

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	84.3	74.3	75.3	82.3	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	69.3	59.3	60.3	67.3	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	63.3	53.3	54.3	61.3	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	61.9	51.9	52.9	59.9	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	57.4	47.4	48.4	55.4	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	54.3	44.3	45.3	52.3	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	49.8	39.8	40.8	47.8	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	48.3	38.3	39.3	46.3	36.3	22.8	37	19.8	20.8	34	16.8	18.3	25	17.3	26	NS
300.00	36.1	34.6	NS	40.1	43.0	NS	38.1	40.0	NS	21.3	32	NS	19.3	29	NS	17.8	25	NS	NS	NS

Characteristic Impedance	100±6 Ohm @ 1-250 MHz
DC Resistance	93.0 Ohm/Km max.
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)	67-69%
Propagation Delay	514 + 36/f <sup>1/2</sup> nS/100m max @ 1-300 MHz
Propagation Delay Skew	45 nS/100m max @ 1-300 MHz
Insulation Resistance	5000 MegaOhm•Km min. @ 500 Vdc
Coupling Attenuation	IEC 61156-5 Type III
Transfer Impedance	N/A

ORDERING INFORMATION

HCS P/N	Description	OD mm	Weight Kg/Km	Cal. Value Kj/m	Packaging	Notes
HS6-00401-BK	4x2x24# U/UTP CAT 6 PVC Grey	5.5	31	580	305m Reelex II™	-
HS6-00401-FK	4x2x24# U/UTP CAT 6 PVC Grey	5.5	31	580	305m Reel-in-box	-
HS6-00401-DP	4x2x24# U/UTP CAT 6 PVC Grey	5.5	31	580	500m Drum	-
HS6-00401-DM	4x2x24# U/UTP CAT 6 PVC Grey	5.5	31	580	1000m Drum	-
HS6-00402-FK	4x2x24# U/UTP CAT 6 LSOH Grey	5.5	31	585	305m Reel-in-box	-
HS6-00402-DP	4x2x24# U/UTP CAT 6 LSOH Grey	5.5	31	585	500m Drum	-
HS6-00402-DM	4x2x24# U/UTP CAT 6 LSOH Grey	5.5	31	585	1000m Drum	-