



# STRUCTURED CABLING SYSTEMS

## DIGISOL Cat6 UTP, Armoured Outdoor Cable (ECCS Tape Armouring)

### Introduction:-

Cat 6 UTP armoured Cable Consists of PE Insulated 23AWG Solid Bare Annealed Copper Conductors, twisted 4pair stranded over Cross PE Separator filler, Inner sheath, ECCS Tape Armour and Outer black Polyethylene Sheath.

### Key Features:-

- Meets Transmission requirements of TIA/EIA 568 C.2 & ISO/IEC 11801
- Performance specification up to 250 Mhz
- UV resistance outer sheath
- Inner Sheath Flame Retardant (IEC60332-1)
- Suitable for Outdoor application
- Rugged Double sheath construction
- RoHS Compliant
- ECCS Tape armouring provides Excellent Mechanical protection

### Application:-

These are structured cables suitable for Ethernet Applications and compatible with all known connection Systems. Ideal for high performance workstation applications including voice/data systems, Digital video, Broadband and Voice over internet protocol etc.

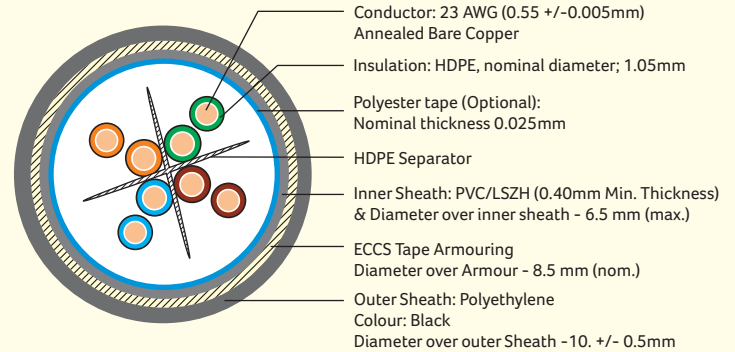
### Technical Specifications:-

#### Electrical Properties:-

Conductor Resistance @20°C	: Max. 93.8 Ω/KM
Conductor Resistance	: Max. 5 %
Unbalance	
Mutual Capacitance @1KHZ	: Max. 56 nF/KM
Insulation Resistance	: Min. 5000 MΩ.km
High Voltage	: 2.5KV DC/1 min
Capacitance Earth	: Max. 3300 pF/km
Unbalance	
Propagation Delay @ 1 MHz, 10 MHz, 100 MHz & 250 MHz	: Max. 570, 545, 538 & 536 ns/100 m
Propagation Delay Skew 1-250 MHz	: Max. 45 ns/100 m
Characteristic Impedance (1-100MHz)	: 100 ± 15Ω

#### Color Code:-

Pair Number	: Color
Pair 1	: White-Blue / Blue
Pair 2	: White-Orange / Orange
Pair 3	: White-Green / Green
Pair 4	: White-Brown / Brown



### Standard:-

As per ANSI/TIA 568-C.2 & ISO /IEC 11801 2nd Edition

#### Cable Marking:-

Marking Medium	: Ink Jet Printing in contrasting Colour
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#### Mechanical Properties:-

Bending Radius	: 12 x Diameter (min.)
Pulling Force	: 11.5 kgs (max.)

#### Terminal Properties:-

Temperature Range	: -40°C up to +70°C
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#### Standard Length & Packing:-

Cable Diameter	: 10.0 ± 0.5 mm
Standard Length	: 305/500 mtrs as per customer request
Available Packaging	: Spool



DIGISOL™

CAT6

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### Electrical Performance Parameters:-

Frequency MHz	Attenuation (dB/100m)	Next (dB)	PS Next (dB)	ACRF (ELFEXT) (dB)	PS ACRF (PSELFEXT) (dB)	Return Loss (db)	TCL (db)	EL TCL (db)
	Max.	Min.	Min.	Min.	Min.	Min.	Min.	Min.
1.0	2.1	74.3	72.3	67.8	64.8	20.0	40	35.0
4.0	3.8	65.3	63.3	55.8	52.8	23.0	40	23.0
8.0	5.3	60.8	58.8	49.7	46.7	24.5	40	16.9
10.0	6.0	59.3	57.3	47.8	44.8	25.0	40	15.0
16.0	7.6	56.2	54.2	43.7	40.7	25.0	38	10.9
20.0	8.5	54.8	52.8	41.8	38.8	25.0	37	9.0
25.0	9.5	53.3	51.3	39.8	36.8	24.3	36	7.0
31.25	10.7	51.9	49.9	37.9	34.9	23.6	35.1	5.5 @30MHz
62.5	15.4	47.4	45.4	31.9	28.9	21.5	32.0	
100	19.8	44.3	42.3	27.8	24.8	20.1	30.0	
200	29.0	39.8	37.8	21.8	18.8	18.0	27.0	
250	32.8	38.3	36.3	19.8	16.8	17.3	26.0	



### Ordering Information:-

Product Code	Description
DGC-SC6A4F-3GW	DIGISOL Solid Cable, Cat6 Armoured (ECCS Tape armouring), 4 Pair, 23AWG, Black, 500m

DIGISOL SYSTEMS LIMITED  
 Smartlink House,  
 Plot No. 5, Bandra-Kurla  
 Complex, Santacruz (East),  
 Mumbai - 400 098.

1800-209-3444  
[www.digisol.com](http://www.digisol.com)  
[helpdesk@digisol.com](mailto:helpdesk@digisol.com)