

SMP-611FTP64PLZ

Cat 6 (300 MHz) FTP solid cable (LSZH sheath)



DESCRIPTION: These indoor cables correspond to our best technology for high speed data transmission. They provide excellent data transmission characteristics that go beyond the Category 6 requirements, with performance values at 500 MHz higher than other cables of this category available in the market. They have a LSZH sheath (standard colour Grey) according to EN 50268 and EN 50267-2-1, and satisfy the requirements of EN 50265-1 (IEC 60332-1) concerning flame retardancy.

CONSTRUCTION

Conductor	24 AWG (0,51 mm) solid bare annealed Copper
Insulation	Polyolefin
Pairing	Varying short pair lay-length
Screen	Aluminium-Polyester foil
Drain wire	Tinned Copper
Sheath	Grey LSZH material

APPLICATIONS

- Supports full and half duplex operation
- Digital/analogic video
- 16 Mbps Token Ring
- 100 Mbps TP-PMOD
- 100 BASE-T (IEEE 802.3)
- 1000 BASE-T (Gigabit Ethernet)
- 155/622 Mbps ATM
- 1.2 Gbps ATM

COMPLIANCES

IEC 60332-1, UNE 50265-2-1 (flame retardant cable)
ANSI/TIA/EIA 568-B.2 (Category 6)
ISO/IEC 11801
EN 50173
EN 50268 (smoke density)
EN 50267-2-1 (Halogen content)

PACKING

- 500 and 1000 m spools

COLOUR CODE

Pairs	Colour combination
1	white □ blue blue
2	white □ orange orange
3	white □ green green
4	white □ brown brown

ELECTRICAL AND CONSTRUCTIVE VALUES

DC resistance (max) Ohm/100m(328 ft) @ 20°C		8,90
Resistance unbalance (max) Individual pair %		3,0
Mutual capacitance (max) nF/100m(328 ft) @ 1kHz		5,60
Nominal velocity of propagation NVP (% speed of light)		70
Characteristic impedance (Ohm) Value at	1,0-100 MHz 100-350 MHz 350-500 MHz	85-115 78-122 68-132
Propagation Delay (max) (ns @ 10 MHz)		518
Delay skew (max) (ns/100 m)		35
External diameter (mm)		7,1
Weight (kg/km)		51,3
Minimum bending radius (mm)		28,3

Freq. MHz	Attenuat. Max. dB/100m	NEXT dB/100m (min)	PS-NEXT dB/100m (min)	ELFEXT dB/100m (min)	PS-ELFEXT dB/100m (min)	ACR dB/100m (min)	PS-ACR dB/100m (min)	Return loss dB/100m (min)
0,772	1,6	96,4	93,6	90	90,3	94,8	92	
1	1,8	94,7	91,9	87,9	88	92,9	90,1	37,4
4	3,5	85,5	82,5	76,9	76,1	82	79	35,6
8	5	80,9	77,8	71,4	70,1	75,9	72,8	34,7
10	5,5	79,4	76,3	69,6	68,2	73,9	70,8	34,4
16	7	76,3	73,2	65,9	64,1	69,3	66,2	33,8
25	8,8	73,3	70,1	62,3	60,3	64,5	61,3	33,6
31,25	9,9	71,8	68,6	60,5	58,3	61,9	58,7	33,3
62,5	14,1	67,2	64	55	52,4	53,1	49,9	33
100	18	64,1	60,8	51,3	48,3	46,1	42,8	32,1
155	22,7	61,2	57,8	49,2	46	38,5	35,1	31,5
200	26	59,5	56,1	45,8	42,3	33,5	30,1	30,6
250	29,2	58	54,6	44	40,4	28,8	25,4	30,4
350	35,1	55,8	52,3	41,3	37,5	20,7	17,2	-
400	38,1	54,9	51,4	40,3	36,4	16,8	13,3	-
500	43	53,5	49,9	38,5	34,4	10,5	6,9	-