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## **Specification of Cat5e CCU**

Center conductor: **0.51mm CCU, Cat5e**

Dielectric: **0.93mm**

Shielding:

Attenuation Values

Conductor:

Insulation material: **HP-PE**

Outer Jackets: **5.05**

Voltage rating: **2.5KV**

Pairs:

Nominal overall diameter: **5.10mm**

Reference Documents: **COMMSCOPE STANDARD**

UL Listed Specifications:

Standards:

### **Environmental Characteristics:**

Temperature Rating: **20**

Installation: **FLUKE**

Operations: **QC**

Maximum installation tension: **2.5KV**

Minimum bending radius: **41**

Nominal cable weight: **3.1Kg/100m**

Nominal cable diameter: **5.10mm**

### **Electrical Parameters:**

Mutual Capacitance:

Capacitance Unbalance: **200pF / Km**

Velocity of Propagation. **< = 0.62**

Max. Conductor D.C.R: **224**

Max. DCR Unbalance: **1.5%**

Max. Delay Skew:

Characteristic Impedance: **100+/-15 OMHS**

## Cat5e Cable

- Category 5 Enhanced Cable
- 1000ft Pull box
- CCA(Copper Clad Aluminum)
- 4 Pairs / 24AWG
- Up to 350MHz
- UL Listed (E321263)
- ISO9001
- White/Blue/Grey/Orange

| Frequency<br>(MHz) | SRL<br>dB/100 m | Return Loss<br>dB | Attenuation<br>dB/100 m | NEXT<br>dB | PS-NEXT<br>dB |
|--------------------|-----------------|-------------------|-------------------------|------------|---------------|
|                    | Minimum         | Minimum           | Maximum                 | Minimum    | Minimum       |
| 1                  | 23.0            | 20.0              | 2.0                     | 70.3       | 68.3          |
| 4                  | 23.0            | 23.0              | 4.1                     | 61.2       | 59.2          |
| 10                 | 23.0            | 25.0              | 6.4                     | 55.2       | 53.3          |
| 16                 | 23.0            | 25.0              | 8.1                     | 52.2       | 50.2          |
| 20                 | 23.0            | 25.0              | 9.1                     | 50.7       | 48.7          |
| 31.25              | 21.1            | 23.6              | 11.4                    | 47.8       | 45.8          |
| 62.5               | 18.1            | 21.5              | 16.4                    | 43.3       | 41.3          |
| 100                | 16.0            | 20.1              | 21.0                    | 40.3       | 38.3          |
| 155                | 14.1            | 18.8              | 26.8                    | 37.4       | 35.4          |
| 200                | 13.0            | 18.0              | 31.0                    | 35.7       | 33.7          |
| 300                | 11.2            | 16.8              | 39.2                    | 33.1       | 31.1          |
| 350                | 10.6            | 16.3              | 43                      | 32.1       | 30.1          |

|  | PS-ACR<br>dB/100 m |         |
|--|--------------------|---------|
|  | Minimum            | Maximum |
|  | 66.3               |         |
|  | 55.2               |         |
|  | 46.8               |         |
|  | 42.0               |         |
|  | 39.5               |         |
|  | 34.2               |         |
|  | 24.4               |         |
|  | 16.3               |         |
|  | 7.4                |         |
|  | 1.4                |         |

|                             |                    |
|-----------------------------|--------------------|
| Mutual Capacitance:         | 14 pF/ft nominal   |
| Capacitance Unbalance:      | 330 pF/ft maximum  |
| Velocity of Propagation:    | 70%                |
| Max. Conductor D.C.R.:      | 28.6 ohm/1000 feet |
| Max. DCR Unbalance:         | 3%                 |
| Max. Delay Skew:            | 18 ns/100 m        |
| Temperature Rating:         |                    |
| - Installation:             | 0°C to 50°C        |
| - Operation:                | -10°C to 60°C      |
| Maximum installing tension: | 25 lb              |
| Minimum bending radius:     | 1.0 inch           |
| Nominal cable weight:       | 15 lb/1000 feet    |

|                         |            |
|-------------------------|------------|
| Nominal cable diameter: | 0.185 inch |
|-------------------------|------------|