



Cat 7 SFTP LSZH Cable

Construction

Conductor	23 awg solid bare copper (0.57mm)
Insulation	Foam skin polyolefine
Pair	4 individually shielded twisted pairs: white & blue, white & orange, white & green, white & brown
Diameter over insulation	1.45mm +/- 0.05mm
Shield	Tinned copper braid, coverage 40%
Ripcord	Polyester
Sheath	FRNC compound, grey Overall diameter:8.00mm +/- 0.30mm
BATT Part Number	77084



Applications

Horizontal & building backbone cable to support current and future cat 7 applications, such as 100 Base-TX, 100 Base VG AnyLan, 1000 Base-T, FDDI, 155 ATM

Standards

FCD ISO/IEC 11801 (Oct 2001), prEN 50288-4-1
Future standards: ISO/IEC 11801 2nd Edition, EN50173 2nd Edition

General Characteristics

Temperature range - operation	-20°C to +60°C
Temperature range - installation	0°C to +50°C
Minimum bending radius - operation	30 mm
Minimum bending radius - installation	60mm
Maximum pulling tension	90N
Flame retardancy	IEC 60332
Caloric value	500 kJ/m
Weight	60.0 kg/km
Maximum operating voltage	48 V rms
Max continuous current per conductor (25°C)	1.4 A

Electrical Characteristics at 20°C

Nominal mutual capacitance at 1kHz	48 nF/km
Max conductor DCR	75 Ohm/km
Nominal Velocity of Propagation	0.75 c
SKEW - propagation delay difference (100MHz)	typical \leq 15 ns/100m
Impedance 1-100 MHz	100 +/- 15 Ohms
Impedance 100-250 MHz	100 +/- 18 Ohms
Impedance 250-600 MHz	100 +/- 25 Ohms

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Electrical Characteristics at 20°C (cont)

Attenuation

Frequency MHz	1	4	10	16	20	31.2	62.5	100	155	200	300	600
Spec (Max)* dB/100m	2.0	3.7	5.9	7.4	8.5	10.4	14.9	19.0	24.0	27.5	34.2	50.1
Typical dB/100m	1.9	3.5	5.4	6.9	7.6	9.6	13.6	17.4	21.7	24.7	30.5	44.6

NEXT Near end crosstalk

Frequency MHz	1	4	10	16	20	31.2	62.5	100	155	200	300	600
Spec (Min)* dB/100m	80	80	80	80	80	80	75	72	70	68	65	61
Typical dB/100m	100	100	100	100	100	100	100	95	95	95	90	90

Power sum NEXT

Frequency MHz	1	4	10	16	20	31.2	62.5	100	155	200	300	600
Spec (Min)* dB/100m	77	77	77	77	77	77	72	69	67	65	62	58
Typical dB/100m	98	98	98	98	98	98	98	93	93	93	88	88

Power sum ELFEXT

Frequency MHz	1	4	10	16	20	31.2	62.5	100	155	200	300	600
Spec (Min)* dB/100m	75	75	71	67	65	61	55	51	47	45	41	35
Typical dB/100m	95	95	95	90	87	84	80	76	72	70	65	50

Power sum ACR

Frequency MHz	1	4	10	16	20	31.2	62.5	100	155	200	300	600
Spec (Min)* dB/100m	73	73	71.1	69.6	68.5	66.6	57.1	50	43	37.5	27.8	7.9
Typical dB/100m	96	94	92	91	90	88	84	75	71	68	57	43

Return Loss

Frequency MHz	1	4	10	16	20	31.2	62.5	100	155	200	300	600
Spec (Min)* dB/100m	20	23	25	25	25	23.7	21.5	20.1	18.8	17.3	17.3	17.3
Typical dB/100m	26	30	35	35	35	34	32	31	29	29	28	28

* specification values according to cable requirements of FCD ISO/IEC 11801 category 7, Oct 2001

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