

# 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**

Suitable Applications:	Horizontal and building bac suitable for outdoor use	kbone cable; Support curre	ent and future Cat	egory 5e applications, s	such as: 1000Base-T (Gigab	it Ethernet), 100 Base	-T, 10 Base-T	, FDDI, ATM,
Construction Details								
onductor			_					
Element Size Stran		o. of Pairs No. of Elemen	ts					
ndividual Pair 24 AWG Solid	BC - Bare Copper 4	8						
sulation								
Element Material	Nom. Insulation Diamet	er	C	olor Code				
ndividual Pair PE - Polyethylen	e 1.05 mm (0.0413 in)	White/Blue & Blue, Whi	te/Green & Greer	, White/Orange & Orar	nge, White/Brown & Brown			
able Core								
Description								
pairs twisted together covered	with a polyester foil							
uter Shield								
Shield Type Material	Coverage Drain	wire Type						
ape Bi-Laminate (Alum	+Poly) 100% 26 AWC	G (Solid) TC						
able Notes:	Aluminum facing outside in	contact with drain wire						
uter Jacket								
Material Nom. Diame	ter							
PE - Polyethylene 6.3 mm (0.25	in)							
Overall Cable Diameter Nominal):	6.3 mm (0.25 in)							
lectrical Characteristic	s							
ectricals								
Max. Conductor DCR Max. Mu	itual Capacitance Max. Ca	pacitance Unbalance No	om. Characteristi	c Impedance				
95 Ohm/km 56 pF/m	(17 pF/ft) 160 pF/1	00m 10	0 Ohm					
elay								
Max. Delay Skew Nom. Veloci	ty of Prop.							
40 ns/100m 69%								
igh Frequency								
Frequency Max. Insertio		Ain. PSNEXT Min. ACR	Min. PSACR	Min. ACRF	Min. PSACRF	Min. RL (Return	Min. TCL	Min. ELTCTL
[MHz] (Attenua	tion) [dB]	[dB] [dB]	[dB]	(ELFEXT) [dB]	(PSELFEXT) [dB]	Loss) [dB]	[dB]	[dB]

1	2.1 dB/100m	65.3	3 6	62.3	63.2	60.2	64	61	20	40	35
4	4 dB/100m		3 5	53.3	52.32	49.3	52	49	23	34	23
10	6.3 dB/100m		3 4	47.3	44	41	44	41	25	30	15
16	8 dB/100m	47.2	2 4	44.2	39.2	36.2	39.9	36.9	25	28	10.9
20	9 dB/100m		8 4	42.8	36.8	33.8	38	35	25	27	9
31.25	11.4 dB/100m		9 3	39.9	31.5	28.5	34.1	31.5	23.6	25.1	5.5
62.5	16.5 dB/100m		4 3	35.4	21.9	18.9	28.1	25.1	21.5	22	
100	21.3 dB/100m		3 3	32.3	14	11	24	21	20.1	20	
Table Notes:		Limits below 4 I	MHz are for	r information only	/. Reference	standard: IEC 6	1156-5				

### Transfer Impedance

Frequency	Max.	Transfer Impe	dance
1 Mhz	Max.	50 mOhm/m	
10 Mhz	Max.	100 mOhm/m	
30 Mhz	Max.	200 mOhm/m	
100 Mhz	Max.	1000 mOhm/m	I
Transfer Im	pedan	ce Class:	Grade 2
Screening C	Class:		Type II
Table Notes	8:		Couplin

### 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 Tensior	n:
ulk Cable Weigh	ht:

# Standards and Compliance

Environmental Suitability:	Outdoor, 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				
European Directive Compliance:	EU CE 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:	Revision Number: 0.263 Revision Date: 09-06-2023					
Part Numbers						
Variants						

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

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