

## 1624P Multi-Conductor - Category 5 Nonbonded-Pair ScTP Cable



For more Information  
please call

1-800-Belden1

**General Description:**

CAT5 (100MHz), 4-Pair, F/UTP-Foil shielded, Plenum-CMP, Premise Horizontal Cable, 24 AWG solid bare copper conductors, FEP insulation, overall Beldfoil® shield, Flamarrest® jacket, RJ-45 compatible

**Usage (Overall)****Suitable Applications:**

Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG  
 ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video,  
 AES/EBU Digital Audio, AES51, RS-422, 100MHz Category 5

**Physical Characteristics (Overall)****Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material
4	24	Solid	BC - Bare Copper

**Total Number of Conductors:**

8

**Insulation****Insulation Material:**

Insulation Material
FEP - Fluorinated Ethylene Propylene

**Outer Shield****Outer Shield Material:**

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

**Outer Shield Drain Wire AWG:**

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

**Outer Jacket****Outer Jacket Material:**

Outer Jacket Trade Name	Outer Jacket Material
Flamarrest®	LS PVC - Low Smoke Polyvinyl Chloride

**Outer Jacket Diameter:**

Nom. Dia. (mm)
5.969

**Pair****Pair Color Code Chart:**

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

**Mechanical Characteristics (Overall)****Operating Temperature Range:**

-20°C To +75°C

**Bulk Cable Weight:**

50.599 Kg/Km

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Max. Recommended Pulling Tension:	111.205 N
Min. Bend Radius/Minor Axis:	25.400 mm
Min. Bend/Installation:	59.690 mm

**Applicable Specifications and Agency Compliance (Overall)****Applicable Standards & Environmental Programs**

NEC/(UL) Specification:	CMP, UL444
CEC/C(UL) Specification:	CMP
EU Directive 2011/65/EU (ROHS II):	Yes
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2005
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Other Specification:	NEMA WC-63.1 Category 5

**Flame Test**

UL Flame Test:	NFPA 262
CSA Flame Test:	FT6

**Plenum/Non-Plenum**

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

**Electrical Characteristics (Overall)****Nom. Mutual Capacitance:**

Capacitance (pF/m)
49.215

Maximum Capacitance Unbalance (pF/100 m):	300
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**Nominal Velocity of Propagation:**

VP (%)
67

**Maximum Delay:**

Delay (ns/100 m)
538 @ 100MHz

**Max. Delay Skew:**

Delay Skew (ns/100 m)
45

**Maximum Conductor DC Resistance:**

DCR @ 20°C (Ohm/100 m)
9.38

**Max. Operating Voltage - UL:**

Voltage
300 V RMS

**Maximum DCR Unbalanced:**

DCR Unbalance @ 20°C (%)
3

**1624P Multi-Conductor - Category 5 Nonbonded-Pair ScTP Cable****Electrical Characteristics-Premise (Overall)****Premise Cable Electricals:**

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. SRL (dB)	Fitted Imp. (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 (Overall)**

**Notes:** 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 #	Putup	Ship Weight	Color	Notes	Item Desc
1624P D15A1000	1,000 FT	36.000 LB	BLUE	Z	CAT5 4PR F/UTP CMP RIB
1624P D151000	1,000 FT	34.000 LB	BLUE	C	CAT5 4PR F/UTP CMP REEL
1624P 0021000	1,000 FT	34.000 LB	RED	C	CAT5 4PR F/UTP CMP REEL
1624P 0031000	1,000 FT	34.000 LB	ORANGE	C Z	CAT5 4PR F/UTP CMP REEL
1624P 004A1000	1,000 FT	36.000 LB	YELLOW	Z	CAT5 4PR F/UTP CMP RIB
1624P 0041000	1,000 FT	34.000 LB	YELLOW	C	CAT5 4PR F/UTP CMP REEL
1624P 0051000	1,000 FT	34.000 LB	GREEN, DARK	C	CAT5 4PR F/UTP CMP REEL
1624P 0071000	1,000 FT	34.000 LB	VIOLET	C	CAT5 4PR F/UTP CMP REEL
1624P 008A1000	1,000 FT	36.000 LB	GRAY	Z	CAT5 4PR F/UTP CMP RIB
1624P 0081000	1,000 FT	34.000 LB	GRAY	C	CAT5 4PR F/UTP CMP REEL
1624P 877A1000	1,000 FT	36.000 LB	NATURAL	Z	CAT5 4PR F/UTP CMP RIB
1624P 8771000	1,000 FT	34.000 LB	NATURAL	Z C	CAT5 4PR F/UTP CMP REEL

**Notes:**

C = CRATE REEL PUT-UP.

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

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