

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

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)	67-69%
Propagation Delay	514 + 36/f/2 nS/100m max @ 1-250 MHz
Propagation Delay Skew	45 nS/100m max @ 1-250 MHz
Insulation Resistance	5000 MegaOhm•Km min. @ 500 Vdc
Coupling Attenuation	55 dB min @ 30-100 MHz 55-20Log(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	Cal. Value Kj/m	Packaging	Notes
H06-F0411-DK	4x2x23# F/UTP CAT 6 PVC Gray	8.0	58	580	305m Drum	-
H06-F0411-DP	4x2x23# F/UTP CAT 6 PVC Gray	8.0	58	580	500m Drum	-
H06-F0411-DM	4x2x23# F/UTP CAT 6 PVC Gray	8.0	58	580	1000m Drum	-
H06-F0412-DK	4x2x23# F/UTP CAT 6 LSOH Gray	8.0	58	585	305m Drum	-
H06-F0412-DP	4x2x23# F/UTP CAT 6 LSOH Gray	8.0	58	585	500m Drum	-
H06-F0412-DM	4x2x23# F/UTP CAT 6 LSOH Gray	8.0	58	585	1000m Drum	-
H06-F0813-DP	2x(4x2x23#) CAT 6 F/UTP PVC Gray	8.0x16.1	116	1180	500m Drum	FIG-8
H06-F0813-DM	2x(4x2x23#) CAT 6 F/UTP PVC Gray	8.0x16.1	116	1180	1000m Drum	FIG-8
H06-F0814-DP	2x(4x2x23#) CAT 6 F/UTP LSOH Gray	8.0x16.1	116	1190	500m Drum	FIG-8
H06-F0814-DM	2x(4x2x23#) CAT 6 F/UTP LSOH Gray	8.0x16.1	116	1190	1000m Drum	FIG-8

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.