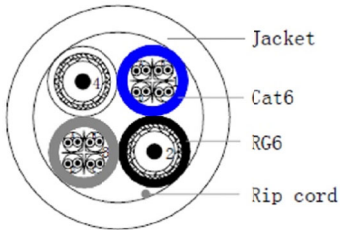


# (2) CAT6E 600MHz UTP Cable + (2) RG-6 Quad Shield Coaxial Cable

## Cable Detail



## Approval



## Description

- Two 4 Pair Cat6E UTP Cable:  
Complies to TIA 568-C.2  
23 AWG Solid Bare Copper Conductor / PE Insulation
- Two RG-6 Quad Shield Coaxial Cable:  
Complies to SCTE ISP-IP-001  
18 AWG Copper Clad Steel (CCS)  
Al foil / 60% Al-Mg alloy Braid Shield +  
Al foil / 40% Al-Mg alloy Braid Shield

## Physical Characteristics

|                               |                                      |
|-------------------------------|--------------------------------------|
| CAT6E UTP LAN CABLE           | For details, please see Attachment 1 |
| RG6 Quad Shield Coaxial Cable | For details, please see Attachment 2 |
| Nominal Weight                | 110 lbs.                             |

## Electrical Characteristics

|                               |                                      |
|-------------------------------|--------------------------------------|
| CAT6E UTP LAN CABLE           | For details, please see Attachment 1 |
| RG6 Quad Shield Coaxial Cable | For details, please see Attachment 2 |

## Mechanical Characteristics

|                          |                        |                   |
|--------------------------|------------------------|-------------------|
| Test Object              |                        | Jacket            |
| Test Material            |                        | PVC               |
| Before                   | Tensile Strength (Mpa) | >=1.034           |
| Aging                    | Elongation (%)         | >=200             |
| Aging Condition (°Cxhrs) |                        | 113.0 ± 1.0 x 168 |
| After                    | Tensile Strength (Mpa) | >=85% of unaged   |
| Aging                    | elongation (%)         | >=50% of unaged   |
| Cold Bend (-20±2°Cx4hrs) |                        | No crack          |


## Cable Marking

2 X CAT6E 600 MHZ + 2 X RG6U/18 AWG QUAD CMR/CATVR  
VERIFIED TO FT4 C(ETL)US XXXXXXXX CATV SWEPT TO 3.0  
GHZ \*\*\*FT

| Part Numbers   | Jacket Color | Package      |
|----------------|--------------|--------------|
| H26E26QMG2-500 | Green        | 500ft / Reel |

# (2) CAT6E 600MHz UTP + (2) RG-6 Quad

## Attachment 1

| Cable Detail  |  |                    |
|---|--|--------------------|
|    |  |                    |
| Description   |  |                    |
| 23 AWG Cat 6E CMR, High-Performance Data Cable  |  |                    |
| Applicable Standards  |  |                    |
| <ul style="list-style-type: none"> <li>• UTP CAT6, 23 AWG 4 Pair w/ HDPE Insulation &amp; Flame-Retardant PVC Jacket</li> <li>• ETL Listed Type CMR</li> <li>• C(ETL) listed CMG FT4</li> <li>• TIA/EIA-568-C.2, UL 1666 CMR RATED</li> <li>• IEC 61156 AND ANSI/TIA-568-C.2</li> <li>• ROHS Compliant</li> <li>• ATM 155 Mbps</li> <li>• Ethernet 10BASE-T, 100BASE-TX, 100BASE-VG, 100BASE-T4</li> <li>• 1000 Mbps 1000BASE-T Gigabit Ethernet™ (IEEE 802.3)</li> <li>• 16 Mbps Token Ring™ (IEEE 802.5)</li> </ul> |  |                    |
|     |  |                    |
| Physical Characteristics  |  |                    |
| Conductor Material  | Solid Annealed Bare Copper                   |                    |
| Number of Conductor Pairs   | 4  |                    |
| Size  | 23 AWG                                       |                    |
| Stranding   | Solid  |                    |
| Insulation Material   | Polyethylene                                 |                    |
| Overall Diameter  | 0.040 in. ± 0.0002 in                        |                    |
| Average Thickness   | 0.0088 in                                    |                    |
| Jacket Material   | Flame Retardant PVC                          |                    |
| Average Wall Thickness  | 0.023 in.                                    |                    |
| Nominal Outer Diameter  | 0.244 in. ± 0.008 in.                        |                    |
| Nominal Weight  | 30 lbs.                                      |                    |
| Shield Material   | Unshielded                                   |                    |
| Ripcord   | Yes  |                    |
| Mechanical Characteristics  |  |                    |
| Temperature Rating  | Installation                                 | 0°C to + 60°C      |
|   | Operating                                    | -20°C to + 75°C    |
| Tensile Strength  | Before                                       | ≥ 13.8 Mpa         |
| Elongation  | Aging  | ≥ 100%             |
|   | Aging Condition                              | 100°C x 168 hours  |
|   |  | After              |
| Aging Condition   | Aging  | ≥ 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>6E04URXX4</b>  | Black, Blue, Green, Grey, Red, White, Yellow | 1000FT / Reelex II |

|  |                     |
|--|---------------------|
| Max. Conductor DC Resistance @ 20°C            | 9.38 Ω / 100 Meters |
| Maximum DC Resistance Unbalanced @ 20°C        | 5%                  |
| Max. Pair-to-Pair Ground Capacitance Unbalance | 330 pF / 100 Meters |
| Characteristic Impedance (1 ~ 350 MHz)         | 100 ± 15 Ω          |
| Mutual Capacitance                             | 5.6 nF / 100 Meters |
| Max. Delay Skew                                | 40 nS / 100 Meters  |
| NVP Nominal Velocity Propagation               | 0.7                 |

### Electrical Performance

| Frequency (MHz) | Attenuation (dB/100m) Max. | Return loss (dB) Min. | NEXT (dB) Min. | PS-NEXT (dB) Min. |
|-----------------|----------------------------|-----------------------|----------------|-------------------|
| 1               | 2.0                        | 20.0                  | 77.3           | 75.3              |
| 4               | 3.8                        | 23.6                  | 68.3           | 66.3              |
| 8               | 5.3                        | 25.4                  | 63.8           | 61.8              |
| 10              | 5.9                        | 26.0                  | 62.3           | 30.3              |
| 16              | 7.4                        | 26.0                  | 59.3           | 57.3              |
| 20              | 8.3                        | 26.0                  | 57.8           | 55.8              |
| 25              | 9.3                        | 25.5                  | 56.3           | 54.3              |
| 31.25           | 10.4                       | 25.0                  | 54.9           | 52.9              |
| 62.5            | 14.9                       | 23.5                  | 50.4           | 48.4              |
| 100             | 19.0                       | 22.5                  | 47.3           | 45.3              |
| 155             | 23.9                       | 21.6                  | 45.8           | 43.5              |
| 200             | 27.4                       | 21.0                  | 42.8           | 40.8              |
| 250             | 30.8                       | 20.5                  | 41.3           | 39.3              |
| 300             | 34.0                       | 20.1                  | 40.2           | 38.2              |
| 350             | 37.0                       | 19.8                  | 39.2           | 37.2              |
| 400             | 39.7                       | 19.5                  | 38.3           | 36.3              |
| 450             | 42.1                       | 19.2                  | 37.5           | 35.5              |
| 500             | 44.9                       | 19.0                  | 36.8           | 34.8              |
| 550             | 47.3                       | 18.6                  | 36.2           | 34.2              |
| 600             | 54.5                       | 18.8                  | 37.6           | 35.6              |
| Frequency (MHz) | ELFEXT (dB/100m) Min.      | PS-ELFEXT (dB) Min.   | ACR (dB) Min.  | PS-ACR (dB) Min.  |
| 1               | 70.8                       | 67.8                  | 75.0           | 73.0              |
| 4               | 58.7                       | 55.7                  | 64.0           | 62.0              |
| 8               | 52.7                       | 49.7                  | 57.7           | 55.7              |
| 10              | 50.8                       | 47.8                  | 55.6           | 53.6              |
| 16              | 46.7                       | 43.7                  | 50.7           | 48.7              |
| 20              | 44.7                       | 41.7                  | 48.2           | 16.2              |
| 25              | 42.8                       | 39.8                  | 45.6           | 13.6              |
| 31.25           | 40.9                       | 37.9                  | 42.8           | 40.8              |
| 62.5            | 34.8                       | 31.8                  | 32.9           | 30.9              |
| 100             | 30.8                       | 27.8                  | 24.9           | 22.9              |
| 155             | 27.0                       | 23.6                  | 21.0           | 21.5              |
| 200             | 24.7                       | 21.7                  | 18.4           | 16.4              |
| 250             | 22.8                       | 19.8                  | 13.5           | 11.5              |
| 300             | 21.2                       | 18.2                  | 9.6            | 5.0               |
| 350             | 19.9                       | 16.9                  | 5.2            | 3.2               |
| 400             | 18.7                       | 15.7                  | 1.5            | -                 |
| 450             | 17.7                       | 14.7                  | -              | -                 |
| 500             | 16.8                       | 13.8                  | -              | -                 |
| 550             | 15.9                       | 12.9                  | -              | -                 |
| 600             | 15.9                       | 12.9                  | 17.2           | 14.2              |

\* Values above 250MHz are information only.

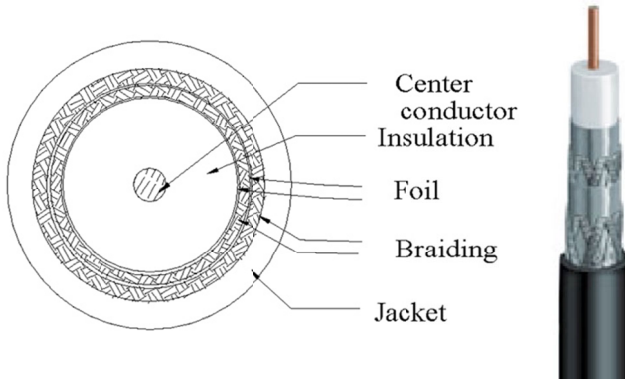
### Cable Marking

CATEGORY 6E 600MHZ 23AWG 4 PR UTP XXXXXX CMR C(ETL)US FT4  
ETL LISTED & VERIFIED TO TIA/EIA-568-C.2 \*\*\*\*FT

### Electrical Characteristics

# (2) CAT6E 600MHz UTP + (2) RG-6 Quad Attachment 2

## Cable Detail



## Electrical Characteristics

|                         |                    |
|-------------------------|--------------------|
| Temperature Rating      | -20 to 60 (°C)     |
| Impedance               | 75 (± 3.0 Ohms)    |
| Capacitance             | 15.5 (pF/ft.)      |
| Conductor DCR@20°C      | 28.6 (ohms/1000ft) |
| Velocity of Propagation | 84 (%)             |
| RoHS Compliant          | Yes                |

## Electrical Performance

| Frequency (MHz) | Attenuation (dB/100m) | Frequency (MHz) | Attenuation (dB/100m) |
|-----------------|-----------------------|-----------------|-----------------------|
| 10              | 2.90                  | 1000            | 22.00                 |
| 50              | 5.25                  | 1200            | 24.60                 |
| 100             | 7.20                  | 1450            | 27.20                 |
| 200             | 9.84                  | 1800            | 30.50                 |
| 400             | 14.10                 | 2200            | 32.80                 |
| 700             | 19.00                 | 2400            | 32.83                 |
| 900             | 21.00                 | 3000            | 37.88                 |

## Approval



## Applicable Standards

- RG-6/U QUAD CMR CATV 75 Ω Coaxial Cable
- Reference Standard  
SCTE IPS-SP-001 / UL 1655, UL 13, UL 444, RoHS

## Physical Characteristics

|                     |          |                   |
|---------------------|----------|-------------------|
| Conductor           | Solid    | Copper Clad Steel |
| AWG                 |          | 18                |
| Diameter            | (inches) | 0.040             |
| Insulation Material |          | Foam PE           |
| Nominal Thickness   | (inches) | 0.073             |
| Insulation Diameter | (inches) | 0.186             |
| First Braid Shield  |          | Aluminum          |
| Coverage Area       | (%)      | 60                |
| Second Braid Shield |          | Aluminum          |
| Coverage Area       | (%)      | 40                |
| Jacket Material     |          | FR-PVC            |
| Nominal Thickness   | (inches) | 0.0255            |
| Cable Diameter      | (inches) | 0.2968            |
| Nominal Weight      | 500 ft.  | 18 lbs.           |
|                     | 1000 ft. | 35 lbs.           |

## Cable Marking

RG6/U QUAD SHIELD 18AWG CMR FT4 XXXXXX VERIFIED TO C(ETL)US CATV SWEEP TO 3.0 GHZ \*\*\*\*FT

| Part Numbers | Jacket Color | Package          |
|--------------|--------------|------------------|
| RG6QRBK4-500 | Black        | 500ft / Pullbox  |
| RG6QRBK4     | Black        | 1000ft / Pullbox |
| RG6QRBK2     | Black        | 1000ft / Reel    |
| RG6QRWH4-500 | White        | 500ft / Pullbox  |
| RG6QRWH4     | White        | 1000ft / Pullbox |
| RG6QRWH2     | White        | 1000ft / Reel    |