



Product: [1624R](#)

Category 5 Cable, 4 Pair, F/UTP, CMR

Product Description

Category 5 Premise Horizontal Cable (100MHz), 4 Pairs, 24 AWG Solid Bare Copper Conductors, F/UTP - Foil Shielded, Riser-CMR, PVC Jacket

Technical Specifications

Product Overview

Suitable Applications:	Premise Horizontal Cable, Ethernet 1000BASE-T, Ethernet 100BASE-TX, Ethernet 10BASE-T, PoE++, PoE+, PoE , Noisy Environments
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Construction Details

Conductor

AWG	Stranding	Material	Number of Pairs
24	Solid	BC - Bare Copper	4

Insulation

Material	Thickness	Color Code
PO - Polyolefin	0.01 in	White/Blue Stripe & Blue, White /Orange Stripe & Orange, White/Green Stripe & Green, White/Brown Stripe & Brown

Bonded-Pair:	No
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Outer Shield Material

Type	Material	Coverage	Drainwire Type
Tape	Polyester + Bi-Laminate (Alum+Poly)	100%	24 AWG (7x32) TC

Outer Jacket Material

Material	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.26 in	No

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. DCR Unbalance	Nom. Mutual Capacitance
93.8 Ohm/km	3%	15 pF/ft

Delay

Max. Delay	Max. Delay Skew	Nom. Velocity of Propagation (VP) [%]
538 ns/100m	45 ns/100m	67%

High Freq

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. SRL (Structural Return Loss)	Max./Min. Fitted Impedance
1 MHz	2 dB/100m	62.2 dB	62.3 dB	23 dB	100 ± 15 Ohm
4 MHz	4.1 dB/100m	53.3 dB	53.3 dB	23 dB	100 ± 15 Ohm
8 MHz	5.8 dB/100m	48.8 dB	48.8 dB	23 dB	100 ± 15 Ohm
10 MHz	6.5 dB/100m	47.3 dB	47.3 dB	23 dB	100 ± 15 Ohm
16 MHz	8.2 dB/100m	44.3 dB	44.3 dB	23 dB	100 ± 15 Ohm
20 MHz	9.3 dB/100m	42.8 dB	42.8 dB	23 dB	100 ± 15 Ohm
25 MHz	10.4 dB/100m	41.3 dB	41.3 dB	22 dB	100 ± 15 Ohm

31.25 MHz	11.7 dB/100m	39.9 dB	39.9 dB	21.1 dB	100 ± 15 Ohm
62.5 MHz	17 dB/100m	35.4 dB	35.4 dB	18 dB	100 ± 15 Ohm
100 MHz	22 dB/100m	32.2 dB	32.3 dB	16 dB	100 ± 15 Ohm

Voltage

UL Voltage Rating
300 V (CMR)

Mechanical Characteristics

Temperature

Operating
-20°C To +75°C

Bend Radius

Installation Min.
2.6 in

Max. Pull Tension:	25 lbs
Bulk Cable Weight:	30 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Riser, Indoor
Flammability / Fire Resistance:	UL 1666 Riser, FT4, FT4, IEC 60332-1-2
NEC / UL Compliance:	Article 800, CMR
CEC / C(UL) Compliance:	CMR
IEEE Compliance:	IEEE 802.3bt Type 1, Type 2, Type 3
Data Category:	Category 5
CPR Euroclass:	Eca
European Directive Compliance:	EU CE Mark, EU Directive 2015/863/EU (RoHS 2 amendment), REACH, EU Directive 2011/65/EU (RoHS 2), EU Directive 2012/19/EU (WEEE), REACH: 2020-01-16
APAC Compliance:	China RoHS II (GB/T 26572-2011)

Part Number

Plenum Number:	1624P
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Variants

Item #	Color	Putup Type	Length	UPC
1624R 0061000	Blue	Reel	1,000 ft	612825119623
1624R 006A1000	Blue	Reel-in-Box	1,000 ft	612825119616
1624R F2V1000	Gray	Reel	1,000 ft	612825119517
1624R F2VA1000	Gray	Reel-in-Box	1,000 ft	612825119500
1624R F2V1640	Gray	Reel	1,640 ft	612825119524
1624R 0051000	Green	Reel	1,000 ft	612825119609
1624R 005A1000	Green	Reel-in-Box	1,000 ft	612825119593
1624R 0031000	Orange	Reel	1,000 ft	612825119562
1624R 003A1000	Orange	Reel-in-Box	1,000 ft	612825119555
1624R B021000	Purple	Reel	1,000 ft	612825119494
1624R B02A1000	Purple	Reel-in-Box	1,000 ft	612825119487
1624R 0021000	Red	Reel	1,000 ft	612825119548
1624R 002A1000	Red	Reel-in-Box	1,000 ft	612825119531
1624R 0041000	Yellow	Reel	1,000 ft	612825119586
1624R 004A1000	Yellow	Reel-in-Box	1,000 ft	612825119579

Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. 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.
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History

Update and Revision:	Revision Number: 0.277 Revision Date: 07-02-2021
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