

TRANSMISSION PROPERTIES AND ELECTRICAL SPECIFICATIONS

| FREQ. | Insertion Loss | | NEXT | | PS NEXT | | EL FEXT | | PS EL FEXT | | RL | | (SKEW) | (Prop. Delay) | TCL |
|--------|----------------|------|------|-----|---------|-----|---------|-----|------------|-----|------|-----|---------|---------------|------|
| MHz | dB/100m | | dB | | dB | | dB/100m | | dB/100m | | dB | | nS/100m | nS/100m | dB |
| | Max | Nom | Min | Nom | Min | Nom | Min | Nom | Min | Nom | Min | Nom | Max | Max | Min |
| 1.00 | 2.0 | 1.8 | 65.3 | 90 | 62.3 | 86 | 63.8 | 90 | 60.8 | 87 | 20.0 | 30 | 40.0 | 550 | 40.0 |
| 4.00 | 4.1 | 3.7 | 56.3 | 75 | 53.3 | 71 | 51.7 | 80 | 48.7 | 77 | 23.3 | 35 | 40.0 | 532 | 34.0 |
| 8.00 | 5.8 | 5.3 | 51.8 | 70 | 48.8 | 66 | 45.7 | 75 | 42.7 | 72 | 25.0 | 35 | 40.0 | 527 | 31.0 |
| 10.00 | 6.5 | 6.0 | 50.3 | 67 | 47.3 | 63 | 43.8 | 70 | 40.8 | 67 | 25.5 | 35 | 40.0 | 525 | 30.0 |
| 16.00 | 8.2 | 7.6 | 47.3 | 65 | 44.3 | 61 | 39.7 | 65 | 36.7 | 62 | 25.5 | 40 | 40.0 | 523 | 28.0 |
| 25.00 | 10.4 | 9.6 | 44.3 | 63 | 41.3 | 59 | 35.8 | 60 | 32.8 | 57 | 25.5 | 40 | 40.0 | 521 | 26.0 |
| 31.25 | 11.7 | 10.7 | 42.9 | 60 | 39.9 | 56 | 33.9 | 55 | 30.9 | 52 | 24.4 | 40 | 40.0 | 520 | 25.1 |
| 62.50 | 17.0 | 15.3 | 38.4 | 58 | 35.4 | 54 | 27.8 | 50 | 24.8 | 47 | 22.7 | 35 | 40.0 | 519 | 22.0 |
| 100.00 | 22.0 | 19.8 | 35.3 | 53 | 32.3 | 49 | 23.8 | 45 | 20.8 | 42 | 21.5 | 35 | 40.0 | 518 | 20.0 |
| 200.00 | 30.2 | 28.5 | 30.8 | 50 | 27.8 | 46 | 17.7 | 40 | 14.7 | 37 | 19.0 | 30 | 40.0 | 517 | 17.0 |
| 250.00 | 34.0 | 33.0 | 29.3 | 47 | 26.3 | 43 | 15.8 | 35 | 12.8 | 32 | 18.4 | 30 | 40.0 | 516 | 16.0 |

| | |
|---------------------------------|--------------------------------|
| Characteristic Impedance | 100±6 Ohm @ 1-100 MHz. |
| Resistance Unbalance | 2% max. |
| Capacitance | 47 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) | 67-69% |
| Insulation Resistance | 5000 MegaOhm•Km min. @ 500 Vdc |
| Coupling Attenuation | 65 dB min @ 30-100 MHz |
| Transfer Impedance | 30 mOhm/m max. @ 1-30 MHz |

ORDERING INFORMATION

| HCS P/N | Description | OD mm | Weight Kg/Km | Cal. Value Kj/m | Packaging | Notes |
|--------------|-------------------------------------|----------|--------------|-----------------|------------|-------|
| H5E-00421-DP | 4x2x24# SF/UTP CAT 5E PVC Gray | 6.1 | 41 | 520 | 500m Drum | - |
| H5E-00421-DM | 4x2x24# SF/UTP CAT 5E PVC Gray | 6.1 | 41 | 520 | 1000m Drum | - |
| H5E-00422-DP | 4x2x24# SF/UTP CAT 5E LSOH Gray | 6.1 | 41 | 523 | 500m Drum | - |
| H5E-00422-DM | 4x2x24# SF/UTP CAT 5E LSOH Gray | 6.1 | 41 | 523 | 1000m Drum | - |
| H5E-00823-DP | 2x(4x2x24#) CAT 5E SF/UTP PVC Gray | 6.1x12.2 | 82 | 1050 | 500m Drum | FIG-8 |
| H5E-00823-DM | 2x(4x2x24#) CAT 5E SF/UTP PVC Gray | 6.1x12.2 | 82 | 1050 | 1000m Drum | FIG-8 |
| H5E-00824-DP | 2x(4x2x24#) CAT 5E SF/UTP LSOH Gray | 6.1x12.2 | 82 | 1055 | 500m Drum | FIG-8 |
| H5E-00824-DM | 2x(4x2x24#) CAT 5E SF/UTP LSOH Gray | 6.1x12.2 | 82 | 1055 | 1000m Drum | FIG-8 |

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