

TRANSMISSION PROPERTIES AND ELECTRICAL SPECIFICATIONS

| FREQ.  | Insertion Loss |      |      | NEXT |      |      | PS NEXT |      |      | EL FEXT |     |      | PS EL FEXT |     |      | RL   |     |      | TCL  | EL<br>TCL |
|--------|----------------|------|------|------|------|------|---------|------|------|---------|-----|------|------------|-----|------|------|-----|------|------|-----------|
| MHz    | dB/100m        |      |      | dB   |      |      | dB      |      |      | dB/100m |     |      | dB/100m    |     |      | dB   |     |      | dB   | dB        |
|        | Max            | Nom  | std  | Min  | Nom  | std  | Min     | Nom  | std  | Min     | Nom | std  | Min        | Nom | std  | Min  | Nom | Std  | Min  | Min       |
| 1.00   | 2.0            | 1.65 | 2.0  | 77.3 | 80.0 | 74.3 | 75.3    | 77.0 | 72.3 | 70.8    | 80  | 67.8 | 68.8       | 77  | 64.8 | 20.0 | 25  | 20.0 | 40   | 35        |
| 10.00  | 5.9            | 5.6  | 6.0  | 61.3 | 80.0 | 59.3 | 60.3    | 77.0 | 57.3 | 50.8    | 65  | 47.8 | 48.8       | 62  | 44.8 | 26.0 | 30  | 25.0 | 40   | 15        |
| 25.00  | 9.4            | 9.0  | 9.5  | 56.3 | 80.0 | 53.3 | 54.3    | 77.0 | 51.3 | 42.8    | 57  | 39.8 | 40.8       | 54  | 36.8 | 25.3 | 30  | 24.3 | 36   | 7.0       |
| 31.25  | 10.6           | 10.2 | 10.7 | 54.9 | 80.0 | 51.9 | 52.9    | 77.0 | 49.9 | 40.9    | 53  | 37.9 | 38.9       | 50  | 34.9 | 24.6 | 28  | 23.6 | 35.1 | 5.5       |
| 62.50  | 15.2           | 14.9 | 15.4 | 50.4 | 75.0 | 47.4 | 48.4    | 72.0 | 45.4 | 34.9    | 45  | 31.9 | 32.9       | 43  | 28.9 | 22.5 | 27  | 21.5 | 32   | NS        |
| 100.00 | 19.6           | 19.2 | 19.8 | 47.3 | 72.0 | 44.3 | 45.3    | 69.0 | 42.3 | 30.8    | 43  | 27.8 | 28.8       | 40  | 24.8 | 21.1 | 26  | 20.1 | 30   | NS        |
| 200.00 | 28.7           | 27.5 | 29.0 | 42.8 | 68.0 | 39.8 | 40.8    | 65.0 | 37.8 | 24.8    | 40  | 21.8 | 22.8       | 37  | 18.8 | 19.0 | 25  | 18.0 | 27   | NS        |
| 250.00 | 32.6           | 31.0 | 32.8 | 41.3 | 63.0 | 38.3 | 39.3    | 60.0 | 36.3 | 22.8    | 37  | 19.8 | 20.8       | 34  | 16.8 | 18.3 | 25  | 17.3 | 26   | NS        |

|                                 |   |
|---------------------------------|---|
| Characteristic Impedance        | 100±6 Ohm @ 1-250 MHz                               |
| Resistance Unbalance            | 2% max.   |
| Capacitance                     | 45 pF/m nom. @ 1 KHz                                |
| Cap. Unbalance (Wire to Ground) | 1500 pF/Km max. @ 1 KHz.                            |
| Voltage Rating                  | 72 Vdc max.   |
| Dielectric Strength             | 1500 Volts/1 minute min rms                         |
| Velocity of Propagation (NVP)   | 78-80%  |
| Propagation Delay               | 514 + 36/f/2 nS/100m max @ 1-250 MHz                |
| Propagation Delay Skew          | 25 nS/100m max @ 1-250 MHz                          |
| Insulation Resistance           | 5000 MegaOhm•Km min. @ 500 Vdc                      |
| Coupling Attenuation            | 85 dB min @ 30-100 MHz 55-20Log(f/100) @100-250 MHz |
| Transfer Impedance              | 10 mOhm/m max @ 1-10 MHz 30 mOhm/m max @ 30 MHz     |

ORDERING INFORMATION

| HCS P/N      | Description                       | OD mm    | Weight Kg/Km | Cal. Value Kj/m | Packaging  | Notes |
|--------------|-----------------------------------|----------|--------------|-----------------|------------|-------|
| H06-F0431-DP | 4x2x23# U/FTP CAT 6 PVC Gray      | 6.8      | 47           | 600             | 500m Drum  | -     |
| H06-F0431-DM | 4x2x23# U/FTP CAT 6 PVC Gray      | 6.8      | 47           | 600             | 1000m Drum | -     |
| H06-F0432-DP | 4x2x23# U/FTP CAT 6 LSOH Gray     | 6.8      | 47           | 605             | 500m Drum  | -     |
| H06-F0432-DM | 4x2x23# U/FTP CAT 6 LSOH Gray     | 6.8      | 47           | 605             | 1000m Drum | -     |
| H06-F0833-DP | 2x(4x2x23#) U/FTP CAT 6 PVC Gray  | 6.8x13.7 | 94           | 1200            | 500m Drum  | FIG-8 |
| H06-F0833-DM | 2x(4x2x23#) U/FTP CAT 6 PVC Gray  | 6.8x13.7 | 94           | 1200            | 1000m Drum | FIG-8 |
| H06-F0834-DP | 2x(4x2x23#) U/FTP CAT 6 LSOH Gray | 6.8x13.7 | 94           | 1210            | 500m Drum  | FIG-8 |
| H06-F0834-DM | 2x(4x2x23#) U/FTP CAT 6 LSOH Gray | 6.8x13.7 | 94           | 1210            | 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.