

# **Product:** <u>7965E</u> ⊠ Category 6 Cable, 4 Pair, U/UTP, PVC Indoor CPR Eca

## **Product Description**

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

## **Technical Specifications**

### Product Overview

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 FDDI, ATM
onstruction Details	
onductor	
Element     Size     Strandir       Individual Pair     23 AWG     Solid	IngMaterialNo. of PairsNo. of ElementsBC - Bare Copper48
nsulation	
Element Material	Nom. Insulation Diameter Color Code
ndividual Pair PE - Polyethylene	0.96 mm (0.038 in) White/Blue & Blue, White/Green & Green, White/Orange & Orange, White/Brown & Brown
Description       4 pairs twisted together     Center Me	Separator lember (Patented X-Spline®)
Outer Jacket	
Material Nom. Di	Diameter
PVC - Polyvinyl Chloride 5.4 mm (	(0.21 in)
Overall Cable Diameter (Nominal):	: 5.4 mm (0.21 in)
Electrical Characteristics	3
lectricals	

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**

Frequency [MHz]	Max. Insertion Loss (Attenuation)	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Min. TCL [dB]	Min. ELTCTL [dB]
1	2.1 dB/100m	75.3	72.3	73.2	70.2	70	67	20	40	35
4	3.8 dB/100m	66.3	63.3	62.4	59.4	58	55	23	34	23
10	6 dB/100m	60.3	57.3	54.3	51.3	50	47	25	30	15
16	7.6 dB/100m	57.2	54.2	49.6	46.6	45.9	42.9	25	28	10.9
20	8.5 dB/100m	55.8	52.8	47.3	44.3	44	41	25	27	9
31.2	10.7 dB/100m	52.9	49.9	42.1	39.1	40.1	37.1	23.6	25.1	5.1

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	25.3 dB/100m		42.4	39.4	17.1	14.1	26.2	23.2	18.8	18.1
200	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:	Table Notes:     Limits below 4 MHz are for information only. Reference standard: IEC 61156-5									
Screening Clas	ss:	Type III								
Table Notes: Coupling Attenuation										

#### Voltage

Voltage Rating

72 V DC

## **Mechanical Characteristics**

Stationary Min.	Installation Min.	
23 mm (0.91 in)	46 mm	1
Max. Pull Tensio	on:	8
Bulk Cable Weig	ght:	37 kg/ki

## **Standards and Compliance**

Environmental Suitability:	Indoor - Euroclass Eca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Eca; CPR UKCA Class: Eca
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
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:

Revision Number: 0.392 Revision Date: 12-12-2023

## **Part Numbers**

## Variants

Item #	Color	Putup Type	Length	EAN
7965E.05A305	Black	Reel-in-Box	305 m	8719605016997
7965E.05500	Black	Reel	500 m	8719605160706
7965E.01B100	Blue	Flat Box	100 m	8719605016942
7965E.01200	Blue	Reel	200 m	8719605016904
7965E.01305	Blue	Reel	305 m	8719605016911
7965E.01A305	Blue	Reel-in-Box	305 m	8719605016935
7965E.01500	Blue	Reel	500 m	8719605016928
7965E.011000	Blue	Reel	1,000 m	8719605016898
7965E.00B100	Gray, RAL 7032	Flat Box	100 m	8719605016881
7965E.00305	Gray, RAL 7032	Reel	305 m	8719605016850
7965E.00A305	Gray, RAL 7032	Reel-in-Box	305 m	8719605016874
7965E.00500	Gray, RAL 7032	Reel	500 m	8719605016867
7965E.001000	Gray, RAL 7032	Reel	1,000 m	8719605016836
7965E.03305	Green	Reel	305 m	8719605016966

7965E.03500	Green	Reel	500 m	8719605016973
7965E.06305	White	Reel	305 m	8719605221612

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