

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	48.8	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	25.0	35	40.0	525	30.0
16.00	8.2	7.6	47.3	65	44.3	61	39.7	65	36.7	62	25.0	40	40.0	523	28.0
25.00	10.4	9.6	44.3	63	41.3	59	35.8	60	32.8	57	25.0	40	40.0	521	26.0
31.25	11.7	10.7	42.9	60	39.9	56	33.9	55	30.9	52	24.1	40	40.0	520	25.1
62.50	17.0	15.3	38.4	58	35.4	54	27.8	50	24.8	47	22.0	35	40.0	519	22.0
100.00	22.0	19.8	35.3	53	32.3	49	23.8	45	20.8	42	20.6	35	40.0	518	20.0

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
Dielectric Strength	1500 Volts/1 minute min rms
Velocity of Propagation (NVP)	67-69%
Insulation Resistance	5000 MegaOhm•Km min. @ 500 Vdc
Coupling Attenuation	55 dB min @ 30-100 MHz
Transfer Impedance	50 mOhm/m max. @ 1-30 MHz

ORDERING INFORMATION

HCS P/N	Description	OD mm	Weight Kg/Km	Packaging	Notes
H5E-00481-DP	4x2x24# F/UTP CAT 5E Outdoor Black	7.5	74	500m Drum	-
H5E-00481-DM	4x2x24# F/UTP CAT 5E Outdoor Black	7.5	74	1000m Drum	-
H5E-00481-DR	4x2x24# F/UTP CAT 5E Outdoor Black	7.5	74	2000m Drum	-
H5E-00481-DT	4x2x24# F/UTP CAT 5E Outdoor Black	7.5	74	3000m Drum	-