

PRODUCT SPECIFICATIONS
CAT6 DIRECT BURIAL GEL FILLED CMX U/UTP 550 MHz

COMPLIANCE

RoHS

CERTIFICATIONS

TIA 568-C.2 Category 6 ISO/IEC 11801

PHYSICAL SPECIFICATIONS

Cable Construction 23 AWG U/UTP x 4P

Conductor Material Solid Bare Copper

Insulating Material Type HDPE

Insulation Diameter Ø 1.06 ± 0.05 mm

Number of Insulations 4 Pair

| | | |
|--------------------|----|-----------------------|
| PAIR COLORS | P1 | White- Blue/ Blue |
| | P2 | White- Orange/ Orange |
| | P3 | White- Green/ Green |
| | P4 | White- Brown/ Brown |

Jacket Material LDPE

Jacket Diameter Ø 6.9 ± 0.2 mm

Jacket Thickness 0.6 ± 0.1 mm

Jacket Flame Rate CMX

Rip Cord Nylon

MECHANICAL CHARACTERISTICS

Cable under the minimum tension ≥ 400N

Conductor Elongation ≥ 15%

JACKET

| | | |
|--------|------------------|-----------|
| Unaged | Tensile Strength | ≥ 9.7 Mpa |
| | Elongation | ≥ 350% |

| | | |
|------|------------------|-----------|
| Aged | Tensile Strength | ≥ 7.3 Mpa |
| | Elongation | ≥ 263% |

ELECTRICAL CHARACTERISTICS

Impedance 1-250 MHz 100±15 (Ohms)

Overall Temp. Rating 75° C

DC Resistance Unbalance Max. 2.5%

DC Resistance 20° C 87 (Ohms/Km)

Pair-to-Ground Capacitance Unbalance 330 (pF/100M)

Insulation Resistance >5000MΩ*Km

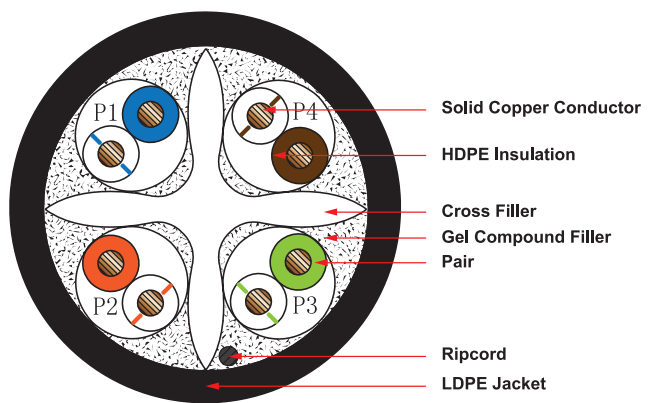
Dielectric Strength DC 2500V 2S

NOMINAL TRANSMISSION CHARACTERISTICS

| FREQUENCY (MHz) | RETURN LOSS (dB) | ATTENUATION (dB/100M) | NEXT (dB) | PSNEXT (dB) |
|-----------------|------------------|-----------------------|-----------|-------------|
| 1 | 20.0 | 2.0 | 74 | 72 |
| 4 | 23.0 | 3.8 | 65 | 63 |
| 10 | 25.0 | 6.0 | 59 | 57 |
| 16 | 25.0 | 7.6 | 56 | 54 |
| 20 | 25.0 | 8.5 | 55 | 53 |
| 31.25 | 23.6 | 10.7 | 52 | 50 |
| 62.5 | 21.5 | 15.4 | 47 | 45 |
| 100 | 20.1 | 19.8 | 44.3 | 42.3 |
| 200 | 18.0 | 29.0 | 39.7 | 37.7 |
| 250 | 17.3 | 32.8 | 38 | 36 |
| 300 | 17.3 | 36.61 | 38.14 | 35.14 |
| 350 | 17.3 | 39.98 | 37.14 | 34.14 |
| 400 | 17.3 | 43.17 | 35.3 | 33.3 |
| 450 | 17.3 | 46.22 | 35.14 | 32.65 |
| 500 | 17.3 | 49.16 | 34.82 | 31.82 |
| 550 | 17.3 | 51.40 | 33.97 | 31.07 |

NOTE: The above transmission performance for the 100M, 20±2° C under the conditions tested

| ITEM # | JACKET TYPE | AVAILABLE COLOR | AVAILABLE PUT-UPS |
|-------------|-------------|-----------------|-------------------|
| MBW6U-03676 | CMX | Black | 1000 ft. Spool |



CABLE MARKING

VERICOM VERIMAX 23 AWG 4P 75° C CAT6 U/UTP GEL FILLED TIA-568-C.2 ROHS COMPLIANT 0000FT USED / 0000FT REMAINING

NOTE: TECHNICAL SPECS AND IMAGES ARE SUBJECT TO CHANGE WITHOUT NOTICE.

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