

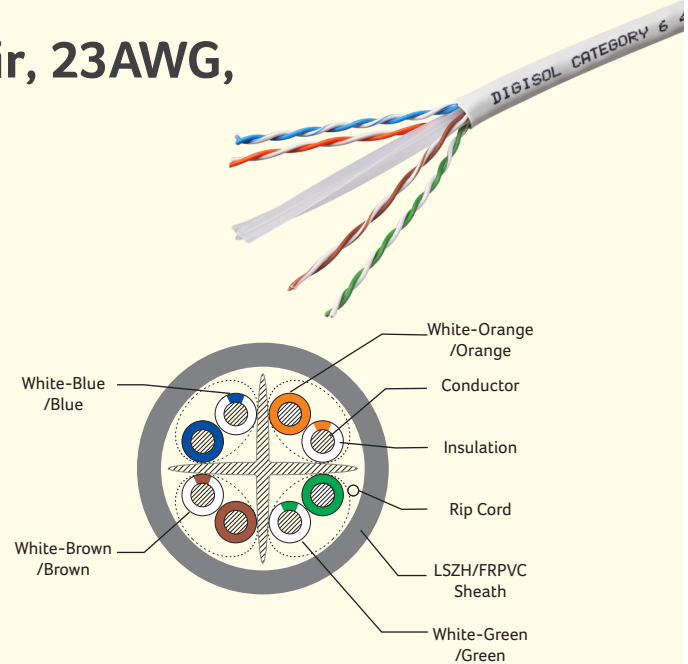


# STRUCTURED CABLING SYSTEMS

## DIGISOL Solid Cable, Cat6 UTP, 4 Pair, 23AWG, Grey, 305m

### Introduction:-

DIGISOL Cat6 4 Pair UTP Cable has been designed for Horizontal Cabling Networks for Transmission of High Speed Data, Digital and Analog, Voice and Video Signals over LANs. Supports Gigabit Ethernet (1000 Base-T) Standard Suitable for Noisy Environments, High EMI Inteferece Surroundings and Complies to The Requirement of ANSI/TIA-568-C.2 and ISO/IEC 11801. Performance Verified Up to 600mhz. UL Listed and ETL Verified.



### Technical Specifications:-

#### Mechanical Properties:-

- Conductor : 23AWG Solid Bare Cable
- CENTRAL ELEMENT : PE Cross Separator
- Insulation : High Density Polyethylene Solid
- Pairs : 4 Pairs Twisted Together
- Cable Diameter : 5.9+/-0.01MM
- Rip cord : Yes
- JACKET : FRPVC/LSZH sheath
- JACKET Color : Light Grey
- Bending Radius : < 4X Cable Diameter at -20°C +/- 1°C
- Pulling Force : 25.35 LBS
- Operating Temperature Range : (-20°C to +70°C)
- Installation Temperature Range : (-20°C to +70°C)

#### Electrical Properties:-

- Conductor Resistance (For 100M) : 9.38OHM
- Mutual Capacitance (For 100M) : 5.6NF
- Resistance Unbalance (%) : Max 5
- Capacitance Unbalance (For 100M) : 330PF
- Delay Skew (For 100M) : 45NS
- Propagation Delay Skew (For 100M) : 536BS
- Current Rating : MAX 1.5A
- Operating Voltage : 72V
- Dielectric strength : 1000 V RMS

#### Color Code:-

- Pair Number : Color
- 1 - 2 : White-Orange Stripe and Orange
- 3 - 6 : White-Green Stripe and Green
- 4 - 5 : White-Blue Stripe and Blue
- 7 - 8 : White-Brown Stripe and Brown

Flame Rating : CM Rated

Packing : Easy Pull Boxes/Reels of 305m Length

Standards : UL Listed  
ETL Verified to ANSI/TIA-568-C.2  
ISO/IEC 11801



**DIGISOL™**

**CAT6**

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### Electrical Performance Parameters:-

Frequency MHz	Insertion Loss (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)	ACR (dB)	PSACR
1	2.0	20.0	74.3	72.3	67.8	64.8	72.3	70.3
4	3.8	23.0	65.3	63.3	55.8	52.8	61.5	59.5
8	5.3	24.5	60.8	58.8	49.7	46.7	55.5	53.5
10	6.0	25.0	59.3	57.3	47.8	44.8	53.3	51.3
16	7.6	25.0	56.2	54.2	43.7	40.7	48.6	46.6
20	8.5	25.0	54.8	52.8	41.8	38.8	46.3	44.3
25	9.5	24.3	53.3	51.3	39.8	36.8	43.8	41.8
31.25	10.7	23.6	51.9	49.9	37.9	34.9	41.2	39.2
62.5	15.4	21.5	47.4	45.4	31.9	28.9	32.0	30.0
100	19.8	20.1	44.3	42.3	27.8	24.8	24.5	22.5
200	29.0	18.0	39.8	37.8	21.8	18.8	10.8	8.8
250	32.8	17.3	38.3	36.3	19.8	16.8	5.5	3.5
400	43.0	15.9	35.3	33.3	15.8	12.8	5.0	3.2
500	48.9	15.2	33.8	31.8	13.8	10.8	4.5	2.8
600	54.5	14.7	32.6	30.6	12.2	9.2	3.5	2.1



### Ordering Information:-

DGC-SC6U4F-3GB	DIGISOL Solid Cable, Cat6 UTP, 4 Pair, 23AWG, FRPVC CM, Grey, 305m
DGC-SC6U4F-3GC	DIGISOL Solid Cable, Cat6 UTP, 4 Pair, 23AWG, FRPVC CM, Grey, 305m
DGC-SC6U4L-3GB	DIGISOL Solid Cable, Cat6 UTP, 4 Pair, 23AWG, LSZH, Grey, 305m
DGC-SC6U4L-3BC	DIGISOL Solid Cable, Cat6 UTP, 4 Pair, 23AWG, LSZH, CM, Blue, 305m

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