

TRANSMISSION PROPERTIES AND ELECTRICAL SPECIFICATIONS

FREQ.	Insertion Loss	NEXT	PS NEXT	EL FEXT	PS EL FEXT	RL	TCL	EL TCL	PS ANEXT	PS AFEXT
MHz	dB/100m	dB	dB	dB/100m	dB/100m	dB	dB	dB	dB	dB
	Max	Min	Min	Min	Min	Min	Min	Min	Min	Min
1	NS	78.0	75.0	78.0	75.0	20.0	40.0	35.0	67.0	67.0
4	3.5	78.0	75.0	78.0	75.0	23.0	40.0	23.0	67.0	67.0
10	5.4	78.0	75.0	74.0	71.0	25.0	40.0	15.0	67.0	58.2
20	7.6	78.0	75.0	68.0	65.0	25.0	37.0	9.0	67.0	52.2
25	8.5	78.0	75.0	66.0	63.0	24.3	36.0	7.0	67.0	50.2
30	9.4	78.0	75.0	64.5	61.5	23.8	35.2	5.5	67.0	48.7
62.5	13.7	79.1	76.1	58.1	55.1	21.5	32.0	NS	65.6	42.3
100	17.5	76.0	73.0	54.0	51.0	20.1	30.0	NS	62.5	38.2
200	25.3	71.5	68.5	48.0	45.0	18.0	27.0	NS	58.0	32.2
250	28.5	70.0	67.0	46.0	43.0	17.3	26.0	NS	56.5	30.2
300	31.5	68.8	65.8	44.5	41.5	17.3	NS	NS	55.3	28.7
400	36.9	67.0	64.0	42.0	39.0	17.3	NS	NS	53.5	26.2
500	41.8	65.5	62.5	40.0	37.0	17.3	NS	NS	52.0	24.2
600	46.3	64.3	61.3	38.4	35.4	17.3	NS	NS	50.8	22.6
800	54.5	62.5	59.5	35.9	32.9	16.1	NS	NS	49.0	20.1
1000	62.0	61.0	58.0	34.0	31.0	15.1	NS	NS	47.5	18.2
1200	69.0	59.8	56.8	32.4	29.4	14.3	NS	NS	46.3	16.6

Characteristic Impedance	100±5 Ohm @ 1-1200 MHz
Resistance Unbalance	2% max.
Capacitance	45 pF/m nom. @ 1 KHz
Cap. Unbalance (Wire to Ground)	1200 pF/Km max. @ 1 KHz.
Voltage Rating	72 Vdc max.
Dielectric Strength	700 Volts/1 minute min rms
Velocity of Propagation (NVP)	77-80%
Propagation Delay	500 + 36/f <sup>1/2</sup> @ 1-1200 MHz.
Delay Skew	25 nS/100m max @ 1-1200 MHz.
Insulation Resistance	5000 MegaOhm•Km min. @ 500 Vdc
Coupling Attenuation	85 dB min @ 30-100 MHz 85-20Log(f/100) @100-1200 MHz
Screening Attenuation	60 dB min @ 30-1200 MHz
Transfer Impedance	10 mOhm/m max @ 1-30 MHz 30 MOhm/m max @ 30-100 MHz.

ORDERING INFORMATION

HCS P/N	Description	OD mm	Weight Kg/Km	Cal. Value Kj/m	Packaging	Notes
H7B-F0401-DP	4x2x22# S/FTP CAT 7B PVC Gray	8.1	68	670	500m Drum	
H7B-F0401-DM	4x2x22# S/FTP CAT 7B PVC Gray	8.1	68	670	1000m Drum	
H7B-F0402-DP	4x2x22# S/FTP CAT 7B LS0H Gray	8.1	68	670	500m Drum	
H7B-F0402-DM	4x2x22# S/FTP CAT 7B LS0H Gray	8.1	68	670	1000m Drum	
H7B-F0803-DP	2x(4x2x22#) CAT 7B S/FTP PVC Gray	8.1x16.4	138	1340	500m Drum	FIG-8
H7B-F0803-DM	2x(4x2x22#) CAT 7B S/FTP PVC Gray	8.1x16.4	138	1340	1000m Drum	FIG-8
H7B-F0804-DP	2x(4x2x22#) CAT 7B S/FTP LS0H Gray	8.1x16.4	138	1340	500m Drum	FIG-8
H7B-F0804-DM	2x(4x2x22#) CAT 7B S/FTP LS0H Gray	8.1x16.4	138	1340	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.