

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)
- Sequential meter marking done in the cable

Technical Specifications:-

Construction Properties:-

Conductor	: 23 AWG, Solid bare copper
Pairs	: 4 Pair twisted wires
Type	: U/UTP CM/CMR 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	: 5.8 ± 0.2 mm
Rip Cord	: 1 no
Jacket Colour	: Grey

Mechanical Properties:-

Maximum Tensile Strength of Jacket (N/mm ²)	: 13.1
Pulling Force	: 11.5 Kg (25.35 lbs)
Bending radius	: $<4 \times$ Cable Diameter at $-20^{\circ}\text{C} \pm 1^{\circ}\text{C}$

Environmental Properties:-

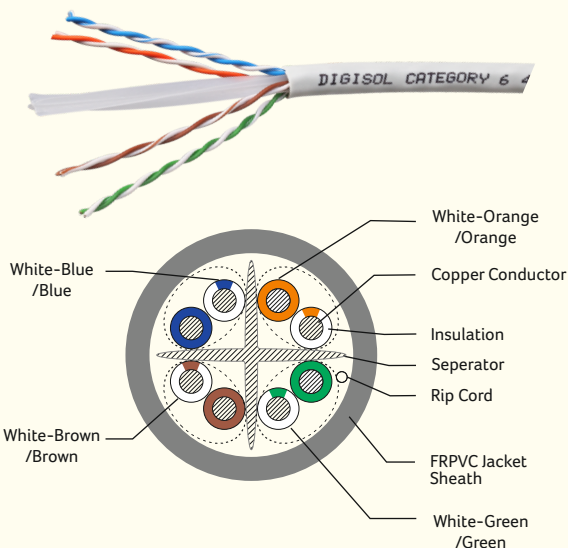
Operating Temperature	: 0°C to $+50^{\circ}\text{C}$
Installation Temperature	: -20°C to $+70^{\circ}\text{C}$

Transmission Performance Parameters Per 100m:-

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



Electrical Properties:-

Conductor Resistance	: $\leq 9.38 \Omega/100\text{m}$ Max.
Mutual Capacitance	: $< 5.6 \text{ nF}/100\text{m}$ Max
Resistance Unbalance	: 5% Max
Capacitance Unbalance	: Max. 330 pF/100m
Dielectric Strength	: 2.5 KVDC for 2 seconds
Delay Skew	: $< 45\text{ns}$
Impedance	: $100 \pm 15 \Omega$ @ 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-568.2-D
ISO/IEC 11801
IEC 60332-1 Compliant
RoHS Compliant