

# CP-EST-6TGR-305

## Cat6 SFTP Cable

- Exceed ISO/IEC 11801, IEC 61156-5, ANSI/TIA /EIA- 568-C.2 Class E Standards backward compatible to Cat5e Applications
- Can be used for Outdoor Installation
- 4 Pair Separator Design
- 23 AWG cable
- Dual shielding of foil and overall braid



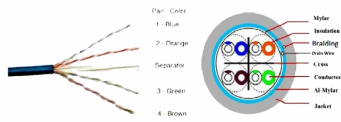
### System Overview

For a speedy and easy transmission of data, digital and analog voice and video (RGB) signals on LANs, CP PLUS offers efficiently performing cables that provide an enhanced experience. Designed for applications that are installed in occasional flexing and fixed locations. This cable has been created to strengthen the transmission power of data in your surveillance solution.

### Functions

#### Weather Care

The outer jacket in this cable is made of the most robust PVC to provide a supplemented life potential to the cable and also to safeguard it against the calamities of weather.



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### Functions

#### Solid Bare Copper Conductor

The use of a bare copper conductor in energy transmission installations to maximize thermal and electrical conductivity, and to transmit energy with optimal efficiency.

#### Increased Protection

The superior quality of the insulator used in this cable provides greater prevention against the electromagnetic force emitting from the current.

#### Aluminum-Mylar Tape

The AL/PET Tape (Aluminum-Mylar Tape) is used for cable shielding as a shielding insulator when assembling electronic components. AL/PET Tapes provide more protection by increasing the metallic coverage without adding increased thickness to the diameter of the cable.

#### Renewed Capacity

The current carrying capacity of a cable is directly proportionate to its diameter. Keeping that in mind, this cable has been designed to carry a bigger amount of voltage.

#### Heavily Braided with HDPE Insulation

HDPE, or high-density polyethylene, is an excellent material as a direct replacement for distribution insulators of all types. HDPE is much lighter than its porcelain counterparts and almost impervious to the cracking so common to porcelain.

### About CP PLUS

The brand that is on its way to lead the world when it comes to the security and surveillance industry, CP PLUS, keeps bombarding the market with the most reliable range of products that have been designed carefully and methodically to automate the whole surveillance and security process, no matter how big your premises are.

It was the initiative to help the public in the area where they are the most vulnerable and to empower the sense of safety in our hearts that had conceptualized CP PLUS. And embarking on its mission to make the world a safer and more secure place has taken the brand's journey to unprecedented levels even when compared to international competitors.



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| Feature                    | Specification                          |
|----------------------------|--|
| Conduct Type               | Solid Bare Electrolytic Grade Copper   |
| Nominal Conductor Diameter | 23 AWG                                 |
| Insulation                 | Polyethylene (HDPE)                    |
| No. of Pair                | 4, Each pair Twisted                   |
| Pairing                    | Twisted into Two core                  |
| Outer Sheath Material      | PVC                                    |
| Shielded                   | Polyester/A-Mylar Tape, Alloy Braiding |
| Approximate OD             | 6.80mm                                 |
| Foil Shielding             | Aluminium Foil                         |
| Cross Filler               | HDPE                                   |
| Drain Wire                 | Annealed tinned Copper                 |
| Resistance Unbalance       | 5% Max                                 |
| Conductor Resistance       | 93.5Ω/1000 Mtr@20°C Max                |
| Mutual Capacitance         | 5.6nf/100Mtr. Max                      |
| Packing                    | 305 Mtrs                               |
| Temperature Rating         | -20 to +60°C                           |
| Installation Temperature   | 0 to 50°C                              |
| Storage Temperature        | -20 to +75°C                           |
| NVP                        | 69%                                    |
| Impedance                  | 100±15% Ω                              |
| Thickness of Outer Jacket  | 0.60 to .65mm                          |
| Coverage                   | 100%                                   |

### HIGH FREQUENCY ELECTRICAL PARAMETERS

| FREQ (MHz) | ATTN (dB/100m) max. | NEXT (dB) min. | PSNEXT (dB) min. | ACRF (dB @ 100 m) min. | PSACRF (dB @ 100 m) min | Return Loss (dB/100m) |
|------------|---------------------|----------------|------------------|------------------------|-------------------------|-----------------------|
| 1          | 2.1                 | 65             | 62               | 63                     | 60.3                    | 19                    |
| 4          | 4                   | 63             | 60.5             | 51.2                   | 48.2                    | 19                    |
| 8          | 5.7                 | 58.2           | 55.6             | 45.2                   | 42.2                    | 19                    |
| 10         | 6.3                 | 56.6           | 54               | 43.3                   | 40.3                    | 19                    |
| 16         | 8                   | 53.2           | 50.6             | 39.2                   | 36.2                    | 18                    |
| 20         | 9                   | 51.6           | 49               | 37.2                   | 34.2                    | 17.5                  |
| 25         | 10.1                | 50             | 47.3             | 35.3                   | 32.3                    | 17                    |
| 31.25      | 11.4                | 48.4           | 45.7             | 33.4                   | 30.4                    | 16.5                  |
| 62.5       | 16.5                | 43.4           | 40.6             | 27.3                   | 24.3                    | 14                    |
| 100        | 21.3                | 39.9           | 37.1             | 23.3                   | 20.3                    | 12                    |
| 200        | 31.5                | 34.8           | 31.9             | 17.2                   | 14.2                    | 9                     |
| 250        | 35.9                | 33.1           | 30.2             | 15.3                   | 12.3                    | 8                     |

### LOW FREQUENCY ELECTRICAL PARAMETER

- CONDUCTOR RESISTANCE (DC): 93.8 Ω/1000 mtr @20°C. Max.
- RESISTANCE UNBALANCE : 5% Max
- MUTUAL CAPACITANCE: 5.6 nF/100 mtr Max.
- CAPACITANCE UNBALANCE PAIR/GROUND: 330pF/100 mtr Max.
- CHARACTERISTIC IMPEDANCE: 100 ± 15% Ω
- Propagation Delay Skew: 45 ns/100 mtr Max.
- Normal Velocity of Propagation: 69%
- Generally confirming to EIA/TIA 568-C.2