



# Trident CAT6 UTP SWA P.E.

Eca  
CPR

## Key Features

- P.E. Sheath
- Galvanized Steel Wire
- UTP Unshielded Twisted Pair
- Metre Marked
- Solid Wire 24AWG

## Cable Type:

CAT6 UTP SWA P.E.

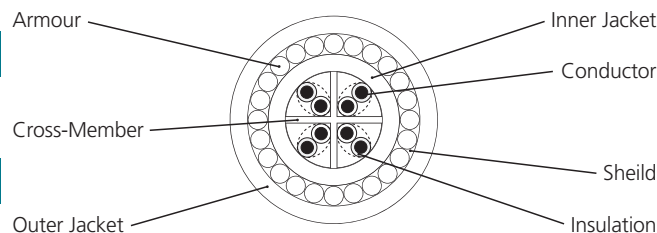
## Part No: TRI-000612

## General Description:

Suitable for all installations requiring performances up to 250MHz, and for external and direct burial installations.

## Relevant Standards:

ISO/IEC 11801-2, ANSI/TIA-568-B.2-1, RoHS Compliant



## Cable Construction:

## Material Breakdown:

|                  |                                       |                                     |
|------------------|---------------------------------------|-------------------------------------|
| Conductor        | Solid Bare Copper                     |                                     |
|                  | Nom. O.D. (mm)                        | 0.570 up +0.002   0.570 down -0.010 |
| Insulation       | SPE                                   | Diameter: 1.05+0.13mm               |
| Sheath           | Thickness                             | 0.55 + 0.05mm                       |
|                  | External O.D.                         | 11.2 + 0.5mm                        |
|                  | Surface                               | Clean & Smooth                      |
|                  | Material                              | PE (complies RoHS)                  |
|                  | Colour                                | T.B.C                               |
| Surface Printing | Letter Height                         | 3.0 + 0.3mm                         |
|                  | Colour                                | Black                               |
|                  | Print Error & Space                   | <+ 0.5%, 1m                         |
| Core Colour      | 1 White-Blue /Blue                    | 2 White-Orange /Orange              |
|                  | 3 White-Green /Green                  | 4 White-Brown /Brown                |
| Packaging        | Wooden Tray & Carton                  |                                     |
|                  | Packing Length: 305mtr box /Per Metre |                                     |
|                  | Rip Cord: No                          | Drain Wire: No                      |



### Sheath Physical Properties:

|                                     |                   |      |
|-------------------------------------|-------------------|------|
| Before Aging Tensile Strength (Mpa) |                   |      |
| Before Aging Elongation (%)         | ≥15.0             | ≥300 |
| Aging Period (°C x hrs.)            | 80°C x 24h x 7d   |      |
| After Aging Tensile Strength (Mpa)  | ≥12.5             |      |
| After Aging Elongation (%)          | ≥250              |      |
| Cold bend (-20±2°C x 4h)            | No visible cracks |      |

### Electrical Characteristics (20°C):

|                                      |                      |
|--------------------------------------|----------------------|
| 1.0-100.0 MHz                        | Impedance (Ω) 100±15 |
| 100.0-250 MHz                        | Impedance (Ω) 100±22 |
| Unbalanced-to-ground capacitance     | (pf/100m) max 330    |
| Max Conductor DC Resistance (Ω/100m) | 9.5                  |
| Min Insulation DC Resistance (%)max  | 5.0                  |

### Technical Performance (100m):

| Frequency (MHz) | RL >dB | ATT (20°C) <dB | Next ≥dB | Phase Delay ≥dB |
|-----------------|--------|----------------|----------|-----------------|
| 1               | 20.0   | 2.0            | 74.3     | -               |
| 4               | 23.0   | 3.8            | 65.3     | -               |
| 8               | 24.5   | 5.3            | 60.8     | -               |
| 10              | 25.0   | 6.0            | 59.3     | -               |
| 16              | 25.0   | 7.6            | 56.2     | -               |
| 20              | 25.0   | 8.5            | 54.8     | -               |
| 25              | 24.3   | 9.5            | 53.2     | -               |
| 31.20           | 23.6   | 10.7           | 51.2     | -               |
| 62.5            | 21.5   | 15.4           | 47.4     | -               |
| 100             | 20.1   | 19.8           | 44.3     | -               |
| 200             | 18.0   | 29.0           | 39.8     | -               |
| 250             | 17.3   | 32.8           | 38.3     | -               |