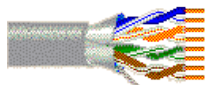


## 1624R Multi-Conductor - Category 5 Nonbonded-Pair ScTP Cable



For more Information  
please call

1-800-Belden1



### General Description:

CAT5 (100MHz), 4-Pair, F/UTP-Foil shielded, Riser-CMR, Premise Horizontal Cable, 24 AWG solid bare copper conductors, Polyolefin insulation, Beldfoil® shield, PVC 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 |
|---------------------|
| PO - Polyolefin     |

#### 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 Material    |
|--------------------------|
| PVC - Polyvinyl Chloride |

Outer Jacket Diameter:

| Nom. Dia. (in.) |
|-----------------|
| 0.260           |

#### Pair

Pair Color Code Chart:

| Number | Color                         |
|--------|-------------------------------|
| 1      | White/Blue Stripe & Blue      |
| 2      | White /Orange Stripe & Orange |
| 3      | White/Green Stripe & Green    |
| 4      | White/Brown Stripe & Brown    |

### Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

Bulk Cable Weight: 30 lbs/1000 ft.

Max. Recommended Pulling Tension: 25 lbs.

Min. Bend Radius/Minor Axis: 1 in.

Min. Bend/Installation: 2.600 in.

### Applicable Specifications and Agency Compliance (Overall)

#### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR, UL444

CEC/(UL) Specification: CMR

## 1624R 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): | 01/01/2004              |
| 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:  | UL1666 Riser |
| CSA Flame Test: | FT4          |

### Plenum/Non-Plenum

|                |       |
|----------------|-------|
| Plenum (Y/N):  | No    |
| Plenum Number: | 1624P |

### Electrical Characteristics (Overall)

#### Nom. Mutual Capacitance:

Capacitance (pF/ft)  
15

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: 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:

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

| Item #         | Putup    | Ship Weight | Color       | Notes | Item Desc               |
|----------------|----------|-------------|-------------|-------|-------------------------|
| 1624R B02A1000 | 1,000 FT | 36.000 LB   | PURPLE      | C Z   | CAT5 4PR F/UTP CMR RIB  |
| 1624R B021000  | 1,000 FT | 33.000 LB   | PURPLE      | C Z   | CAT5 4PR F/UTP CMR REEL |
| 1624R F2VA1000 | 1,000 FT | 36.000 LB   | GRAY, DEC   | C Z   | CAT5 4PR F/UTP CMR RIB  |
| 1624R F2V1000  | 1,000 FT | 33.000 LB   | GRAY, DEC   | C Z   | CAT5 4PR F/UTP CMR REEL |
| 1624R F2V1640  | 1,640 FT | 54.120 LB   | GRAY, DEC   | Z     | CAT5 4PR F/UTP CMR REEL |
| 1624R 002A1000 | 1,000 FT | 36.000 LB   | RED         | C Z   | CAT5 4PR F/UTP CMR RIB  |
| 1624R 0021000  | 1,000 FT | 33.000 LB   | RED         | C Z   | CAT5 4PR F/UTP CMR REEL |
| 1624R 003A1000 | 1,000 FT | 36.000 LB   | ORANGE      | C Z   | CAT5 4PR F/UTP CMR RIB  |
| 1624R 0031000  | 1,000 FT | 33.000 LB   | ORANGE      | C Z   | CAT5 4PR F/UTP CMR REEL |
| 1624R 004A1000 | 1,000 FT | 36.000 LB   | YELLOW      | C Z   | CAT5 4PR F/UTP CMR RIB  |
| 1624R 0041000  | 1,000 FT | 33.000 LB   | YELLOW      | C Z   | CAT5 4PR F/UTP CMR REEL |
| 1624R 005A1000 | 1,000 FT | 36.000 LB   | GREEN, DARK | C Z   | CAT5 4PR F/UTP CMR RIB  |
| 1624R 0051000  | 1,000 FT | 33.000 LB   | GREEN, DARK | C Z   | CAT5 4PR F/UTP CMR REEL |
| 1624R 006A1000 | 1,000 FT | 36.000 LB   | BLUE, LIGHT | C Z   | CAT5 4PR F/UTP CMR RIB  |
| 1624R 0061000  | 1,000 FT | 33.000 LB   | BLUE, LIGHT | C Z   | CAT5 4PR F/UTP CMR 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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