

**DIGISOL™****CAT6A**

STRUCTURED CABLING SYSTEMS

DIGISOL Solid Cable, Cat6A UTP, 4 Pair, 23AWG, Grey, 305m



Introduction:-

DIGISOL Cat6A 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 (10G 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 500MHz.

Key Features:-

- Better cable material properties and design
- Performance verified upto 500 MHz.
- Available in FRPVC jacket sheath
- Packaged in a wooden reel for easier installation (305m length)

Technical Specifications:-

Construction Properties:-

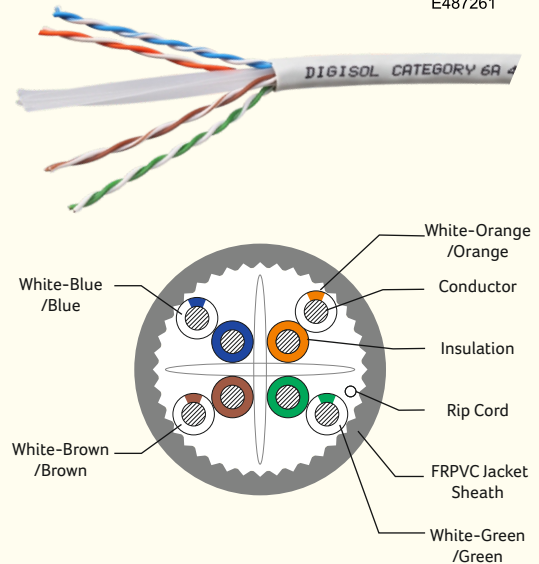
Conductor	: 23 AWG, Solid bare copper
Pairs	: 4 Pair twisted wires
Type	: U/UTP CM rated
Conductor Diameter	: 0.55 ± 0.02 mm
Insulation Material	: High density polyethylene
Insulation Diameter	(HDPE) : 1.02 ± 0.01 mm
Insulation Nominal Thickness	: 0.24 mm
Central Member	: PE cross separator
Separator Dimension/Thickness	: 4.3 mm/ 0.4 mm
Separator Material	: Polyolefin / Polyethylene
Jacket Sheath	: FRPVC
Jacket Average Thickness	: 0.91 ± 0.01 mm
Jacket Diameter	: 7.5 ± 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	: -20°C to $+70^{\circ}\text{C}$
Installation Temperature	: -20°C to $+70^{\circ}\text{C}$



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	: $< 45\text{ns}/100\text{m}$
Propagation Delay @250 MHZ	: 536ns/100m
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
Comply to ANSI/TIA-568.2-D
ISO/IEC 11801/IEC 60332-1
RoHS Compliant

Transmission Performance Parameters:- @ 500 MHz

Frequency MHZ	Insertion Loss (dB/100m)	NEXT (dB/100m)	PSNEXT (dB/100m)	ACRF (dB/100m)	PSACRF (dB/100m)	Return Loss (dB/100m)
500	45.3	33.8	31.8	13.8	10.8	15.2

Ordering Information:-

Part Codes	Description
DGC-SCAU4F-3GW	DIGISOL Solid Cable, Cat6A UTP, 4 Pair, 23AWG, FRPVC CM, Grey, 305m

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