

TRANSMISSION PROPERTIES AND ELECTRICAL SPECIFICATIONS

FREQ.	Insertion Loss	NEXT	PS NEXT	ACR-F	PS ACR-F	RL	Delay	TCL	EL TCL	PS ANEXT	PS AACR-F
MHz	dB/100m	dB	dB	dB/100m	dB/100m	dB	nS/100m	dB	dB	dB	dB
	Max	Min	Min	Min	Min	Min	Max	Min	Min	Min	Min
1	2.08	75.30	73.30	68.00	65.00	20.00	570.00	40.00	35.00	67.00	67.00
10	5.93	60.30	58.30	48.00	45.00	25.00	545.38	40.00	15.00	67.00	58.20
20	8.38	55.78	53.78	41.98	38.98	25.00	542.05	36.99	8.98	67.00	52.18
25	9.38	54.33	52.33	40.04	37.04	24.32	541.20	36.02	7.04	67.00	50.24
30	10.29	53.14	51.14	38.46	35.46	23.77	540.57	35.23	5.46	67.00	48.66
62.5	14.99	48.36	46.36	32.08	29.08	21.54	538.55	32.04	NS	65.56	42.28
100	19.14	45.30	43.30	28.00	25.00	20.11	537.60	30.00	NS	62.50	38.20
200	27.58	40.78	38.78	21.98	18.98	18.00	536.55	26.99	NS	57.98	32.18
250	31.07	39.33	37.33	20.04	17.04	17.32	536.28	26.02	NS	56.53	30.24
300	34.27	38.14	36.14	18.46	15.46	17.30	536.08	25.23	NS	55.34	28.66
400	40.05	36.27	34.27	15.96	12.96	17.30	535.80	23.98	NS	53.47	26.16
500	45.26	34.82	32.82	14.02	11.02	17.30	535.61	23.01	NS	52.02	24.22

Characteristic Impedance	100±6 Ohm @ 1-500 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 Skew	45 nS/100m max @ 1-500 MHz
Insulation Resistance	5000 MegaOhm·Km min. @ 500 Vdc
Coupling Attenuation	85 dB min @ 30-100 MHz 85-20Log(f/100) @100-500 MHz
Transfer Impedance	50 mOhm/m max @ 1 MHz. 100 mOhm/m max @ 10 MHz. 200 mOhm/m max @ 30 MHz. 1000 mOhm/m max @ 100 MHz.

ORDERING INFORMATION

HCS P/N	Description	OD mm	Weight Kg/Km	Cal. Value Kj/m	Packaging	Notes
H6A-F0441-DK	4x2x23# F/FTP CAT 6A PVC Gray	7.3	50	600	305m Drum	-
H6A-F0441-DP	4x2x23# F/FTP CAT 6A PVC Gray	7.3	50	600	500m Drum	-
H6A-F0441-DM	4x2x23# F/FTP CAT 6A PVC Gray	7.3	50	600	1000m Drum	-
H6A-F0442-DK	4x2x23# F/FTP CAT 6A LS0H Gray	7.3	50	605	305m Drum	-
H6A-F0442-DP	4x2x23# F/FTP CAT 6A LS0H Gray	7.3	50	605	500m Drum	-
H6A-F0442-DM	4x2x23# F/FTP CAT 6A LS0H Gray	7.3	50	605	1000m Drum	-
H6A-F0843-DP	2x(4x2x23#) F/FTP CAT 6A PVC Gray	7.3x14.7	100	1200	500m Drum	FIG-8
H6A-F0843-DM	2x(4x2x23#) F/FTP CAT 6A PVC Gray	7.3x14.7	100	1200	1000m Drum	FIG-8
H6A-F0844-DP	2x(4x2x23#) F/FTP CAT 6A LS0H Gray	7.3x14.7	100	1210	500m Drum	FIG-8
H6A-F0844-DM	2x(4x2x23#) F/FTP CAT 6A LS0H 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.