP FS PVC	1000	33	PURPLE	
1624R B02A1000	4 PR #24 PP FS PVC	A1000	36	PURPLE	
1624R F2V1000	4 PR #24 PP FS PVC	1000	33	GRAY, DEC	C
1624R F2V1640	4 PR #24 PP FS PVC	1640	54.12	GRAY, DEC	

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1624R F2VA1000	4 PR #24 PP FS PVC	A1000	36	GRAY, DEC	
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C = CRATE REEL PUT-UP.

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