

COMMODITY CABLES, INC.

1 CAT5E 350 24/4 CM + 16AWG/4C 65 STRAND SPEAKER CABLE

Description

Description: 1 CAT5E 350 24/4 CM + 16AWG/4C 65 STRAND SPEAKER CABLE
Construction: Siamese
Model: 15ECM164R5P
Application: Horizontal Wiring in LAN
UL Rating: CM
Reference Standard: UL Subject 444, UL 13; EIA/TIA568 & ISO/EIC 11801

Marking

COMMODITY CABLES, INC. --- 15ECM164R5P -- E# UL or c (UL) CM 75C CAT5E 350MHZ 4pr
 24AWG UTP + 4COND. 16AWG (UL) TYPLE CM-CL3 SPEAKER CABLE XXX/XXXFT. -- MT/YR

CAT5E 350MHz. Specifications

| | | |
|----------------------------|-------------------|-------------|
| Center Conductor | Solid Bare Copper | |
| AWG | 24 | |
| Conductor Dia. (mm) | 0.525 | |
| Insulation | PE | |
| Average Thickness (mm) | 0.21 | |
| Min. Point Thickness (mm) | 0.17 | |
| Insulation Dia. (±0.02mm) | 0.91 | |
| Twisting Lay Length (mm) | 30underneath | |
| Cabling Lay Length (±20mm) | 140 | |
| Inner Jacket | Lan Cable | Power Cable |
| Average Thickness (mm) | 0.5 | 0.8 |
| Min. Point Thickness (mm) | 0.43 | 0.68 |
| Outer Dia. (±0.2mm) | 0.43 | 7 |
| Rip Cord | Per request | Per Request |

Color

CAT5E Insulation Colors:
 Blue, White/Blue, Orange, White/Orange, Green, White/Greebm Brown, White/Brown

Power Specifications

| | |
|--|-----------|
| Rated Voltage / Temperature | 30v/75 |
| Flammability Test | CL3 & FT4 |
| Conductor Stranded Bare Copper (mm) | 65/0.16 |
| Insulation Dia (±0.1mm) | 2.2 |
| Cores: 1. Black 2. White 3. Red 4. Green | |
| Average Thickness (±0.05mm) | 0.53 |
| Min. Point Thickness (mm) | 0.48 |
| OuterDia. (±0.02mm) | 5 |
| H (±0.02mm) | 7 |
| W (±0.02mm) | 13.2 |
| Rip Cord | Required |
| Weight | 90 |

Power Insulation

| | | |
|-----------------------------|------------------------|-------------------|
| Mechanical Characteristics: | | |
| Test Material | PVC | |
| Before | Tensile Strength (Mpa) | >=10.35 |
| Aging | Elongation (%) | >=100 |
| Aging Condition (Cxhrs) | 113±2_x168 | |
| After | Tensile Strength (Mpa) | >=70% of original |
| Aging | Elongation (%) | >=65% of original |

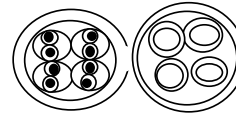
Standard Packaging/Jacket Color



500'
 Wooden Reel
 PURPLE JACKET
 Weight: 90 lbs.

Part No.:15ECM164R5P

CAT 5E



16/4 SPEAKER

Cat5E 350MHz. Electrical Specs:

| | |
|---|---------------------------------|
| Test Object | Jacket |
| Test Material | PVC |
| Before Tensile Strength (Mpa) | > = 13.8 |
| Aging Elongation (%) | > = 100 |
| Aging Condition (Cxhrs) | 100 x 240 |
| After Tensile Strength (Mpa) | > = 85% of unaged |
| After Elongation (%) | > = 50% of unaged |
| Cold Bend (-20+/-2 Cx4hrs) | No crack |
| Characteristic Impedance: | 100 Ohm +- 15 Ohm @ 1 ~ 100 MHz |
| Delay Skew: (ns/100m) | < = 45 |
| Pair-to-Ground Capacitance Unbalance (pF/100m): | < = 330 |
| Max. Conductor DC Resistance 20C (ohms/km): | 93.8 |
| Resistance Unbalanced (%): | <=5% |

Cat 5E 350MHz. Performance

| Frequency MHz | RL dB | Attenuation dB/100m | NEXT dB | ACR dB/100m |
|---------------|-------|---------------------|---------|-------------|
| 0.772 | 19.4 | 1.8 | 67 | 67.2 |
| 1 | 20 | 2 | 65.3 | 66.3 |
| 4 | 23 | 4.1 | 56.3 | 55.2 |
| 8 | 24.5 | 5.8 | 51.8 | 49 |
| 10 | 25 | 6.5 | 50.3 | 45.8 |
| 16 | 25 | 8.2 | 47.3 | 41 |
| 20 | 25 | 9.3 | 45.8 | 38.5 |
| 25 | 24.3 | 10.4 | 44.3 | 36.9 |
| 31.25 | 23.6 | 11.7 | 42.9 | 32.2 |
| 62.5 | 21.5 | 17 | 38.4 | 22.4 |
| 100 | 20.1 | 22 | 35.3 | 13.3 |
| 200 | 18 | 32.4 | 30.8 | |
| 300 | 16.8 | 41 | 28.02 | |
| 350 | 16.3 | 44.9 | 27.2 | |

| Frequency MHz | Delay Max (ns/100m) | ELFEXT dB/100m | PSELFEXT dB/100m | PSNEXT dB |
|---------------|---------------------|----------------|------------------|-----------|
| 0.772 | 575 | 66 | 63 | 64 |
| 1 | 570 | 63.8 | 60.8 | 62.3 |
| 4 | 552 | 51.7 | 48.7 | 53.3 |
| 8 | 546.7 | 45.7 | 42.7 | 48.8 |
| 10 | 545.4 | 43.8 | 40.8 | 47.3 |
| 16 | 543 | 39.7 | 36.7 | 44.3 |
| 20 | 542 | 37.7 | 34.7 | 42.8 |
| 25 | 541.2 | 35.8 | 32.8 | 41.3 |
| 31.25 | 540.4 | 33.9 | 30.9 | 39.9 |
| 62.5 | 538.6 | 27.8 | 24.8 | 35.4 |
| 100 | 537.6 | 23.8 | 20.8 | 32.3 |

*All values in this specification are nominal and are subjective to tolerances of +/- 10 to 15%.