

TRANSMISSION PROPERTIES AND ELECTRICAL SPECIFICATIONS

FREQ.	Insertion Loss	NEXT	PS NEXT	ACR-F	PS ACR-F	RL	SKEW	Delay	TCL	EL-TCTL	PS ANEXT	PS AACRF
MHz	dB/100m	dB	dB	dB/100m	dB/100m	dB	nS/100m	nS/100m	dB	dB	dB	dB
	Max	Min	Min	Min	Min	Min	Max	Max	Min	Min	Min	Min
1	2.06	78.00	75.00	78.00	75.00	20.00	25.00	570.00	40.00	40.00	80.00	80.00
4	3.75	78.00	75.00	78.00	75.00	23.01	25.00	552.00	40.00	27.96	80.00	80.00
8	5.22	78.00	75.00	78.00	75.00	24.52	25.00	546.73	36.45	21.94	80.00	80.00
10	5.82	78.00	75.00	78.00	75.00	25.00	25.00	545.38	35.00	20.00	80.00	80.00
16	7.34	78.00	75.00	76.52	73.52	25.00	25.00	543.00	31.94	15.92	80.00	78.12
20	8.21	78.00	75.00	74.58	71.58	25.00	25.00	542.05	30.48	13.98	80.00	76.18
25	9.18	78.00	75.00	72.64	69.64	25.00	25.00	541.20	29.03	12.04	80.00	74.24
30	10.05	78.00	75.00	71.06	68.06	25.00	25.00	540.57	27.84	10.46	80.00	72.66
31.25	10.26	78.00	75.00	70.70	67.70	25.00	25.00	540.44	27.58	10.10	80.00	72.30
40	11.62	78.00	75.00	68.56	65.56	25.00	25.00	539.69	25.97	7.96	80.00	70.16
62.5	14.57	78.00	75.00	64.68	61.68	23.64	25.00	538.55	23.06	5.00	80.00	66.28
100	18.53	75.40	72.40	60.60	57.60	22.21	25.00	537.60	20.00	5.00	80.00	62.20
200	26.47	70.88	67.88	54.58	51.58	20.11	25.00	536.55	15.48	5.00	80.00	56.18
250	29.73	69.43	66.43	52.64	49.64	19.43	25.00	536.38	14.03	5.00	80.00	54.24
300	32.69	68.24	65.24	51.06	48.06	18.87	25.00	536.08	12.84	5.00	80.00	52.66
400	38.01	66.37	63.37	48.56	45.56	18.00	25.00	535.80	10.97	5.00	78.47	50.16
500	42.76	64.92	61.92	46.62	43.62	17.32	25.00	535.61	9.52	5.00	77.02	48.22
600	47.10	63.73	60.73	45.04	42.04	16.77	25.00	535.47	8.33	5.00	75.83	46.64
1000	61.93	60.40	57.40	40.60	37.60	15.21	25.00	535.14	7.00	5.00	72.50	42.20
1500	77.22	57.76	54.76	37.08	34.08	13.98	25.00	534.93	7.00	5.00	69.86	38.68
2000	90.50	55.88	52.88	34.58	31.58	13.11	25.00	534.80	7.00	5.00	67.98	36.18

Characteristic Impedance	100±5 Ohm @ 1-2000 MHz
DC Resistance	62.0 Ohm/km max.
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	700 Volts/1 minute min rms
Velocity of Propagation (NVP)	77-80% @ 1-2000 MHz
Propagation Delay	534+36/f <sup>2</sup> nS/100m max. @ 1-2000 MHz
Delay Skew	15 nS/100m max @ 1-2000 MHz.
Insulation Resistance	500 MegaOhm·km min. @ 500 Vdc
Coupling Attenuation	IEC 61156-5 Type I
Transfer Impedance	IEC 61156-5 Grade I

ORDERING INFORMATION

HCS P/N	Description	OD mm	Weight kg/km	Cal. Value kj/m	Packaging	Notes
H08-F040K-DP	4x2x23# S/FTP CAT 8 LSOH Gray	7.5	65	600	500m Drum	
H08-F040K-DM	4x2x23# S/FTP CAT 8 LSOH Gray	7.5	65	600	1000m Drum	
H08-F0402-DP	4x2x22# S/FTP CAT 8 LSOH Gray	8.0	74	650	500m Drum	
H08-F0402-DM	4x2x22# S/FTP CAT 8 LSOH Gray	8.0	74	650	1000m Drum	
H08-F080K-DP	2x(4x2x23#) S/FTP CAT 8 LSOH Gray	7.5x15.0	130	1200	500m Drum	FIG-8
H08-F080K-DM	2x(4x2x23#) S/FTP CAT 8 LSOH Gray	7.5x15.0	130	1200	1000m Drum	FIG-8
H08-F0804-DP	2x(4x2x22#) S/FTP CAT 8 LSOH Gray	8.0x16.0	145	1300	500m Drum	FIG-8
H08-F0804-DM	2x(4x2x22#) S/FTP CAT 8 LSOH Gray	8.0x16.0	145	1300	1000m Drum	FIG-8

Flame Test Conformance F=0: IEC 60332-1 F=C: IEC 60332-3-24 F=D: IEC 60332-3-25 F=E: EU CPR