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Product: 1624P

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

Product Description

Category 5 Premise Horizontal Cable (100MHz), 4 Pair, 24 AWG Solid Bare Copper Conductors, F/UTP - Foil Shielded, Plenum-CMP, Flamarrest® PVC-LS 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
FEP - Fluorinated Ethylene Propylene	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown

Outer Shield

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

Outer Jacket

Material	Material Trade Name	Nom. Diameter	Ripcord
PVC - Polyvinyl Chloride	Flamarrest®	0.235 in (5.97 mm)	No

Overall Cable Diameter (Nominal):	0.235 in (5.97 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 (CMP)

Mechanical Characteristics

Temperature

Operating
-20°C To +75°C

Bend Radius

Stationary Min.	Installation Min.
1 in (25 mm)	2.35 in (59.7 mm)

Max. Pull Tension:	25 lbs (11 kg)
Bulk Cable Weight:	32 lbs/1000ft (48 kg/km)

Standards and Compliance

Environmental Suitability:	Plenum, Indoor
Flammability / Reaction to Fire:	NFPA 262, UL 910 (Plenum), FT6, FT6, IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
NEC / UL Compliance:	Article 800, CMP
CEC / C(UL) Compliance:	CMP
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)
Non-Plenum Number:	1624R

Product Notes

Notes:	Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. 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: 0.327 Revision Date: 02-16-2022

Variants

Item #	Color	Putup Type	Length	UPC
1624P D151000	Blue	Reel	1,000 ft	612825119371
1624P D15A1000	Blue	Reel-in-Box	1,000 ft	612825119364
1624P 0081000	Gray	Reel	1,000 ft	612825119456
1624P 008A1000	Gray	Reel-in-Box	1,000 ft	612825119449
1624P 0051000	Green	Reel	1,000 ft	612825119425
1624P 8771000	Natural	Reel	1,000 ft	612825119470
1624P 877A1000	Natural	Reel-in-Box	1,000 ft	612825119463
1624P 0031000	Orange	Reel	1,000 ft	612825119395
1624P 0071000	Purple	Reel	1,000 ft	612825119432
1624P 0021000	Red	Reel	1,000 ft	612825119388
1624P 0041000	Yellow	Reel	1,000 ft	612825119418
1624P 004A1000	Yellow	Reel-in-Box	1,000 ft	612825119401

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