

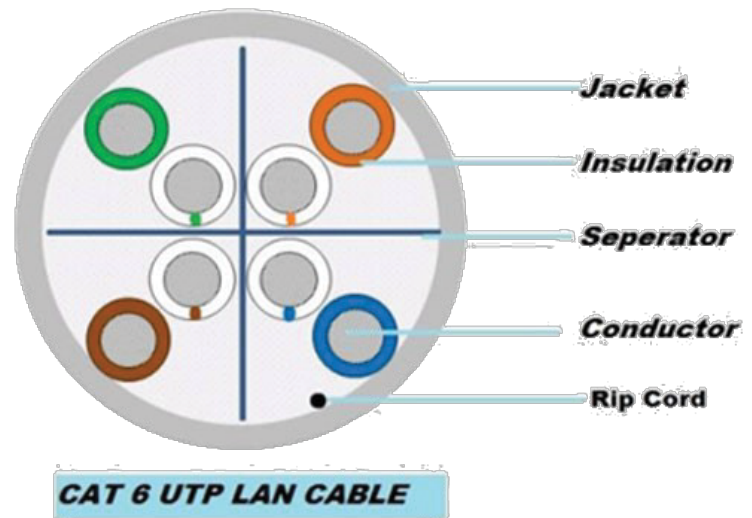


SP2CAT6-UTP-305M  
**CATALOGUE**

## SP2CAT6-UTP-305M

### Cat6, 4Pair UTP Cable (Tangle Free)

- Exceed ISO/IEC 11801, IEC 61156-5, ANSI/TIA /EIA- 568-C.2 Class E Standards backward compatible to Cat5e Applications
- Excellent Margin with suppression of Cross Talk (NEXT)
- 4 Pair Separator Design
- 24 AWG cable
- **Optionally Available in Low Smoke Zero Halogen and PE jacket and Armoured**



#### 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

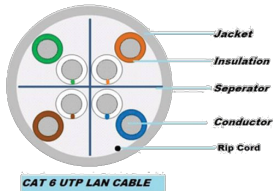
##### Weather Care

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.



CONNECTING YOU  
TO THE WORLD

**Shivpriya plus2**  
—RELIABLE.SECURITY.SOLUTIONS—



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### Functions

#### Solid Annealed 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 protection against the electromagnetic force emitted from the current.

#### 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

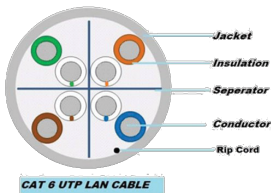
HDPE, or high-density polyethylene, is an excellent material as a direct replacement for distribution insulators of all types. HDPE is much lighter than its porcelain counterparts and almost impervious to the cracking so common to porcelain.

**Shivpriya plus2** Connecting You to the World.

SHIVPRIYA PLUS2 cables provide a means of connecting people and devices around the world.

SHIVPRIYA PLUS2 cables are reliable and trustworthy. It is the initiative to help the people and industry in the area where they are the most vulnerable and to empower the sense of safety and security in our hearts that gave birth to "SHIVPRIYA PLUS2". And we are moving ahead with our vision to make the world a safer and more secure place.





# SP2CAT6-UTP-305M

## Cat6, 4Pair UTP Cable (Tangle Free)

| Feature                    | Specifcaton                          |
|----------------------------|--------------------------------------|
| Conduct Type               | Solid Bare Electrolytic Grade Copper |
| Nominal Conductor Diameter | 24 AWG (.50 ± 0.015 mm)              |
| Insulation                 | Polyethylene (HDPE)                  |
| No. of Pair                | 4, Each pair Twisted                 |
| Pairing                    | Twisted into Two core                |
| No of Video Core           | One                                  |
| Outer Sheath Material      | PVC                                  |
| Colour of Sheath           | Grey                                 |
| Approximate OD             | 5.7 ± 0.30 mm                        |
| Rip Cord                   | Yes                                  |
| Cross Filler               | HDPE                                 |
| Sequential Marking         | Every Meter                          |
| Resistance Unbalance       | 5% Max                               |
| Conductor Resistance       | 93.8Ω/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                            |

| Feature             | Specifcaton   |
|---------------------|---------------|
| Storage Temperature | -20 to +75°C  |
| NVP                 | 69%           |
| Impedance           | 100±15% Ω     |
| Worst Cable Skew    | 45ns/100 mtr. |

HIGH FREQUENCY ELECTRICAL PARAMETER

| FREQ (MHz) | ATT (dB/100m) max. | NEXT (dB) min. | PS.NEXT (dB) min. | ACRF (dB@100 m) min. | PS.ACRF (dB@ 100 m) min | Return Loss (dB/100m) |
|------------|--------------------|----------------|-------------------|----------------------|-------------------------|-----------------------|
| 1          | 2.1                | 65.0           | 62.0              | 63.3                 | 60.3                    | 19                    |
| 4          | 4.0                | 63.0           | 60.5              | 51.2                 | 48.2                    | 19                    |
| 8          | 5.7                | 58.2           | 55.6              | 45.2                 | 42.2                    | 19                    |
| 10         | 6.3                | 56.6           | 54.0              | 43.3                 | 40.3                    | 19                    |
| 16         | 8.0                | 53.2           | 50.6              | 39.2                 | 36.2                    | 18                    |
| 20         | 9.0                | 51.6           | 49.0              | 37.2                 | 34.2                    | 17.5                  |
| 25         | 10.1               | 50.0           | 47.3              | 35.3                 | 32.3                    | 17.0                  |
| 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                    | 14.0                  |
| 100        | 21.3               | 39.9           | 37.1              | 23.3                 | 20.3                    | 12.0                  |
| 200        | 31.5               | 34.8           | 31.9              | 17.2                 | 14.2                    | 9.0                   |
| 250        | 35.9               | 33.1           | 30.2              | 15.3                 | 12.3                    | 8.0                   |

