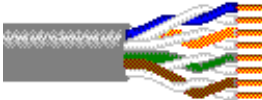


**Detailed Specifications &  
Technical Data**



**1624P 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>
---	--

**Description:**

4 pair ScTP, 24 AWG solid bare copper conductors, FEP insulation, foil shield bonded to Flammarrest® 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	FEP - Fluorinated Ethylene Propylene
---------------------	--------------------------------------

**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
-----------------------------	----

**Detailed Specifications &  
Technical Data**



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

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

**OUTER JACKET:**

Outer Jacket Material Trade Name	Flamarrest®
Outer Jacket Material	LS PVC - Low Smoke Polyvinyl Chloride
Outer Jacket Ripcord	No

**OVERALL NOMINAL DIAMETER:**

Overall Nominal Diameter	.235 in.
--------------------------	----------

**MECHANICAL CHARACTERISTICS:**

Operating Temperature Range	-20°C To +75°C
Bulk Cable Weight	34 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	CMP, UL444
CEC/C(UL) Specification	CMP
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	UL910 Plenum
CSA Flame Test	FT6

**PLENUM/NON-PLENUM:**

Plenum (Y/N)	Y
Non-Plenum Number	1624R

**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

**Detailed Specifications &  
Technical Data**



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

**ELECTRICAL CHARACTERISTICS - PREMISE:**

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
1624P 0021000	4 PR #24 FEP FS PVC	1000	32	RED	C
1624P 0031000	4 PR #24 FEP FS PVC	1000	32	ORANGE	C Z
1624P 0041000	4 PR #24 FEP FS PVC	1000	32	YELLOW	C
1624P 004A1000	4 PR #24 FEP FS PVC	A1000	35	YELLOW	Z
1624P 0051000	4 PR #24 FEP FS PVC	1000	32	GREEN, DARK	C
1624P 0071000	4 PR #24 FEP FS PVC	1000	32	VIOLET	C
1624P 0081000	4 PR #24 FEP FS PVC	1000	32	GRAY	C
1624P 008A1000	4 PR #24 FEP FS PVC	A1000	35	GRAY	Z
1624P 8771000	4 PR #24 FEP FS PVC	1000	32	NATURAL	Z C
1624P 877A1000	4 PR #24 FEP FS PVC	A1000	35	NATURAL	Z
1624P D151000	4 PR #24 FEP FS PVC	1000	32	BLUE	C
1624P D15A1000	4 PR #24 FEP FS PVC	A1000	35	BLUE	Z

C = CRATE REEL PUT-UP.

**Detailed Specifications &  
Technical Data**



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

Z = FINAL PUT-UP LENGTH MAY VARY (+ OR -) 10% FOR SPOOLS OR REELS AND (+ OR -) 5% FOR UNREEL CARTONS FROM LENGTH SHOWN.

Revision Number: 1      Revision Date: 09-09-2004

© 2003 Belden Wire & Cable Company  
All Rights Reserved.

Although Belden Electronics Division ("Belden") makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability. Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein. All sales of Belden products are subject to Belden's standard terms and conditions of sale.