



## 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 interference surroundings and complies to the requirement of ANSI/TIA-568.2-D and ISO/IEC 11801. Performance verified upto 600MHz. UL Listed and ETL Verified.

#### Key Features:-

- Better cable material properties and design
- Performance verified upto 600 MHz
- Available in FRPVC jacket sheath
- Packaged in an easy-to-pull reel in box for easier installation (305m length)

#### Technical Specifications:-

##### Construction Properties:-

Conductor	: 23 AWG, Solid bare copper
Pairs	: 4 Pair twisted wires
Type	: U/UTP CM rated
Insulation Material	: High density polyethylene (HDPE)
Insulation Nominal Thickness	: 0.2 mm
Jacket Sheath	: FRPVC
Jacket Diameter	: 6.0 ± 0.4 mm
Rip Cord	: 1 no
Jacket Colour	: Grey

##### Mechanical Properties:-

Pulling Force	: 11.5 Kg (25.35 lbs)
Bending radius	: <4 x Cable Diameter at -20°C ± 1°C

##### 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

##### Electrical Properties:-

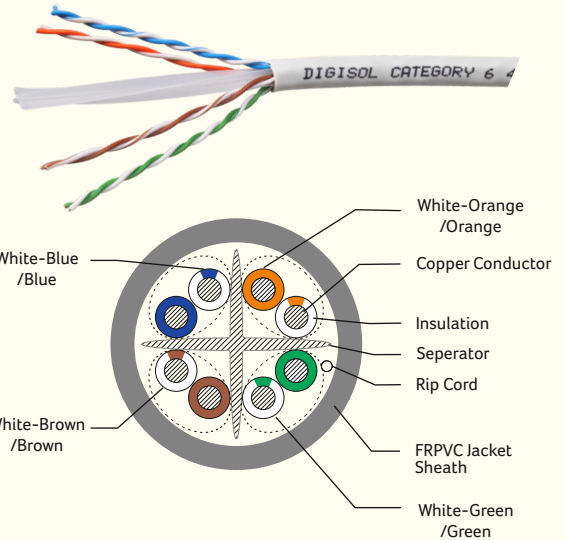
Conductor Resistance	: ≤ 9.38 Ω/100m Max.
Mutual Capacitance	: < 5.6 nF/100m Max
Resistance Unbalance	: 5% Max
Capacitance Unbalance	: Max. 330 pF/100m
Dielectric Strength	: 1.0 KVDC for 2 seconds
Delay Skew	: < 45ns
NVP (%)	: 69%
Impedance	: 100 ± 15 Ω @ 100 MHz
Operating Voltage	: 72 V

##### Environmental Properties:-

Operating Temperature	: -20°C to +70°C
Installation Temperature	: -20°C to +70°C

##### Standards:-

- UL Listed
- ETL Verified to ANSI/TIA-568-D.2
- ISO/IEC 11801/IEC 60332-1
- RoHS Compliant



#### Transmission Performance Parameters Per 100 Meter @20°C

Frequency MHz	Insertion Loss (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ACRF (ELFEXT) (dB)	PSACRF (PSELFEXT) (dB)	ACR (dB)	PSACR (dB)
250	32.8	17.3	38.3	36.3	19.8	16.8	5.5	3.5
500	46.0	15.0	32.8	31.2	13.0	10.4	4.2	2.6
600	51.0	14.3	31.0	29.5	11.0	8.3	3.3	1.8

#### Ordering Information:-

Part Codes	Description
DGC-SC6U4F-3GB	DIGISOL Solid Cable, Cat6 UTP, 4 Pair, 23AWG, FRPVC CM, Grey, 305m