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

Construction Details

Conductor

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

Insulation

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

Outer Shield

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

Outer Jacket

Material	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	0.260 in (6.60 mm)	No

Overall Cable Diameter (Nominal):	0.260 in (6.60 mm)

Electrical Characteristics

Electricals

Max. Conductor DCR
93.8 Ohm/km

Delay

Max. Delay	Max. Delay Skew	Nom. Velocity of Prop.
538 ns/100m	45 ns/100m	67%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. SRL (Structural Return Loss) [dB]	Max./Min. Fitted Impedance
1	2.0 dB/100m	62.2	62.3	23	100 ± 15 Ohm
4	4.1 dB/100m	53.3	53.3	23	100 ± 15 Ohm
8	5.8 dB/100m	48.8	48.8	23	100 ± 15 Ohm
10	6.5 dB/100m	47.3	47.3	23	100 ± 15 Ohm
16	8.2 dB/100m	44.3	44.3	23	100 ± 15 Ohm
20	9.3 dB/100m	42.8	42.8	23	100 ± 15 Ohm
25	10.4 dB/100m	41.3	41.3	22	100 ± 15 Ohm

31.25	11.7 dB/100m	39.9	39.9	21.1	100 ± 15 Ohm
62.5	17.0 dB/100m	35.4	35.4	18	100 ± 15 Ohm
100	22.0 dB/100m	32.2	32.3	16	100 ± 15 Ohm

Voltage

UL Voltage Rating
300 V (CMR)

Mechanical Characteristics

Temperature

Operating
-20°C To +75°C

Bend Radius

Stationary Min.	Installation Min.
1 in (25 mm)	2.6 in (66 mm)

Max. Pull Tension:	25 lbs (11 kg)
Bulk Cable Weight:	30 lbs/1000ft

Standards and Compliance

Environmental Suitability:	Riser, Indoor
Flammability / Reaction to Fire:	UL 1666 Riser, FT4, FT4, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
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
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
UK Regulation Compliance:	UKCA Mark
APAC Compliance:	China RoHS II (GB/T 26572-2011)
Plenum Number:	1624P

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.

History

Update and Revision:	Revision Number: 0.331 Revision Date: 02-16-2022

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

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