

**SCP PART#: CAT5E-YL-5-ETL**

Rev03/20

**Description:**

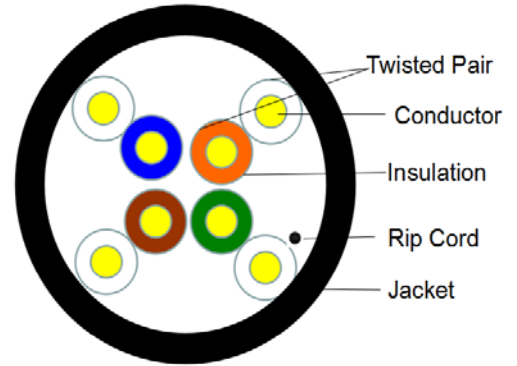
CAT5E 350 MHz 24 AWG SOLID BC 4PR UTP,  
ANSI/TIA 568.2-D, CMR ETL, PVC JKT- YELLOW - 500 FT BOX

**Regulatory:**

ANSI/TIA 568.2-D  
CMR ETL  
EU RoHS 2011/65 EU Compliant

**Application:**

Networking Lan Cable



**Construction Characteristics:**

**Electrical & Physical Characteristics:**

|             |               |                     |                                      |                  |                         |                    |
|-------------|---------------|---------------------|--------------------------------------|------------------|-------------------------|--------------------|
| Conductor   | Material      | Solid Bare Copper   | Operating Temperature Range          |                  | - 20°C + 75°C           |                    |
|             | Size          | 24AWG X 4P          | Conductor Resistance                 |                  | Max 93.8 ohm/km at 20°C |                    |
|             | Construction  | 1/0.48+/-0.004mm    | Dielectric Strength                  |                  | Min AC1.5KV             |                    |
| Insulation  | Material      | HDPE                | Insulation                           | Unaged           | Tensile Strength        | 12.3Mpa            |
|             | Min.Thickness | 0.175mm             |                                      |                  | Elongation              | 150%               |
|             | AVG.Thickness | 0.18mm              | Jacket                               | Aged             | Tensile Strength        | 9.8Mpa(100°C 168h) |
|             | Diameter      | 0.85+/-0.01mm       |                                      |                  | Elongation              | 100%(100°C 168h)   |
|             | Colors        |                     |                                      | Blue- White/Blue | Unaged                  | Tensile Strength   |
|             |               | Orange-White/Orange |                                      | Elongation       | 100%                    |                    |
|             |               | Green-White/Green   | Aged                                 | Tensile Strength | 11.7Mpa(100°C 168h)     |                    |
|             |               | Brown-White/Brown   |                                      | Elongation       | 50%(100°C 168h)         |                    |
| Jacket      | Material      | PVC                 | Rated Voltage                        |                  | Max 300Volts            |                    |
|             | Min.Thickness | 0.54mm              | DC Resisitance Unbalance             |                  | Max 5%                  |                    |
|             | AVG.Thickness | 0.60mm              | Pair-to-Ground Capacitance Unbalance |                  | Max 3300pF/km           |                    |
|             | Diameter      | 5.00+/-0.10mm       | Characteristic Impedance             |                  | 100+/-15OHM             |                    |
|             | Rip Cord      | Nylon               | Nominal Velocity of Propagation(%)   |                  | 67~69                   |                    |
|             | Color         | Per request         | Propagation Delay                    |                  | Max 536ns/100m          |                    |
| Bend Radius |               | Min 20D/105mm       | Delay Skew                           |                  | Max 45ns/100m           |                    |

**Marking:**

STRUCTURED CABLE PRODUCTS ---CAT5E--- CAT5E --- ANSI/TIA 568.2-D ETL LISTED 5002121 (ETL) C(ETL) CMR FT4  
75C 24AWG SOL BC 4PR UTP EU RoHS EC ZONE/DEVICE A B C D E 0 1 2 3 4 5 6 7 8 9 \*\*\*FEET

**Packaging:**

| Approx.Weight    | Approx.Dimension(mm) | Package        | Packages per pallet |
|------------------|----------------------|----------------|---------------------|
| 5.4kgs/11.905lbs | 300X260X320          | 500ft/152m Box | 48                  |

### Performance-1

| ITEM<br>Frequency<br>v | Attenuation Max<br>(dB/100m) |      | NEXT Min (dB) |      | PS NEXT Min (dB) |      | ACR Min (dB) |      |
|------------------------|------------------------------|------|---------------|------|------------------|------|--------------|------|
|                        | Standard                     | SCP  | Standard      | SCP  | Standard         | SCP  | Standard     | SCP  |
| 1                      | 2                            | 2    | 65.3          | 80   | 62.3             | 79   | 63.3         | 78   |
| 4                      | 4.1                          | 3.7  | 56.3          | 67.1 | 53.3             | 65.7 | 52.2         | 63.4 |
| 8                      | 5.8                          | 5.2  | 51.8          | 65.5 | 48.8             | 62.5 | 46           | 60.3 |
| 10                     | 6.5                          | 5.9  | 50.3          | 62.1 | 47.3             | 59.7 | 43.8         | 56.2 |
| 16                     | 8.2                          | 7.4  | 47.2          | 57.9 | 44.2             | 56.3 | 39           | 50.5 |
| 20                     | 9.3                          | 8.2  | 45.8          | 57.6 | 42.8             | 54.7 | 36.5         | 49.4 |
| 25                     | 10.4                         | 9.2  | 44.3          | 54.3 | 41.3             | 51.7 | 33.9         | 45.1 |
| 31.25                  | 11.7                         | 10.3 | 42.9          | 54.7 | 39.9             | 52   | 31.2         | 44.4 |
| 62.5                   | 17                           | 14.6 | 38.4          | 49.4 | 35.4             | 46.7 | 21.4         | 34.8 |
| 100                    | 22                           | 18.6 | 35.3          | 42.5 | 32.3             | 41.7 | 23.3         | 23.9 |
| 155                    | 28.1                         | 22.9 | 32.4          | 48.8 | 29.4             | 45.7 | 4.3          | 25.9 |
| 200                    | 32.4                         | 25.7 | 30.8          | 42.3 | 27.8             | 38.9 | ---          | ---  |
| 300                    | 41                           | 31.6 | 28.1          | 39.7 | 25.1             | 35.8 | ---          | ---  |
| 350                    | 44.9                         | 34.3 | 27.1          | 44   | 24.1             | 34.2 | ---          | ---  |

### Performance-2

| ITEM<br>Frequency<br>v | RL Min (dB) |      | ELFEXT Min (dB) |      | PS ELFEXT Min (dB) |      | PSACR Min (dB) |      |
|------------------------|-------------|------|-----------------|------|--------------------|------|----------------|------|
|                        | Standard    | SCP  | Standard        | SCP  | Standard           | SCP  | Standard       | SCP  |
| 1                      | 20          | 24.1 | 63.8            | 76.2 | 60.8               | 73.2 | 60.3           | 77   |
| 4                      | 23          | 25.2 | 51.8            | 61.2 | 48.8               | 59.5 | 49.2           | 62   |
| 8                      | 24.5        | 25.7 | 45.7            | 52.2 | 42.7               | 51.5 | 43             | 57.3 |
| 10                     | 25          | 27.1 | 43.8            | 50.8 | 40.8               | 50.5 | 40.8           | 53.8 |
| 16                     | 25          | 26.2 | 39.7            | 47.7 | 36.7               | 45.5 | 36             | 48.9 |
| 20                     | 25          | 26.1 | 37.8            | 47.9 | 34.8               | 46.4 | 33.5           | 46.5 |
| 25                     | 24.3        | 26.4 | 35.8            | 48.7 | 32.8               | 45.9 | 30.9           | 42.5 |
| 31.25                  | 23.6        | 24.6 | 33.9            | 43.9 | 30.9               | 41.1 | 28.2           | 41.7 |
| 62.5                   | 21.5        | 24   | 27.8            | 34.4 | 24.8               | 34   | 18.4           | 32.1 |
| 100                    | 20.1        | 22.8 | 23.8            | 29   | 20.8               | 27.9 | 10.3           | 23.1 |
| 155                    | 18.8        | 26.5 | 20              | 33.6 | 17                 | 26.3 | 1.3            | 22.8 |
| 200                    | 18          | 28.1 | 1.7             | 27.8 | 14.7               | 23.2 | ---            | ---  |
| 300                    | 16.8        | 26.3 | 14.2            | 35.7 | 11.2               | 23.9 | ---            | ---  |
| 350                    | 16.3        | 28.5 | 12.9            | 31.6 | 9.9                | 21.3 | ---            | ---  |