



Product: <u>1633PE</u> ☑

Category 5e Cable, 4 Pair, F/UTP, PE Outdoor

Product Description

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

Technical Specifications

Product Overview

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

Shield Type	Material	Coverage	Drainwire Type
Таре	Bi-Laminate (Alum+Poly)	100%	26 AWG (Solid) TC

Table Notes: Aluminum facing outside in contact with drain wire

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

			Max. Insertion Loss (Attenuation)						Min. PSACRF (PSELFEXT) [dB]			
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1	2.1 dB/100m	65.3	62.3	63.2	60.2	64	61	20	40	35
4	4 dB/100m	56.3	53.3	52.32	49.3	52	49	23	34	23
10	6.3 dB/100m	50.3	47.3	44	41	44	41	25	30	15
16	8 dB/100m	47.2	44.2	39.2	36.2	39.9	36.9	25	28	10.9
20	9 dB/100m	45.8	42.8	36.8	33.8	38	35	25	27	9
31.25	11.4 dB/100m	42.9	39.9	31.5	28.5	34.1	31.5	23.6	25.1	5.5
62.5	16.5 dB/100m	38.4	35.4	21.9	18.9	28.1	25.1	21.5	22	
100	21.3 dB/100m	35.3	32.3	14	11	24	21	20.1	20	
Table Notes:		Limits below 4 MHz are for information only. Reference standard: IEC 61156-5								

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°C to +60°C	0°C To +50°C		

Bend Radius

Stationary Min.	Installation Min.	
25 mm (0.98 in)	50 mm	

Max. Pull Tension:	72 N (16 lbf)
Bulk Cable Weight:	39 kg/km

Standards and Compliance

Environmental Suitability:	Outdoor, Outdoor - Black only, Sunlight Resistance - Black only			
CPR Compliance:	CPR Euroclass: Fca			
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 EU CE Mark			
European Directive Compliance:				
UK Regulation Compliance:	UKCA Mark			

Product Notes

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

History

Update and Revision:

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
1633PE.00500	Black	Reel	500 m	8719605003096

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