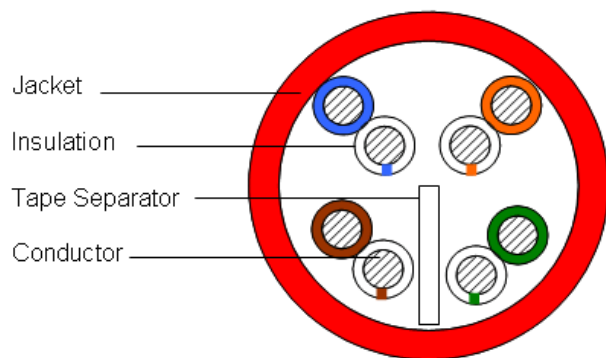


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Media 6® 65N4+ Category 6 U/UTP Cable, non-plenum, red jacket, 4 pair count, 1000 ft (305 m) length, CommPak

## Cross Section Drawing



## Construction Materials

|                     |             |
|---------------------|-------------|
| Jacket Material     | PVC         |
| Conductor Material  | Bare copper |
| Insulation Material | Polyolefin  |
| Separator Material  | Polyolefin  |

## Dimensions

|                      |                     |
|----------------------|---------------------|
| Cable Length         | 305 m   1000 ft     |
| Cable Weight         | 23.58 lb/kft        |
| Diameter Over Jacket | 5.588 mm   0.220 in |
| Jacket Thickness     | 0.508 mm   0.020 in |

## Electrical Specifications

|                                       |                                                                        |
|---------------------------------------|------------------------------------------------------------------------|
| ANSI/TIA Category                     | 6                                                                      |
| Characteristic Impedance              | 100 ohm                                                                |
| dc Resistance Unbalance, maximum      | 5 %                                                                    |
| dc Resistance, maximum                | 6.66 ohms/100 m                                                        |
| Delay Skew, maximum                   | 30 ns                                                                  |
| Mutual Capacitance                    | 5.6 nF/100 m @ 1 kHz                                                   |
| Nominal Velocity of Propagation (NVP) | 69 %                                                                   |
| Operating Frequency, maximum          | 250 MHz                                                                |
| Transmission Standards                | ANSI/TIA-568-C.2   CENELEC EN 50288-6-1   ISO/IEC 11801 Class E        |
| Safety Voltage Rating                 | 300 V                                                                  |
| Dielectric Strength, minimum          | 1500 Vac   2500 Vdc                                                    |
| Note                                  | All electrical transmission tests include swept frequency measurements |

## Environmental Specifications

|                          |                                     |
|--------------------------|-------------------------------------|
| Environmental Space      | Non-plenum                          |
| Flame Test Method        | CMR                                 |
| Installation Temperature | 0 °C to +60 °C (+32 °F to +140 °F)  |
| Operating Temperature    | -20 °C to +60 °C (-4 °F to +140 °F) |

## General Specifications

|                          |                      |
|--------------------------|----------------------|
| Cable Type               | U/UTP (unshielded)   |
| Pairs, quantity          | 4                    |
| Cable Component Type     | Horizontal           |
| Packaging Type           | CommPak® box         |
| Brand                    | Media 6®   Uniprise® |
| Jacket Color             | Red                  |
| Product Number           | 65N4+                |
| Conductor Gauge, singles | 23 AWG               |
| Conductor Type, singles  | Solid                |

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|                      |                |
|----------------------|----------------|
| Conductors, quantity | 8              |
| Separator Type       | Tape separator |

**Mechanical Specifications**

|                          |               |
|--------------------------|---------------|
| Pulling Tension, maximum | 11 kg   25 lb |
|--------------------------|---------------|

**Regulatory Compliance/Certifications**

|                 |                                                                                |
|-----------------|--------------------------------------------------------------------------------|
| <b>Agency</b>   | <b>Classification</b>                                                          |
| RoHS 2011/65/EU | Compliant                                                                      |
| ISO 9001:2008   | Designed, manufactured and/or distributed under this quality management system |



# Product Specifications



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## Electrical Performance

|        |                                                                                                         |
|--------|---------------------------------------------------------------------------------------------------------|
| CS     | CommScope                                                                                               |
| Std    | Refers to the standard value listed under Transmission Standards in the Electrical Specifications above |
| Typ    | Typical                                                                                                 |
| IL     | Insertion Loss (dB/100m)                                                                                |
| NEXT   | Near End Crosstalk (dB/100m)                                                                            |
| ACR    | Attenuation to Crosstalk Ratio (dB/100m)                                                                |
| PSNEXT | Power Sum Near End Crosstalk (db/100m)                                                                  |
| PSACR  | Power Sum Attenuation to Crosstalk Ratio (dB/100m)                                                      |
| ACRF   | Attenuation to Crosstalk Ratio - Far End (dB/100m)                                                      |
| PSACRF | Power Sum Attenuation to Crosstalk Ratio – Far End (dB/100m)                                            |
| RL     | Return Loss (dB)                                                                                        |
| TCL    | Transverse Conversion Loss (dB/100m)                                                                    |
| ELTCTL | Equal Level Transverse Conversion Transfer Loss (dB/100m)                                               |

| Freq.<br>MHz | IL   |      |      | NEXT |      |      | ACR  |      |       | PSNEXT |      |      | PSACR |      |       | ACRF |      |      | PSACRF |      |      | RL   |      |      | TCL  |      | ELTCTL |      |
|--------------|------|------|------|------|------|------|------|------|-------|--------|------|------|-------|------|-------|------|------|------|--------|------|------|------|------|------|------|------|--------|------|
|              | CS   | Std  | Typ  | CS   | Std  | Typ  | CS   | Std  | Typ   | CS     | Std  | Typ  | CS    | Std  | Typ   | CS   | Std  | Typ  | CS     | Std  | Typ  | CS   | Std  | Typ  | CS   | Std  | CS     | Std  |
| 1            | 2.0  | 2.0  | 1.8  | 74.3 | 74.3 | 89.3 | 72.3 | 72.3 | 87.6  | 72.3   | 72.3 | 87.0 | 70.3  | 70.3 | 85.3  | 67.8 | 67.8 | 84.3 | 64.8   | 64.8 | 82.4 | 20.0 | 20.0 | 34.0 | 40.0 | 40.0 | 35.0   | 35.0 |
| 4            | 3.8  | 3.8  | 3.5  | 65.3 | 65.3 | 80.0 | 61.5 | 61.5 | 76.5  | 63.3   | 63.3 | 77.7 | 59.5  | 59.5 | 74.1  | 55.8 | 55.8 | 72.6 | 52.8   | 52.8 | 70.8 | 23.0 | 23.0 | 33.9 | 40.0 | 40.0 | 23.0   | 23.0 |
| 8            | 5.3  | 5.3  | 5.0  | 60.8 | 60.8 | 75.5 | 55.4 | 55.4 | 70.5  | 58.8   | 58.8 | 73.2 | 53.4  | 53.4 | 68.2  | 49.7 | 49.7 | 66.8 | 46.7   | 46.7 | 64.9 | 24.5 | 24.5 | 35.5 | 40.0 | 40.0 | 16.9   | 16.9 |
| 10           | 6.0  | 6.0  | 5.6  | 59.3 | 59.3 | 73.9 | 53.3 | 53.3 | 68.3  | 57.3   | 57.3 | 71.5 | 51.3  | 51.3 | 65.9  | 47.8 | 47.8 | 64.9 | 44.8   | 44.8 | 63.0 | 25.0 | 25.0 | 36.5 | 40.0 | 40.0 | 15.0   | 15.0 |
| 16           | 7.6  | 7.6  | 7.2  | 56.2 | 56.2 | 70.6 | 48.7 | 48.7 | 63.4  | 54.2   | 54.2 | 68.3 | 46.7  | 46.7 | 61.1  | 43.7 | 43.7 | 60.8 | 40.7   | 40.7 | 58.9 | 25.0 | 25.0 | 37.6 | 38.0 | 38.0 | 10.9   | 10.9 |
| 20           | 8.5  | 8.5  | 8.1  | 54.8 | 54.8 | 69.2 | 46.3 | 46.3 | 61.2  | 52.8   | 52.8 | 66.9 | 44.3  | 44.3 | 58.8  | 41.8 | 41.8 | 58.9 | 38.8   | 38.8 | 56.9 | 25.0 | 25.0 | 38.2 | 37.0 | 37.0 | 9.0    | 9.0  |
| 25           | 9.5  | 9.5  | 9.0  | 53.3 | 53.3 | 67.6 | 43.8 | 43.8 | 58.6  | 51.3   | 51.3 | 65.3 | 41.8  | 41.8 | 56.2  | 39.8 | 39.8 | 57.0 | 36.8   | 36.8 | 55.0 | 24.3 | 24.3 | 38.2 | 36.0 | 36.0 | 7.0    | 7.0  |
| 31.25        | 10.7 | 10.7 | 10.1 | 51.9 | 51.9 | 66.3 | 41.2 | 41.2 | 56.1  | 49.9   | 49.9 | 63.9 | 39.2  | 39.2 | 53.8  | 37.9 | 37.9 | 55.0 | 34.9   | 34.9 | 53.0 | 23.6 | 23.6 | 38.3 | 35.1 | 35.1 |        |      |
| 62.5         | 15.4 | 15.4 | 14.5 | 47.4 | 47.4 | 61.4 | 32.0 | 32.0 | 46.9  | 45.4   | 45.4 | 59.0 | 30.0  | 30.0 | 44.5  | 31.9 | 31.9 | 48.9 | 28.9   | 28.9 | 46.9 | 21.5 | 21.5 | 34.7 | 32.0 | 32.0 |        |      |
| 100          | 19.8 | 19.8 | 18.6 | 44.3 | 44.3 | 58.1 | 24.5 | 24.5 | 39.5  | 42.3   | 42.3 | 55.7 | 22.5  | 22.5 | 37.1  | 27.8 | 27.8 | 44.7 | 24.8   | 24.8 | 42.8 | 20.1 | 20.1 | 31.6 | 30.0 | 30.0 |        |      |
| 155          | 25.2 | 25.2 | 23.5 | 41.4 | 41.4 | 55.7 | 16.3 | 16.3 | 32.2  | 39.4   | 39.4 | 53.0 | 14.3  | 14.3 | 29.5  | 24.0 | 24.0 | 41.0 | 21.0   | 21.0 | 39.0 | 18.8 | 18.8 | 29.6 | 28.1 | 28.1 |        |      |
| 200          | 29.0 | 29.0 | 26.9 | 39.8 | 39.8 | 52.6 | 10.8 | 10.8 | 25.7  | 37.8   | 37.8 | 50.4 | 8.8   | 8.8  | 23.4  | 21.8 | 21.8 | 38.6 | 18.8   | 18.8 | 36.7 | 18.0 | 18.0 | 29.3 | 27.0 | 27.0 |        |      |
| 250          | 32.8 | 32.8 | 30.3 | 38.3 | 38.3 | 50.8 | 5.5  | 5.5  | 20.5  | 36.3   | 36.3 | 48.6 | 3.5   | 3.5  | 18.3  | 19.8 | 19.8 | 36.5 | 16.8   | 16.8 | 34.7 | 17.3 | 17.3 | 28.8 | 26.0 | 26.0 |        |      |
| 300          |      |      | 33.5 |      |      | 49.0 |      |      | 15.6  |        |      | 46.8 |       |      | 13.4  |      |      | 34.5 |        |      | 32.6 |      |      | 28.9 |      |      |        |      |
| 350          |      |      | 36.4 |      |      | 47.6 |      |      | 11.2  |        |      | 45.4 |       |      | 9.0   |      |      | 33.0 |        |      | 31.0 |      |      | 29.0 |      |      |        |      |
| 400          |      |      | 39.0 |      |      | 46.3 |      |      | 7.3   |        |      | 44.1 |       |      | 5.1   |      |      | 31.3 |        |      | 29.3 |      |      | 30.3 |      |      |        |      |
| 500          |      |      | 44.3 |      |      | 43.2 |      |      | -1.1  |        |      | 41.2 |       |      | -3.1  |      |      | 27.3 |        |      | 25.5 |      |      | 31.0 |      |      |        |      |
| 550          |      |      | 44.6 |      |      | 43.1 |      |      | -1.5  |        |      | 41.2 |       |      | -3.5  |      |      | 27.4 |        |      | 25.5 |      |      | 31.0 |      |      |        |      |
| 650          |      |      | 51.3 |      |      | 40.2 |      |      | -11.1 |        |      | 38.4 |       |      | -12.9 |      |      | 22.3 |        |      | 20.4 |      |      | 25.0 |      |      |        |      |