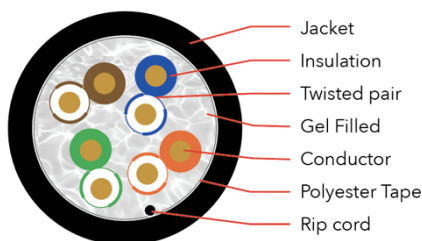


# CAT 5E 350MHz UTP CABLE

## DIRECT BURIAL OUTDOOR (GEL PE)



### Cable Detail



### Applicable Standards

- UL444 (Mechanical Properties only)
- TIA-568-C.2
- RoHS Compliant



### Physical Characteristics

|                        |                            |
|------------------------|----------------------------|
| Conductor Material     | Solid Bare Copper          |
| Number of Conductors   | 4                          |
| AWG                    | 24 AWG                     |
| Stranding              | Solid                      |
| Fill Type              | Gel                        |
| Insulation Material    | HDPE                       |
| Overall Diameter       | 0.0341 in. $\pm$ 0.0002 in |
| Average Thickness      | 0.0078 in                  |
| Jacket Material        | LLDPE, Sunlight Resistant  |
| Average Wall Thickness | 0.020 in.                  |
| Nominal Outer Diameter | 0.216 in. $\pm$ 0.008 in   |
| Nominal Weight         | 27 lbs.                    |
| Shielding (Y/N)        | No                         |
| Ripcord (Y/N)          | Yes                        |
| Separator (Y/N)        | No                         |

### Mechanical Characteristics

|                   |              |                      |
|-------------------|--------------|----------------------|
| Temperature Range | Installation | 0°C to + 75°C        |
|                   | Operating    | -20°C to + 75°C      |
| Tensile Strength  | Before       | $\geq$ 19 Mpa        |
| Elongation        | Aging        | $\geq$ 300%          |
| Aging Condition   |              | 100°C x 96 hours     |
|                   | After        | $\geq$ 85% of unaged |
|                   | Aging        | $\geq$ 50% of unaged |

### Insulation Colors

|        |                |        |
|--------|----------------|--------|
| Pair 1 | White / Blue   | Blue   |
| Pair 2 | White / Orange | Orange |
| Pair 3 | White / Green  | Green  |
| Pair 4 | White / Brown  | Brown  |

| Part Numbers     | Jacket Color | Package       |
|------------------|--------------|---------------|
| <b>5E0SPGBK2</b> | Black        | 1000FT / Reel |

### Electrical Characteristics

|                                       |                                  |
|---------------------------------------|----------------------------------|
| DC Resistance                         | 9.38 $\Omega$ / 100m Max. @ 20°C |
| Resistance Unbalanced                 | 5% Max. @ 20°C                   |
| Capacitance Unbalance                 | 330 pF / 100m Max. @ 20°C        |
| Mutual Capacitance                    | 5.6 nF / 100m Max. @ 20°C        |
| Delay Skew                            | 45 nS / 100m Max. @ 20°C         |
| Nominal Velocity of Propagation (NVP) | 69%                              |

### Electrical Performance

| Frequency (MHz) | Attenuation (dB/100m) Max | Return loss (dB) Min. | NEXT (dB) Min. | PS-NEXT (dB) Min. |
|-----------------|---------------------------|-----------------------|----------------|-------------------|
| 1               | 2.04                      | 20.00                 | 65.30          | 61.00             |
| 4               | 4.05                      | 23.01                 | 56.27          | 48.96             |
| 10              | 6.47                      | 25.0                  | 50.30          | 41.00             |
| 16              | 8.25                      | 25.0                  | 47.24          | 36.92             |
| 20              | 9.27                      | 25.0                  | 45.78          | 34.98             |
| 25              | 10.42                     | 24.32                 | 44.33          | 33.04             |
| 31.25           | 11.72                     | 23.64                 | 42.88          | 31.10             |
| 62.5            | 16.99                     | 21.54                 | 38.36          | 25.08             |
| 100             | 21.98                     | 20.11                 | 35.30          | 21.00             |
| 350             | 44.85                     | 16.30                 | 27.14          | 10.12             |

| Frequency (MHz) | ELFEXT (dB/100m) Min. | PS-ELFEXT (dB) Min. | Delay (ns/100m) Max. | ACR (dB) |
|-----------------|-----------------------|---------------------|----------------------|----------|
| 1               | 64.00                 | 61.00               | 570.00               | 63.26    |
| 4               | 51.96                 | 48.96               | 552.00               | 52.22    |
| 10              | 44.00                 | 41.00               | 545.38               | 43.83    |
| 16              | 39.92                 | 36.92               | 543.00               | 38.99    |
| 20              | 37.98                 | 34.98               | 542.05               | 36.52    |
| 25              | 36.04                 | 33.04               | 541.20               | 33.91    |
| 31.25           | 34.10                 | 31.10               | 540.44               | 31.16    |
| 62.5            | 28.08                 | 25.08               | 538.55               | 21.47    |
| 100             | 24.00                 | 21.00               | 537.60               | 13.33    |
| 350             | 13.12                 | 10.12               | 535.92               | -        |

\* Values above 100MHz are information only.

### Cable Marking

CATEGORY 5E 350MHZ 24AWG 4PR UTP DIRECT BURIAL OUTDOOR GEL FILLED TIA-568-C.2 \*\*\*\*\*

