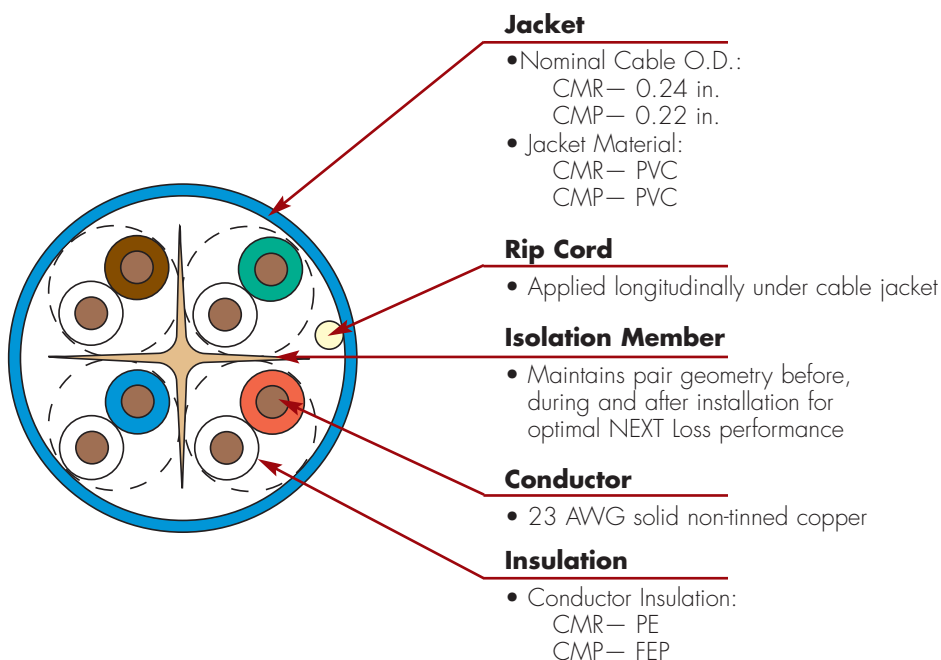
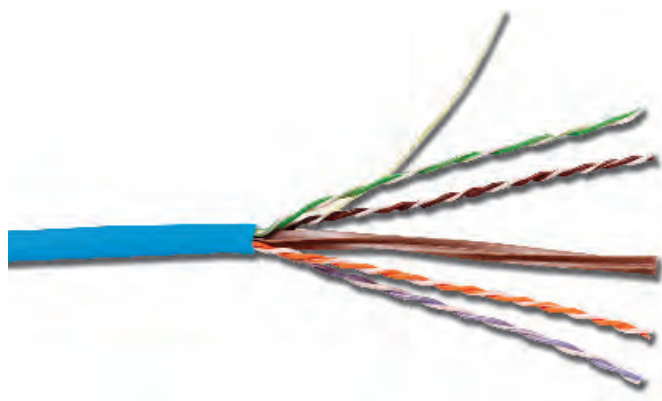


# PREMIUM 6 UTP CABLE - US

Siemon's Premium 6 cable provides performance exceeding category 6 transmission levels for both ANSI/TIA-568-C.2 and ISO/IEC 11801 industry standards. Combine our high performance category 6 connectivity with Premium 6 cable and the result is a system with superior electrical performance. The additional headroom above industry standard transmission levels provides a high level of immunity to installation variables ensuring reliable application support over the life of your cabling system.



CABLE — US



## HIGHLIGHTS

- Transmission performance verified by UL
- Reverse sequential length markings
- Round jacket
- Center isolation member
- Jacket material is lead free
- Supports any application designed for category 6 or lower cabling

## PACKAGING

- 1000 ft. reel in a box
- Weight  
CMR— 34 lbs/1000 ft.  
CMP— 35 lbs/1000 ft.

## COMPLIANCE

- ISO/IEC 11801: 2002 (Category 6)
- ANSI/TIA-568-C.2 (Category 6)
- IEC 61156-5:2002 (Category 6)
- c(UL)us CMP and CSA FT6
- c(UL)us CMR and CSA FT4
- 10BASE-T
- 100BASE-T
- 1000BASE-T

# PRODUCT INFORMATION

## ELECTRICAL SPECIFICATIONS

|                                 |                                                        |
|---------------------------------|--------------------------------------------------------|
| DC Resistance                   | <9.38 $\Omega$ /100m                                   |
| DC Resistance Unbalance         | 3%                                                     |
| Mutual Capacitance              | 5.6 nF/100m                                            |
| Capacitance Unbalance           | <330 pF/100m                                           |
| Characteristic Impedance (ohms) | 1-100 MHz: 100 $\pm$ 15%<br>101-250 MHz: 100 $\pm$ 20% |
| NVP                             | CMP—70% CMR—68%                                        |
| TCL                             | 30-10 log(f/100) dB                                    |
| Delay Skew                      | $\leq$ 25ns                                            |

## PHYSICAL PROPERTIES

|                          | CMP                       | CMR                       |
|--------------------------|---------------------------|---------------------------|
| Pulling Tension (max)    | 110N (25 lbf)             | 110N (25 lbf)             |
| Bend Radius (min)        | 22.9mm (0.9 in.)          | 35.6mm (1.4 in.)          |
| Installation Temperature | 0 to 60°C (+32 to 140°F)  | 0 to 60°C (+32 to 140°F)  |
| Storage Temperature      | -20 to 75°C (-4 to 167°F) | -20 to 75°C (-4 to 167°F) |
| Operating Temperature    | -20 to 60°C (-4 to 140°F) | -20 to 60°C (-4 to 140°F) |

## TRANSMISSION PERFORMANCE

GUARANTEED WORST CASE  SIEMON TYPICAL

| Frequency (MHz) | Insertion Loss (dB) |      | NEXT (dB) |       | PSNEXT (dB) |      | ACR (dB) |       | PSACR (dB) |      | ACR-F (dB) |      | PSACR-F (dB) |      | Return Loss (dB) |      | Propagation Delay (ns) |     |
|-----------------|---------------------|------|-----------|-------|-------------|------|----------|-------|------------|------|------------|------|--------------|------|------------------|------|------------------------|-----|
| 1               | 2.0                 | 1.7  | 81.3      | 103.8 | 79.3        | 98.6 | 79.3     | 102.2 | 77.3       | 96.9 | 74.8       | 94.0 | 71.8         | 88.9 | 20.0             | 29.5 | 570                    | 491 |
| 4               | 3.7                 | 3.4  | 72.3      | 94.8  | 70.3        | 87.6 | 68.6     | 91.3  | 66.6       | 84.2 | 62.7       | 82.2 | 59.7         | 77.0 | 23.0             | 34.8 | 552                    | 486 |
| 10              | 5.8                 | 5.5  | 66.3      | 85.2  | 64.3        | 78.8 | 60.5     | 79.7  | 58.5       | 73.3 | 54.8       | 74.6 | 51.8         | 69.3 | 25.0             | 35.3 | 545                    | 481 |
| 16              | 7.3                 | 7.0  | 63.2      | 85.8  | 61.2        | 78.2 | 55.9     | 78.8  | 53.9       | 71.2 | 50.7       | 71.0 | 47.7         | 65.6 | 25.0             | 36.8 | 543                    | 480 |
| 20              | 8.2                 | 7.9  | 61.8      | 82.5  | 59.8        | 75.7 | 53.6     | 74.7  | 51.6       | 67.8 | 48.7       | 69.3 | 45.7         | 64.0 | 25.0             | 36.6 | 542                    | 480 |
| 31.25           | 10.4                | 9.9  | 58.9      | 82.2  | 56.9        | 74.2 | 48.5     | 72.3  | 46.5       | 64.3 | 44.9       | 66.8 | 41.9         | 61.2 | 23.6             | 36.6 | 540                    | 479 |
| 62.5            | 14.9                | 14.2 | 54.4      | 74.3  | 52.4        | 66.0 | 39.4     | 60.1  | 37.4       | 51.9 | 38.8       | 62.2 | 35.8         | 57.0 | 21.5             | 34.6 | 539                    | 478 |
| 100             | 19.2                | 18.3 | 51.3      | 70.8  | 49.3        | 62.9 | 32.1     | 52.5  | 30.1       | 44.6 | 34.8       | 56.1 | 31.8         | 49.3 | 20.1             | 39.9 | 538                    | 477 |
| 160             | 24.8                | 23.6 | 48.2      | 70.0  | 46.2        | 63.4 | 23.4     | 46.4  | 21.4       | 39.9 | 30.7       | 49.8 | 27.7         | 42.3 | 18.7             | 33.4 | 537                    | 477 |
| 200             | 28.1                | 26.4 | 46.8      | 70.0  | 44.8        | 63.2 | 18.7     | 43.6  | 16.7       | 36.8 | 28.7       | 48.9 | 25.7         | 41.4 | 18.0             | 32.2 | 537                    | 477 |
| 250             | 31.9                | 30.5 | 45.3      | 67.5  | 43.3        | 59.6 | 13.5     | 37.0  | 11.5       | 29.1 | 26.8       | 48.0 | 23.8         | 40.3 | 17.3             | 33.4 | 536                    | 477 |
| 300*            | 35.3                | 33.8 | 44.1      | 67.1  | 42.1        | 58.9 | 8.8      | 33.3  | 6.8        | 25.1 | 25.2       | 48.1 | 22.2         | 42.0 | 16.8             | 33.1 | 536                    | 477 |
| 400*            | 41.7                | 39.8 | 42.3      | 63.4  | 40.3        | 55.2 | 0.6      | 23.6  | -1.4       | 15.4 | 22.7       | 43.4 | 19.7         | 37.3 | 15.9             | 31.2 | 536                    | 477 |
| 500*            | 47.5                | 45.0 | 40.8      | 58.0  | 38.8        | 50.3 | -6.7     | 13.0  | -8.7       | 5.3  | 20.8       | 41.0 | 17.8         | 33.3 | 15.2             | 28.7 | 536                    | 476 |
| 550*            | 50.2                | 47.8 | 40.2      | 57.2  | 38.2        | 51.1 | -10.0    | 9.4   | -12.0      | 3.3  | 19.9       | 38.3 | 16.9         | 33.1 | 14.9             | 31.0 | 536                    | 476 |
| 600*            | 52.9                | 50.3 | 39.6      | 57.5  | 37.6        | 50.2 | -13.2    | 7.2   | -15.2      | -0.1 | 19.2       | 36.5 | 16.2         | 30.6 | 14.7             | 30.0 | 535                    | 477 |

\*Values for frequencies above industry requirements are for information only

All performance based on 100 meters (328 ft.).

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

### Premium 6 Plenum 4-Pair UTP Cable (CMP, CSA Type FT6):

9C6P4-E4-(XX)-RBA\* .....Plenum, 1000 ft. Reel-In-Box

### Premium 6 Riser 4-Pair UTP Cable (CMR, CSA Type FT4):

9C6R4-E4-(XX)-RBA\* .....Riser, 1000 ft. Reel-In-Box

Use (XX) to specify jacket color: 02 = white\*, 03 = red, 04 = gray, 05 = yellow, 06 = blue\*, 07 = green

\*Cable colors highlighted in red indicate FOCUS products which are readily available. Other colors may have extended lead times and minimum purchase requirements.

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