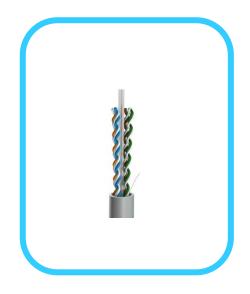


# Category 6 U/UTP PVC and LSZH Communications Cable



## **Product Type:**

Data Cable

#### **Application:**

Concordia Category 6 U/UTP cables are designed to support horizontal networking applications over channel distances up to 100 metres. The cable meets the specified performance for Category 6 U/UTP and supports all CLASS E applications as defined within ISO/IEC 11801 2<sup>nd</sup> Edition.

## Standards:

- ISO/IEC 11801 2<sup>nd</sup> Edition
- TIA/EIA 568-C.2
- EN 50173, EN 50288-3-1
- IEC 61156-5, IEC60332-1-2
- For LSZH cables: IEC61034, IEC60754-2

## **Construction:**

Conductor:	Solid plain annealed copper
Insulation:	Polyethylene
Cable:	8 insulated wires formed into 4 pairs. The 4 pairs are subsequently cabled together around a polyethylene cross filler to form a cohesive unit.
Sheath:	PVC , Grey LSZH : Violet
Diameter:	5.8mm

Datasheet Ref: Concord Cat6 U-UTP Issue: 1 Page 1 of 3

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# Electrical properties at 20°C

Characteristic Impedance (1-100MHz)	100 ± 15Ω	
DC loop resistance	≤ 19Ω/100m	
Resistance unbalance	≤ 2%	
Capacitance unbalance to earth	≤ 1600 pF/km	
Nominal velocity of propagation	67%	
Delay skew	≤ 45ns/100m	
Propagation delay (Nominal)	≤ 552ns/100m	
Test voltage (d.c. for 1 minute)	1000V	
Conductor/Conductor		
Insulation resistance (500V d.c)	≥ 500MΩ.km	
Coupling attenuation	≥ 40dB	

## Transmission line performance at 20°C

Frequency MHz	Attenuation dB/100m	NEXT dB	ACR dB/100m	PSNEXT dB	ELFEXT dB/100m	PSELFEXT dB/100m	Return Loss
1	2.1	74.3	72.2	72.3	68	65	20.0
4	3.8	65.3	61.5	63.3	56	53	23.0
10	6.0	59.3	53.3	57.3	48	45	25.0
16	7.6	56.2	48.6	54.2	44	41	25.0
20	8.5	54.8	46.3	52.8	42	39	25.0
62.5	15.5	47.4	31.9	45.4	32	29	21.5
100	19.9	44.3	24.4	42.3	28	25	20.1
155.5	25.3	41.4	16.1	39.4	24	21	18.8
250	33.0	38.3	5.3	36.3	20	17	17.3

## **Mechanical Characteristics:**

Temperature Range:		
	Operation	-20°C to + 60°C
	Installation	0°C to +50°C
	Storage	-20°C to + 70°C
Minimum bend radii:		
	Installation	8 x Cable Diameter
	Installed	4 x Cable Diameter
Maximum tensile force:		
	During Installation	100N

Datasheet Ref: Concord Cat6 U-UTP

Issue: 1

Page 2 of 3

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## **Fire Performance:**

Category 6 U/UTP PVC cables exceed the requirements of:

• IEC 60332-1-2

Category 6 U/UTP LSZH cables exceed the requirements of:

- IEC 60332-1-2
- IEC61034
- IEC60754-2

## **Other Relevant Information:**

Pair colour code:

Pair 1: Orange and White/Orange
Pair 2: Blue and White/Blue
Pair 3: Brown and White/Brown
Pair 4: Green and White/Green

## Packaging:

Part No.	Description	Packaging
CAT6ULCAVI305	Concord Cat6 U/UTP LSZH Violet	305m reel
CAT6UPCAGY305	Concord Cat6 U/UTP PVC Grey	305m reel

Datasheet Ref: Concord Cat6 U-UTP Issue: 1 Page 3 of 3

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