

**TRANSMISSION PROPERTIES AND ELECTRICAL SPECIFICATIONS**

FREQ.	Insertion Loss			NEXT			PS NEXT			EL FEXT			PS EL FEXT			RL			TCL	EL 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 <sup>1/2</sup> 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 85-20Log(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	Packaging	Notes
H06-00439-DK	4x2x23# U/FTP CAT 6 Outdoor Black	9.3	72	300m Drum	-
H06-00439-DP	4x2x23# U/FTP CAT 6 Outdoor Black	9.3	72	500m Drum	-
H06-00439-DM	4x2x23# U/FTP CAT 6 Outdoor Black	9.3	72	1000m Drum	-

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