

Category 7A+ S/FTP 100 Ohm
Horizontal LAN Cables
Tested to 1500MHz

DataLink 1000

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	3.75	78.0	75.0	83.1	80.1	23.0	40.0	23.0	67.0	67.0
10	5.82	78.0	75.0	75.1	72.1	25.0	40.0	15.0	67.0	67.0
20	8.21	78.0	75.0	69.1	66.1	25.0	37.0	9.0	67.0	67.0
25	9.18	78.0	75.0	67.1	64.1	24.3	36.0	7.0	67.0	65.2
31.25	10.26	78.0	75.0	65.2	62.2	23.6	35.1	5.1	67.0	63.3
62.5	14.57	78.0	75.0	59.2	56.2	21.5	32.0	NS	67.0	57.3
100	18.53	75.4	72.4	55.1	52.1	20.1	30.0	NS	67.0	53.2
200	26.47	70.9	67.9	49.1	46.1	18.0	27.0	NS	67.0	47.2
250	29.73	69.4	66.4	47.1	44.1	17.3	26.0	NS	67.0	45.2
300	32.69	68.2	65.2	45.6	42.6	17.3	NS	NS	67.0	43.7
400	38.01	66.4	63.4	43.1	40.1	17.3	NS	NS	67.0	41.2
500	42.76	64.9	61.9	41.1	38.1	17.3	NS	NS	67.0	39.2
600	47.10	63.7	60.7	39.5	36.5	17.3	NS	NS	65.8	37.6
700	51.13	62.7	59.7	38.2	35.2	16.6	NS	NS	64.8	36.3
800	54.92	61.9	58.9	37.0	34.0	16.1	NS	NS	64.0	35.1
1000	61.93	60.4	57.4	35.1	32.1	15.1	NS	NS	62.5	33.2
1200	68.36	59.2	56.2	33.5	30.5	14.3	NS	NS	61.3	31.6
1400	74.36	58.2	55.2	32.2	29.2	13.6	NS	NS	60.3	30.3
1500	77.22	57.8	54.8	31.6	28.6	13.3	NS	NS	59.9	29.7

Note: Values above 1000MHz are nominal, for reference only

Characteristic Impedance	100±5 Ohm @ 1-1500 MHz
DC Resistance	93.0 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% @ 1-1500 MHz
Propagation Delay	534+36/f1/2 nS/100m max. @ 1-1500 MHz
Delay Skew	15 nS/100m max @ 1-1500 MHz.
Insulation Resistance	5000 MegaOhm•Km min. @ 500 Vdc
Coupling Attenuation	IEC 61156-5 Type I
Screening Attenuation	60 dB min @ 30-1000 MHz
Transfer Impedance	IEC 61156-5 Grade 1

ORDERING INFORMATION

HCS P/N	Description	OD mm	Weight kg/km	Cal. Value kj/m	Packaging	Notes
H7A-F04xK-DP	4x2x23# S/FTP CAT 7A+ LSOH Gray Tested to 1500MHz	7.2	55	600	500m Drum	-
H7A-F04xK-DM	4x2x23# S/FTP CAT 7A+ LSOH Gray Tested to 1500MHz	7.2	55	600	1000m Drum	-
H7A-F04x2-DP	4x2x22# S/FTP CAT 7A+ LSOH Gray Tested to 1500MHz	7.6	61	650	500m Drum	-
H7A-F04x2-DM	4x2x22# S/FTP CAT 7A+ LSOH Gray Tested to 1500MHz	7.6	61	650	1000m Drum	-
H7A-F082K-DP	2x(4x2x23#) S/FTP CAT 7A+ LSOH Gray Tested to 1500MHz	7.2 x 14.5	110	1200	500m Drum	FIG-8
H7A-F082K-DM	2x(4x2x23#) S/FTP CAT 7A+ LSOH Gray Tested to 1500MHz	7.2 x 14.5	110	1200	1000m Drum	FIG-8
H7A-F0824-DP	2x(4x2x22#) S/FTP CAT 7A+ LSOH Gray Tested to 1500MHz	7.6 x 15.3	121	1300	500m Drum	FIG-8
H7A-F0824-DM	2x(4x2x22#) S/FTP CAT 7A+ LSOH Gray Tested to 1500MHz	7.6 x 15.3	121	1300	1000m Drum	FIG-8

Flame Test Conformance F=0: IEC 60332-1 F=B: IEC 60332-3-22 F=C: IEC 60332-3-24 F=D: IEC 60332-3-25

Note: x can be replaced by 0, 1 or 2.