

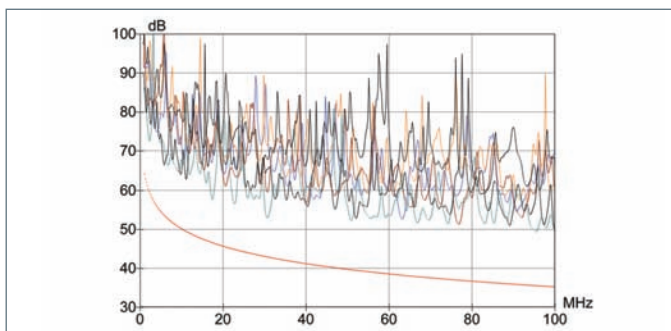
## Category 5e F/UTP 100 Ohm Horizontal LAN Cables

### Transmission Properties and Electrical Specifications

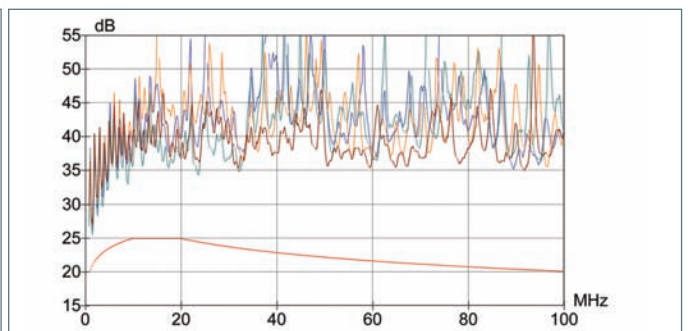
Frequency MHz	Insertion Loss		NEXT		PS NEXT		EL FEXT		PS EL FEXT		RL		SKEW	Prop. Delay	TCL
	dB/100m		dB		dB		dB/100m		dB/100m		dB		nS/100m	nS/100m	dB
	Max	Nom	Min	Nom	Min	Nom	Min	Nom	Min	Nom	Min	Nom	Max	Max	Min
1.00	2.0	1.8	65.3	90	62.3	86	63.8	90	60.8	87	20.0	30	40.0	550	40.0
4.00	4.1	3.7	56.3	75	53.3	71	51.7	80	48.8	77	23.3	35	40.0	532	34.0
8.00	5.8	5.3	51.8	70	48.8	66	45.7	75	42.7	72	25.0	35	40.0	527	31.0
10.00	6.5	6.0	50.3	67	47.3	63	43.8	70	40.8	67	25.0	35	40.0	525	30.0
16.00	8.2	7.6	47.3	65	44.3	61	39.7	65	36.7	62	25.0	40	40.0	523	28.0
25.00	10.4	9.6	44.3	63	41.3	59	35.8	60	32.8	57	25.0	40	40.0	521	26.0
31.25	11.7	10.7	42.9	60	39.9	56	33.9	55	30.9	52	24.1	40	40.0	520	25.1
62.50	17.0	15.3	38.4	58	35.4	54	27.8	50	24.8	47	22.0	35	40.0	519	22.0
100.00	22.0	19.8	35.3	53	32.3	49	23.8	45	20.8	42	20.6	35	40.0	518	20.0

Characteristic Impedance	100±6 Ohm @ 1-100 MHz.
DC Resistance	93 Ohm/Km max.
Resistance unbalance	2% max.
Capacitance	47 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)	67-69%
Insulation Resistance	5000 MegaOhm • Km min. @ 500 Vdc
Coupling attenuation	55 dB min @ 30-100 MHz
Transfer Impedance	50 mOhm/m max. @ 1-30 MHz

#### Typical NEXT Loss



#### Typical Return Loss



### Ordering Information

HCS P/N	Description	OD mm	Weight Kg/Km	Cal. Value Kj/m	Packaging	Notes
H5E-00411-DK	4x2x24# F/UTP CAT 5e PVC Grey	5.9	39	481	305m Drum	-
H5E-00411-DP	4x2x24# F/UTP CAT 5e PVC Grey	5.9	39	481	500m Drum	-
H5E-00411-DM	4x2x24# F/UTP CAT 5e PVC Grey	5.9	39	481	1000m Drum	-
H5E-00412-DP	4x2x24# F/UTP CAT 5e LS0H Grey	5.9	39	482	500m Drum	-
H5E-00412-DM	4x2x24# F/UTP CAT 5e LS0H Grey	5.9	39	484	1000m Drum	-
H5E-00813-DP	2x(4x2x24#) F/UTP CAT 5e PVC Grey	5.9x11.8	78	965	500m Drum	FIG-8
H5E-00813-DM	2x(4x2x24#) F/UTP CAT 5e PVC Grey	5.9x11.8	78	965	1000m Drum	FIG-8
H5E-00814-DP	2x(4x2x24#) F/UTP CAT 5e LS0H Grey	5.9x11.8	78	975	500m Drum	FIG-8
H5E-00814-DM	2x(4x2x24#) F/UTP CAT 5e LS0H Grey	5.9x11.8	78	975	1000m Drum	FIG-8

**Note:** Standard jacket color: Light Gray RAL 7035. Other colors available upon request.