

сат**6**

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 wire

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 seperator

11 E 61000 Seperator

Seperator Dimension/Thickness : 4.3 mm/ 0.4 mm
Seperator Material : Polyolefin / Polyethylene

Jacket Sheath: FRPVCJacket Average Thickness: 0.5 ± 0.01 mmJacket Diameter: 5.6 ± 0.2 mm

Rip Cord : 1 no Jacket Colour : Grey

Mechanical Properties:-

Maximum Tensile Strength : 13.1

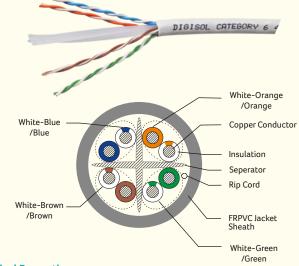
of Jacket (N/mm²)

Pulling Force : 11.5 Kg (25.35 lbs)

Bending radius : $<4 \text{ x Cable Diameter at } -20^{\circ}\text{C} \pm 1^{\circ}\text{C}$

Environmental Properties:-

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



Electrical Properties:-

Conductor Resistance : \leq 9.38 Ω /100m Max. Mutual Capacitance : \leq 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 : $100 \pm 15 \Omega$ @ 100 MHz Current Rating : 1.5 A Max.

Current Rating : 1.5 A Max Operating Voltage : 72 V

Color Code:-

Pair Number : Color

1 - 2
3 - 6
4 - 5
7 - 8
White-Green Stripe and Green
White-Blue Stripe and Blue
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

