

## > CARACTERÍSTICAS

|                                   |                                                        |                        |                                |
|-----------------------------------|--------------------------------------------------------|------------------------|--------------------------------|
| Category                          | U/UTP CAT5E-4P-PVC-CM                                  |                        |                                |
| Reference Standard                | ISO/IEC11801、TIA-568-C.2                               |                        |                                |
| Conductor                         | Material                                               | Solid-Bare Copper      |                                |
|                                   | Nom.O.D.(mm)                                           | 0.500                  | up<br>down<br>+0.005<br>-0.005 |
| Insulation                        | Material                                               | HDPE                   |                                |
|                                   | Diameter                                               | 0.88±0.05mm            |                                |
| Sheath                            | Thickness                                              | 0.50±0.05 mm           |                                |
|                                   | External O.D.                                          | 5.0±0.4 mm             |                                |
|                                   | Surface                                                | Clean,Frap,Satiation   |                                |
|                                   | Material                                               | PVC(complies RoHS),CM  |                                |
|                                   | Color                                                  | TBD                    |                                |
| Surface Printing                  | Letter height                                          | 3.0±0.3mm              |                                |
|                                   | Color                                                  | Black                  |                                |
|                                   | Print error & Space                                    | ≤±0.5%、1m              |                                |
| Core Color                        | 1 White- Blue /Blue                                    |                        | 2 White-Orange /Orange         |
|                                   | 3 White- Green /Green                                  |                        | 4 White- Brown /Brown          |
| Packing                           | Wooden Tray & Carton                                   |                        |                                |
| Carton dimension                  | According to the requires                              |                        |                                |
| Packing length                    | (305±1.5)m                                             |                        |                                |
| Rip-cord                          | Yes                                                    | Drain wire             | No                             |
| Sheath Physical Properties        | Before Aging                                           | Tensile Strength (Mpa) | ≥13.5                          |
|                                   |                                                        | Elongation(%)          | ≥150                           |
|                                   | Aging Period(°C×hrs)                                   | 100°c×24h×7d           |                                |
|                                   | After Aging                                            | Tensile Strength(Mpa)  | ≥12.5                          |
|                                   |                                                        | Elongation(%)          | ≥125                           |
| Electrical Characteristics (20°c) | Cold bend(-20±2°c×4h) 8×Cable O.D. - No visible cracks |                        |                                |
|                                   | 1.0-100.0MHz                                           | Impedance(Ω)           | 100±15                         |
|                                   | 1.0-100.0MHz                                           | Delay Skew (ns/100m)   | ≤45                            |
|                                   | DC Resistance(Ω/100m) max                              |                        | 9.5                            |
|                                   | DC Conductor Resistance Unbalance(%) max               |                        | 5.0                            |

## > ESPECIFICACIONES

### Technical Performance (100m):

| Frequency (MHz) | RL ≥dB | ATT ≤dB | NEXT ≥dB | Phase DELAY ≤ns |
|-----------------|--------|---------|----------|-----------------|
| 1               | 20.0   | 2.0     | 65.3     | 570.00          |
| 4.0             | 23.0   | 4.1     | 56.3     | 552.00          |
| 8.0             | 24.5   | 5.8     | 51.8     | 546.73          |
| 10.0            | 25.0   | 6.5     | 50.3     | 545.38          |
| 16.0            | 25.0   | 8.2     | 47.2     | 543.00          |
| 20.0            | 25.0   | 9.3     | 45.8     | 542.05          |
| 25.0            | 24.3   | 10.4    | 44.3     | 541.20          |
| 31.25           | 23.6   | 11.7    | 42.9     | 540.44          |
| 62.5            | 21.5   | 17.0    | 38.4     | 538.55          |
| 100             | 20.1   | 22.0    | 35.3     | 537.60          |

| Frequency (MHz) | PSNEXT ≥dB | ELFEXT ≥dB | PSELFEXT ≥dB |
|-----------------|------------|------------|--------------|
| 1               | 62.3       | 63.8       | 60.8         |
| 4               | 53.3       | 51.8       | 48.8         |
| 8               | 48.8       | 45.7       | 42.7         |
| 10              | 47.3       | 43.8       | 40.8         |
| 16              | 44.4       | 39.7       | 36.7         |
| 20              | 42.8       | 37.8       | 34.8         |
| 25              | 41.3       | 35.8       | 32.8         |
| 31.25           | 39.9       | 33.9       | 30.9         |
| 62.5            | 35.4       | 27.9       | 24.9         |
| 100             | 32.3       | 23.8       | 20.8         |

