



Product: <u>1633PES</u> ☑

Category 5e Cable, 4 Pair, SF/UTP, PE

Product Description

Category 5e Premise Horizontal Cable (100MHz), 4-Pair, 24 AWG solid bare copper conductors, SF/UTP, Polyethylene insulation, Beldfoil® shield, AWG 26 solid tinned copper drainwire, tinned copper braid (30% coverage), PE jacket

Technical Specifications

Product Overview

Suitable Applications: Horizontal and building backbone cable; Support current and future Category 5e applications, such as: 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATM

Construction Details

Conductor

Element	Size	Stranding	Material	No. of Pairs	No. of Elements
Individual Pair	24 AWG	Solid	BC - Bare Copper	4	8

Insulation

Element	Material	Nom. Insulation Diameter	Color Code
Individual Pair	PE - Polyethylene	1.05 mm (0.0413 in)	White/Blue & Blue, White/Green & Green, White/Orange & Orange, White/Brown & Brown

Cable Core

Description
4 pairs twisted together covered with a polyester foil

Outer Shield

Table Notes:	Table Notes: Aluminum facing outside in contact		
Braid	Tinned Copper (TC)	30%	
Таре	Bi-Laminate (Alum+Poly)) 100%	26 AWG (Solid) TC
Shield Type	Material	Coverage	Drainwire Type

Outer Jacket

Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance	Nom. Characteristic Impedance
95 Ohm/km	56 pF/m (17 pF/ft)	160 pF/100m	100 Ohm

Delay

Max. Delay Skew	Nom. Velocity of Prop.
40 ns/100m	69%

High Frequency

Frequency	Max. Insertion Loss	Min. NEXT	Min. PSNEXT	Min. ACR	Min. PSACR	Min. ACRF	Min. PSACRF	Min. RL (Return	Min. TCL	Min. ELTCTL
[MHz]	(Attenuation)	[dB]	[dB]	[dB]	[dB]	(ELFEXT) [dB]	(PSELFEXT) [dB]	Loss) [dB]	[dB]	[dB]

Table Notes	s·	Limits below 4 Mi	lz are for inform	ation only Refe	rence standard	: IEC 61156-5				
100	21.3 dB/100m	35.3	32.3	14	11	24	21	20.1	20	
62.5	16.5 dB/100m	38.4	35.4	21.9	18.9	28.1	25.1	21.5	22	
31.25	11.4 dB/100m	42.9	39.9	31.5	28.5	34.1	31.5	23.6	25.1	5.5
20	9 dB/100m	45.8	42.8	36.8	33.8	38	35	25	27	9
16	8 dB/100m	47.2	44.2	39.2	36.2	39.9	36.9	25	28	10.9
10	6.3 dB/100m	50.3	47.3	44	41	44	41	25	30	15
4	4 dB/100m	56.3	53.3	52.32	49.3	52	49	23	34	23
1	2.1 dB/100m	65.3	62.3	63.2	60.2	64	61	20	40	35

Transfer Impedance

Frequency	Max. Transfer Impedance
1 Mhz	Max. 50 mOhm/m
10 Mhz	Max. 100 mOhm/m
30 Mhz	Max. 200 mOhm/m
100 Mhz	Max. 1000 mOhm/m

Transfer Impedance Class:	Grade 2
Screening Class:	Type II
Table Notes:	Coupling Attenuation

Voltage

Voltage Rating 72 V DC

Mechanical Characteristics

Temperature

Operating	Installation
-30 to +60	0 to +50

Bend Radius

25 mm (0.98 in) 50 mm	
Max. Pull Tension:	72 N (16 lbf)
Bulk Cable Weight:	45 kg/km

Standards and Compliance

Stationary Min. Installation Min

Environmental Suitability:	Indoor/Outdoor, Sunlight Resistance - Black only
IEEE Compliance:	PoE: IEEE 802.3bt Type 1, Type 2, Type 3
Data Category:	Category 5e
TIA/EIA Compliance:	ANSI/TIA 568.2-D
ISO/IEC Compliance:	ISO/IEC 11801-1
CENELEC Compliance:	EN 50173-1, Segregation class according EN50174-2 = c
European Directive Compliance:	EU CE Mark
UK Regulation Compliance:	UKCA Mark

History

Update and Revision:	Revision Number: 0.212 Revision Date: 04-29-2024

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
1633PES.00500	Black	Reel	500 m	8719605155986

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