



Product: <u>7965PE</u> ☑

Category 6 Cable, 4 Pair, U/UTP, PE Indoor/Outdoor

Product Description

Category 6 Premise Horizontal Cable (250MHz), 4-Pair, 23 AWG solid bare copper conductors, U/UTP, Polyethylene insulation, Outdoor PE jacket, CPR Fca

Technical Specifications

Product Overview

Product Ov	erview										
Suitable Applications: Horizontal and building backbone cable; Support current and future Category 6 and 5e applications, such as: 1000Base - T (Gigabit Ethernet), 100 Base - T, 10 Base - T, FDDI, ATM, suitable for indoor/outdoor use											
Constructio	on Detai	ls									
Conductor											
Element	Size	Strandin	g Material	Numb	er of Pairs	Number of Element					
Individual Pair	23 AWG	Solid	BC - Bare Copper	4		8					
Insulation											
Element	Mate	rial	Nom. Insulation Dian	neter			Color Code				
Individual Pair	PE - Poly	ethylene	0.96 mm (0.038 in)		White/Blue &	& Blue, White/Green &	Green, White/Orange & Orange, White/Brown &	Brown			
Cable Core											
Descripti	on		Separator								
4 pairs twisted	together	Center Me	mber (Patented X-Splin	ne®)							

Outer Jacket

Material Nom. Diameter PE - Polyethylene 5.8 mm (0.23 in) Overall Cable Diameter (Nominal): 5.8 mm (0.23 in)	outor outoriot	
Overall Cable Diameter 5.8 mm (0.23 in)	Material Nom. Diam	heter
	PE - Polyethylene 5.8 mm (0.2	23 in)
	Overall Cable Diameter (Nominal):	5.8 mm (0.23 in)

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	70%

High Frequency

nuation) [dB]	[dB]	[dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Min. TCL [dB]	Min. ELTCTL [dB]
n 75.3	72.3	73.2	70.2	70	67	20	40	35
n 66.3	63.3	62.4	59.4	58	55	23	34	23
60.3	57.3	54.3	51.3	50	47	25	30	15
n 57.2	54.2	49.6	46.6	45.9	42.9	25	28	10.9
n 55.8	52.8	47.3	44.3	44	41	25	27	9
m 52.9	49.9	42.1	39.1	40.1	37.1	23.6	25.1	5.1
r r	n 75.3 n 66.3 60.3 n 57.2 n 55.8	n 75.3 72.3 n 66.3 63.3 60.3 57.3 n 57.2 54.2 n 55.8 52.8	n 75.3 72.3 73.2 n 66.3 63.3 62.4 60.3 57.3 54.3 n 57.2 54.2 49.6 n 55.8 52.8 47.3	n 75.3 72.3 73.2 70.2 n 66.3 63.3 62.4 59.4 60.3 57.3 54.3 51.3 n 57.2 54.2 49.6 46.6 n 55.8 52.8 47.3 44.3	n 75.3 72.3 73.2 70.2 70 n 66.3 63.3 62.4 59.4 58 60.3 57.3 54.3 51.3 50 n 57.2 54.2 49.6 46.6 45.9 n 55.8 52.8 47.3 44.3 44	n75.372.373.270.27067n66.363.362.459.4585560.357.354.351.35047n57.254.249.646.645.942.9n55.852.847.344.34441	n75.372.373.270.2706720n66.363.362.459.458552360.357.354.351.3504725n57.254.249.646.645.942.925n55.852.847.344.3444125	n75.372.373.270.270672040n66.363.362.459.45855233460.357.354.351.350472530n57.254.249.646.645.942.92528n55.852.847.344.344412527

62.5	15.5 dB/100m		48.4	45.4	32.9	29.9	34.1	31.1	21.5	22		
100	19.9 dB/100m		45.3	42.3	25.4	22.4	30	27	20.1	20		
155	55 25.3 dB/100m		42.4	39.4	17.1	14.1	26.2	23.2	18.8	18.1		
200	00 29.1 dB/100m		40.8	37.8	11.6	8.6	24	21	18	17		
250	33 dB/100m		39.3	36.3	6.3	3.3	22	19	17.3	16		
Table Notes:		Limits below 4 MHz are for information only. Reference standard: IEC 61156-5										
Screening Class:		Type III										
Table Notes:		Coupling Att	Coupling Attenuation									

Voltage

Voltage Rating

72 V DC

Mechanical Characteristics

-	Temperature
[Operating Installation
	-30°C to +60°C 0°C To +50°C
I	Send Radius
[Stationary Min. Installation Min.

23 mm (0.91 in) 46 mm	
Max. Pull Tension:	80 N (18 lbf)
Bulk Cable Weight:	37 kg/km

Standards and Compliance

Environmental Suitability:	Indoor/Outdoor			
CPR Compliance:	CPR Euroclass: Fca			
IEEE Compliance: PoE: IEEE 802.3bt Type 1, Type 2, Type 3, Type 4				
Data Category:	Category 6			
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 = a			
European Directive Compliance:	EU CE Mark			

Product Notes

Notes:	Electric

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

History

Update and Revision: Revision Number: 0.253 Revision Date: 04-12-2022

Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
7965PE.00100	Black	Reel	100 m	8719605017413
7965PE.00A305	Black	Reel-in-Box	305 m	8719605111920
7965PE.00500	Black	Reel	500 m	8719605017437
7965PE.001000	Black	Reel	1,000 m	8719605017420

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