

# FTP Cat. 5e - Enhanced 200 MHz

## Foiled Twisted Pair 4x2x24 AWG Cat. 5e

LSZH or PVC Sheath

Part Number LSZH SMP-611FTP4PLZGI  
Part Number PVC SMP-611FTP4PGI



### PHYSICAL CHARACTERISTICS

- **Conductors** Annealed copper wirer AWG 24
- **Insulation** Polyethylene
- **Pairs**
  - Colour code**
  - 1. White/Blue Blue
  - 2. White/Orange Orange
  - 3. White/Green Green
  - 4. White/Brown Brown
- **Separator tape** Synthetic material
- **Drain wire** Tinned copper
- **Shield** Aluminium/Polyester tape
- **Overall jacket** LSZH (or PVC) material Nominal Ø 6,0mm
- **Nominal weight** 40 kg/km
- **Packaging** m. 305 Reel Box

### APPLICATION

Horizontal and work area wiring cables for voice, video and high speed data transmission at frequency up to 200 MHz, exceeding IEC 11801 Cat. 5 specification. Guaranteed performance in compliance with the most demanding LAN applications like ATM 155 Mbps and Gigabit Ethernet.

### NOMINAL ELECTRICAL CHARACTERISTICS at 20° C

- DC loop resistance Max 170 Ω/Km
- DC resistance unbalance Max 1%
- Mutual capacitance Max 50 pF/m
- Capacitance unbalance Max 1.600 pF/Km
- Operating voltage Max 125 V<sub>DC</sub>
- Dielectric strength 2.500 [V<sub>DC</sub>/2"]
- Insulation resistance min 10 Ω x Km
- Characteristics Impedance f = 1÷100 MHz 100±15 Ω
- Velocity propagation f = 100÷200 MHz 100±18 Ω
- Propagation delay Skew (@ 100 MHz) 66%<sub>c</sub>
- Transfer impedance (@ 1 MHz) Max 20 ns/100m
- Transfer impedance (@ 10 MHz) Max 50 mΩ/m
- Transfer impedance (@ 10 MHz) Max 100 mΩ/m

### MARKING

**Superior Modular Products**  
week/year - FTP 4x2x24AWG - LSZH (or PVC) - CATEGORY 5e  
Extended Frequency 200MHz  
100ohm - ISO/IEC 11801 + metric

### INSTALLATION CHARACTERISTICS

- Max. install tension 115 N
- Minimum bending radius
  - Installation 50 mm
  - Operation 25 mm
- Temperature rating [°C]
  - Installation 0 ÷ +50 °C
  - Operation -20 ÷ +60 °C

### STANDARDS

EIA/TIA 568-A-5 (As far as it concerns)  
EN 50173  
EIA/TIA 568 B-2.1

### FIRE PERFORMANCE (\*Only for LSZH version)

- Flame retardan IEC 332.1
- Fire retardant IEC 332.3C
- Low smoke opacity \*IEC 1034 1/2
- Halogen free \*IEC 754-1

### CABLE PERFORMANCES

Frequency [MHz]	Attenuation [dB/100m]		Near end crosstalk [dB]		ACR [dB]	
	ISO/IEC 11801	Typical value	ISO/IEC 11801	Typical value	ISO/IEC 11801	Typical value
1	2,1	2,0	62	72	59,9	70,0
4	4,3	4,0	53	62	48,7	58,0
10	6,6	6,2	47	56	40,4	49,8
16	8,2	7,8	44	53	35,8	45,2
20	9,2	8,8	42	51	32,8	42,2
31,25	11,8	11,2	40	48	28,2	36,8
62,5	17,1	16,3	35	43	17,9	26,7
100	22,0	21,0	32	41	10,0	20,0
155		25,5		37		11,5
200				35		5,7