

TRANSMISSION PROPERTIES AND ELECTRICAL SPECIFICATIONS

| FREQ. | Insertion Loss | | NEXT | | PS NEXT | | ACR-F | | PS ACR-F | | RL | | TCL | EL TCTL |
|--------|----------------|------|------|------|---------|------|---------|------|----------|------|-----|------|------|---------|
| MHz | dB/100m | | dB | | dB | | dB/100m | | dB/100m | | dB | | dB | dB |
| | Nom | Max | Nom | Min | Nom | Min | Nom | Min | Nom | Min | Nom | Min | Min | Min |
| 1.00 | 1.65 | 2.0 | 84.3 | 74.3 | 82.3 | 72.3 | 80 | 67.8 | 77 | 64.8 | 25 | 20.0 | 40 | 35 |
| 10.00 | 5.6 | 6.0 | 69.3 | 59.3 | 67.3 | 57.3 | 65 | 47.8 | 62 | 44.8 | 30 | 25.0 | 40 | 15 |
| 25.00 | 9.0 | 9.5 | 63.3 | 53.3 | 61.3 | 51.3 | 57 | 39.8 | 54 | 36.8 | 30 | 24.3 | 36 | 7.0 |
| 31.25 | 10.2 | 10.7 | 61.9 | 51.9 | 59.9 | 49.9 | 53 | 37.9 | 50 | 34.9 | 28 | 23.6 | 35.1 | 5.5 |
| 62.50 | 14.9 | 15.4 | 57.4 | 47.4 | 55.4 | 45.4 | 45 | 31.9 | 43 | 28.9 | 27 | 21.5 | 32 | NS |
| 100.00 | 19.2 | 19.8 | 54.3 | 44.3 | 52.3 | 42.3 | 43 | 27.8 | 40 | 24.8 | 26 | 20.1 | 30 | NS |
| 200.00 | 27.5 | 29.0 | 49.8 | 39.8 | 47.8 | 37.8 | 40 | 21.8 | 37 | 18.8 | 25 | 18.0 | 27 | NS |
| 250.00 | 31.0 | 32.8 | 48.3 | 38.3 | 46.3 | 36.3 | 37 | 19.8 | 34 | 16.8 | 25 | 17.3 | 26 | NS |

| | |
|---------------------------------|---|
| Input Impedance | 100±15 Ohm @1-100 MHz 100±20 Ohm @100-160 MHz 100±22 Ohm @160-250 MHz |
| DC Resistance | 80 Ohm/km max. |
| Resistance Unbalance | 2% max. |
| Capacitance | 50 pF/m nom. @ 1 kHz |
| Cap. Unbalance (Wire to Ground) | 1500 pF/Km max. @ 1 KHz. |
| TCL | 30-10Log(f/100) dB min. @ 1-250 MHz, 40dB min. |
| EL-TCTL | 35-20Log(f) dB min. @ 1-30 MHz |
| Voltage rating | 75 Vac max |
| Dielectric strength | 1700 Volts ac for 2 seconds. |
| Velocity of Propagation (NVP) | 67% nom @ 100MHz. |
| Insulation Resistance | 500 MegaOhm•Km min. @ 500 Vdc |
| Propagation Delay | 534 + 36/f ^{1/2} nS/100m max. |
| Propagation Delay Skew | 45 nS/100m max. |
| Coupling attenuation | IEC 61156-5 Type III |

ORDERING INFORMATION

| HCS P/N | Description | OD mm | Weight kg/km | Packaging | Notes |
|--------------|-----------------------------------|----------|--------------|-------------------|-------|
| H06-F0402-FK | 4x2x23# U/UTP CAT 6 LSOH Gray | 5.8 | 38 | 305 m Reel in box | - |
| H06-F0402-DP | 4x2x23# U/UTP CAT 6 LSOH Gray | 5.8 | 38 | 500m Drum | - |
| H06-F0402-DM | 4x2x23# U/UTP CAT 6 LSOH Gray | 5.8 | 38 | 1000m Drum | - |
| H06-F0804-DP | 2x(4x2x23#) CAT 6 U/UTP LSOH Gray | 5.8x11.6 | 76 | 500m Drum | FIG-8 |
| H06-F0804-DM | 2x(4x2x23#) CAT 6 U/UTP LSOH Gray | 5.8x11.6 | 76 | 1000m Drum | FIG-8 |

Flame Test Conformance F=0: IEC 60332-1 F=C: IEC 60332-3-24 F=D: IEC 60332-3-25

Note: Standard Jacket Color: Light Gray RAL 7035. Other colors available upon request.