



## 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-C.2 and ISO/IEC 11801. Performance verified upto 250MHz. UL Listed and ETL Verified.

#### Key Features:-

- Better cable material properties and design
- Performance verified upto 250 MHz.
- Available in FRPVC jacket sheath
- Packaged in an easy-to-pull 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 Diameter : 0.89 ± 0.01 mm  
 Insulation Nominal Thickness : 0.2 mm  
 Central Member : PE cross separator

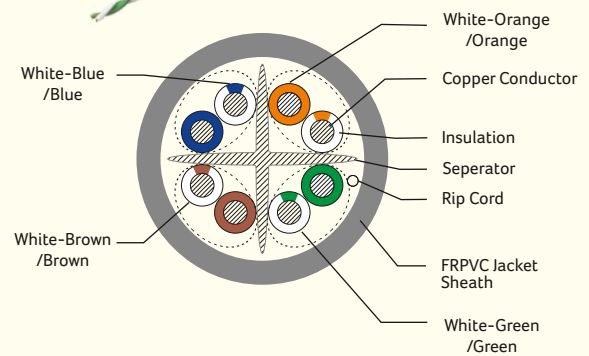
Separator Dimension/Thickness : 4.3 mm/ 0.4 mm  
 Separator Material : Polyolefin / Polyethylene  
 Jacket Sheath : FRPVC  
 Jacket Average Thickness : 0.5 ± 0.01 mm  
 Jacket Diameter : 5.6 ± 0.2 mm  
 Rip Cord : 1 no  
 Jacket Colour : Grey

##### Mechanical Properties:-

Maximum Tensile Strength of Jacket (N/mm<sup>2</sup>) : 13.1  
 Pulling Force : 11.5 Kg (25.35 lbs)  
 Bending radius : <4 x Cable Diameter at -20°C ± 1°C

##### Environmental Properties:-

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



##### 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 : 2.5 KVDC for 2 seconds  
 Delay Skew : < 45ns  
 Impedance : 100 ± 15 Ω @ 100 MHz  
 Current Rating : 1.5 A Max.  
 Operating Voltage : 72 V

##### 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

##### Standards:-

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

#### Transmission Performance Parameters:- @ 250 MHz

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

#### Ordering Information:-

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