

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 ^{1/2} 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	Cal. Value Kj/m	Packaging	Notes
H06-F0441-DP	4x2x23# F/FTP CAT 6 PVC Gray	7.3	50	600	500m Drum	-
H06-F0441-DM	4x2x23# F/FTP CAT 6 PVC Gray	7.3	50	600	1000m Drum	-
H06-F0442-DP	4x2x23# F/FTP CAT 6 LSOH Gray	7.3	50	605	500m Drum	-
H06-F0442-DM	4x2x23# F/FTP CAT 6 LSOH Gray	7.3	50	605	1000m Drum	-
H06-F0843-DP	2x(4x2x23#) F/FTP CAT 6 PVC Gray	7.3x14.7	100	1200	500m Drum	FIG-8
H06-F0843-DM	2x(4x2x23#) F/FTP CAT 6 PVC Gray	7.3x14.7	100	1200	1000m Drum	FIG-8
H06-F0844-DP	2x(4x2x23#) F/FTP CAT 6 LSOH Gray	7.3x14.7	100	1210	500m Drum	FIG-8
H06-F0844-DM	2x(4x2x23#) F/FTP CAT 6 LSOH Gray	7.3x14.7	100	1210	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.