

TRANSMISSION PROPERTIES AND ELECTRICAL SPECIFICATIONS

FREQ.	Insertion Loss		NEXT		PS NEXT		EL FEXT		PS EL FEXT		RL		(SKEW)	Delay	TCL	EL TCL
MHz	dB/100m		dB		dB		dB/100m		dB/100m		dB		nS/100m	nS/100m	dB	dB
	Max	Nom	Min	Nom	Min	Nom	Min	Nom	Min	Nom	Min	Nom	Max	Max	Min	Min
1.00	2.0	1.7	74.3	82	72.3	79	67.8	75	64.8	72	20.0	28	30	570	40.0	35.0
10.00	5.9	5.4	59.3	79	57.3	76	47.8	70	44.8	67	25.0	32	30	545	40.0	15.0
20.00	8.3	7.5	54.8	75	52.8	72	41.8	60	38.8	57	25.0	33	30	542	37.0	9.0
25.00	9.3	8.4	53.3	73	51.3	70	39.8	58	36.8	55	24.3	33	30	541	36.0	7.0
30.00	10.2	9.5	52.1	72	50.1	69	38.3	55	35.3	52	23.8	33	30	541	35.2	5.5
62.50	14.9	13.5	47.4	70	45.4	67	31.9	48	28.9	45	21.5	35	30	539	32.0	NS
100.00	19.0	17.5	44.3	65	42.3	62	27.8	46	24.8	43	20.1	34	30	538	30.0	NS
200.00	27.5	25.1	39.8	58	37.8	55	21.8	40	18.8	37	18.0	30	30	537	27.0	NS
250.00	31.0	28.3	38.3	55	36.3	52	19.8	38	16.8	35	17.3	25	30	536	26.0	NS
300.00	34.2	31.0	37.1	52	35.1	49	18.3	32	15.3	29	16.8	23	30	536	25.2	NS
400.00	40.0	36.0	35.3	48	33.3	45	15.8	28	12.8	25	15.9	22	30	536	24.0	NS
500.00	45.3	41.1	33.8	47	31.8	44	13.8	25	10.8	22	15.2	21	30	536	23.0	NS
600.00	50.1	45.0	32.6	46	30.6	43	12.2	22	9.2	19	14.7	20	30	535	22.2	NS

Characteristic Impedance	100±6 Ohm @ 1-600 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)	67-69%
Propagation Delay	514 + 36/f ^{1/2} nS/100m max @ 1-600 MHz
Propagation Delay Skew	35 nS/100m max @ 1-600 MHz
Insulation Resistance	5000 MegaOhm·Km min. @ 500 Vdc
Coupling Attenuation	40 dB min @ 30-100 MHz 40-20Log(f/100) @100-600 MHz
Transfer Impedance	N/A

ORDERING INFORMATION

HCS P/N	Description	OD mm	Weight Kg/Km	Cal. Value Kj/m	Packaging	Notes
H6E-F0401-DP	4x2x23# U/UTP CAT 6E PVC Gray	5.6	36	580	500m Drum	-
H6E-F0401-DM	4x2x23# U/UTP CAT 6E PVC Gray	5.6	36	580	1000m Drum	-
H6E-F0402-DP	4x2x23# U/UTP CAT 6E LSOH Gray	5.6	36	585	500m Drum	-
H6E-F0402-DM	4x2x23# U/UTP CAT 6E LSOH Gray	5.6	36	585	1000m Drum	-

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.