



Product: [7965GLY](#)

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

Product Description
Category 6 Premise Horizontal Cable (250MHz), 4-Pair, 24 AWG solid Bare copper conductors, U/UTP, Polyethylene insulation, LSZH jacket CPR Dca

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, FDDI, ATM
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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	0.90 mm (0.035 in)	White/Blue & Blue, White/Green & Green, White/Orange & Orange, White/Brown & Brown

Cable Core

Description	Separator
4 pairs twisted together	Center Member (Patented X-Spline®)

Outer Jacket

Material	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	5.3 mm (0.21 in)

Overall Cable Diameter (Nominal):	5.3 mm (0.21 in)
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Electrical Characteristics

Electricals

Max. Conductor DCR	Max. Mutual Capacitance	Max. Capacitance Unbalance	Nom. Characteristic Impedance
95 Ohm/km (29 Ohm/1000ft)	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) [dB/100m]	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	75.3	72.3	73.2	70.2	70	67	20	40	35
4	3.8	66.3	63.3	62.4	59.4	58	55	23	34	23
10	6	60.3	57.3	54.3	51.3	50	47	25	30	15
16	7.6	57.2	54.2	49.6	46.6	45.9	42.9	25	28	10.9
20	8.5	55.8	52.8	47.3	44.3	44	41	25	27	9
31.2	10.7	52.9	49.9	42.1	39.1	40.1	37.1	23.6	25.1	5.1

62.5	15.5	48.4	54.4	32.9	29.9	34.1	31.1	21.5	22	
100	19.9	45.3	42.3	25.4	22.4	30	27	20.1	20	
155	25.3	42.4	39.4	17.1	14.1	26.2	23.2	18.8	18.1	
200	29.1	40.8	37.8	11.6	8.6	24	21	18	17	
250	33	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 Attenuation								

Voltage

Voltage Rating
72 V DC

Mechanical Characteristics

Temperature

Operating
-30°C To +60°C

Bend Radius

Stationary Min.	Installation Min.
23 mm (0.91 in)	46 mm (1.8 in)

Max. Pull Tension:	80 N (18 lbf)
Bulk Cable Weight:	32 kg/km (22 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Dca
Flammability / Reaction to Fire:	IEC 60332-1-2
CPR Compliance:	CPR Euroclass: Dca-s2,d2,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 = 60%
CENELEC Compliance:	EN 50173-1, Segregation class according EN50174-2 = a
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3
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.
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History

Update and Revision:	Revision Number: 0.18 Revision Date: 04-29-2024
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Part Numbers

Variants

Item #	Color	Putup Type	Length	EAN
7965GLY.00500	Blue	Reel	500 m	8719605198518

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