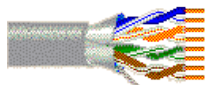


## 1624P Multi-Conductor - Category 5 Nonbonded-Pair ScTP Cable



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   |
| 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        |

## METRIC MEASUREMENT VERSION

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

|                                       |                         |
|---------------------------------------|-------------------------|
| 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

##### 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

#### 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:

## METRIC MEASUREMENT VERSION

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

| 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 D15I1000 | 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 004I1000 | 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 008I1000 | 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 877I1000 | 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.

Revision Number: 4    Revision Date: 08-14-2013

© 2017 Belden, Inc.  
All Rights Reserved.

Although 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. Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product. Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).