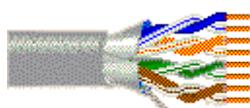


Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

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



For more Information
please call

1-800-Belden1



Description:

24 AWG solid bare copper conductors, plenum, FEP Teflon® insulation, twisted pairs, overall Beldfoil® shield, 24 AWG (7x32) tinned copper drain wire, RJ-45 compatible, see color code chart (below), Flamarrest® jacket (red, orange, yellow, green, blue, purple, gray or natural).

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 |

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 |

Overall Cable

Overall Nominal Diameter:

0.235 in.

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: 34 lbs/1000 ft.

Max. Recommended Pulling Tension: 25 lbs.

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

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

Min. Bend Radius (Install)/Minor Axis: 1 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP, UL444

CEC/C(UL) Specification: CMP

Other Standards: 11801 Category 5

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

Telecommunications Standards: 568-B.2 Category 5

Other Specification: NEMA WC-63.1 Category 5, ETL Verified to 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/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

Distributed By:



Page 2 of 3

1-800-527-0010

01-06-2012

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

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.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|----------|-------------|-------------|-------|-------------------------|
| 1624P D15A1000 | 1,000 FT | 35.000 LB | BLUE | Z | CAT5 4PR F/UTP CMP RIB |
| 1624P D151000 | 1,000 FT | 33.000 LB | BLUE | C | CAT5 4PR F/UTP CMP REEL |
| 1624P 0021000 | 1,000 FT | 33.000 LB | RED | C | CAT5 4PR F/UTP CMP REEL |
| 1624P 0031000 | 1,000 FT | 33.000 LB | ORANGE | C Z | CAT5 4PR F/UTP CMP REEL |
| 1624P 004A1000 | 1,000 FT | 35.000 LB | YELLOW | Z | CAT5 4PR F/UTP CMP RIB |
| 1624P 0041000 | 1,000 FT | 33.000 LB | YELLOW | C | CAT5 4PR F/UTP CMP REEL |
| 1624P 0051000 | 1,000 FT | 33.000 LB | GREEN, DARK | C | CAT5 4PR F/UTP CMP REEL |
| 1624P 0071000 | 1,000 FT | 33.000 LB | VIOLET | C | CAT5 4PR F/UTP CMP REEL |
| 1624P 008A1000 | 1,000 FT | 35.000 LB | GRAY | Z | CAT5 4PR F/UTP CMP RIB |
| 1624P 0081000 | 1,000 FT | 33.000 LB | GRAY | C | CAT5 4PR F/UTP CMP REEL |
| 1624P 877A1000 | 1,000 FT | 35.000 LB | NATURAL | Z | CAT5 4PR F/UTP CMP RIB |
| 1624P 8771000 | 1,000 FT | 33.000 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: 2 Revision Date: 03-24-2011

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