



Product: <u>7965ELW</u> ☑

Category 6 Cable, 4 Pair, U/UTP, LSZH Indoor CPR Cca

# **Product Description**

Category 6 Premise Horizontal Cable (250MHz), 4-Pair, 23 AWG Solid Bare Copper Conductors, U/UTP, Polyethylene Insulation, LSZH Jacket CPR Cca

# **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 - T,
Suitable Applications.	FDDI, ATM

# **Construction Details**

## Conductor

Size	Stranding	Material	No. of Pairs	No. of Elements
23 AWG	Solid	BC - Bare Copper	4	8

#### Insulation

Material	Nom. Insulation Diameter	Color Code
PE - Polyethylene	1 mm (0.039 in)	White/Blue & Blue, White/Orange & Orange, White/Green & Green, White/Brown & Brown

# Cable Core

Description
4 pairs twisted together

# Outer Jacket

Material	Nom. Diame
LSZH - Low Smoke Zero Halogen (F	lame Retardant) 6.6 mm (0.26
Overall Cable Diameter (Nominal):	6.6 mm (0.26 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**

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	70.0	67.0	20	40	35
4	3.8 dB/100m	66.3	63.3	62.4	59.4	58.0	55.0	23	34	23
10	6.0 dB/100m	60.3	57.3	54.3	51.3	50.0	47.0	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	44.0	41.0	25	27	9
31.2	10.7 dB/100m	52.9	49.9	42.1	39.1	40.1	37.1	23.6	25	5.1

Table Notes:		Limits below 4MHz	are for informa	tion only.						
250	33.0 dB/100m	39.3	36.3	6.3	3.3	22.0	19.0	17.3	16	
200	29.1 dB/100m	40.8	37.8	11.6	8.6	24.0	21.0	18.0	17	
155	25.3 dB/100m	42.4	39.4	17.1	14.1	26.2	23.2	18.8	18.1	
100	19.9 dB/100m	45.3	42.3	25.4	22.4	30.0	27.0	20.1	20	
62.5	15.5 dB/100m	48.4	45.4	32.9	29.9	34.1	31.1	21.5	22	

# Voltage

Voltage Rating 72 V DC

Screening Class:

## **Mechanical Characteristics**

Type III

#### Temperature

	Operating	Installation
ľ	-30°C to +60°C	0°C To +50°C

#### **Bend Radius**

## **Standards and Compliance**

Environmental Suitability:	Indoor - Euroclass Cca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Cca-s1a,d1,a1; CPR UKCA Class: Cca-s1a,d1,a1
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, IEC 61034-2 - Smoke Density Min Transmittance = 80%
CENELEC Compliance:	EN 50173-1, Segregation class according EN50174-2 = a
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes
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: 0.90 Revision Date: 03-08-2023

# **Part Numbers**

#### Variants

	Item #	Color	Putup Type	Length	EAN
ľ	7965ELW.00305	Blue	Reel	305 m	8719605185235
Ī	7965ELW.00500	Blue	Reel	500 m	8719605175359
Ī	7965ELW.01305	Gray, RAL 7032	Reel	305 m	8719605185242
ľ	7965ELW.01500	Gray, RAL 7032	Reel	500 m	8719605185259

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