

UTP Cat. 5e - Enhanced 200 MHz

Unshielded Twisted Pair 4x2x24 AWG Cat. 5e

LSZH or PVC Sheath

Part Number LSZH SMP-611UTP4PLZGI
Part Number PVC SMP-611UTP4PGI



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
- **Overall jacket** LSZH (or PVC) material Nominal Ø 5,2mm
- **Nominal weight** 32 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 EIA/TIA 568-A-5, Cat. 5e and IEC 11801 new class D, specification. Guaranteed performances in compliance with the most demanding LAN applications like ATM 155/622 Mbps and Gigabit Ethernet.

NOMINAL ELECTRICAL CHARACTERISTICS at 20° C

- DC loop resistance Max 170 Ω/Km
- DC resistance unbalance Max 2%
- Mutual capacitance Max 50 pF/m
- Capacitance unbalance Max 1.600 pF/Km
- Operating voltage Max 125 V_{DC}
- Dielectric strength 2.500 [V_{DC}/2"]
- Insulation resistance min 5 Ω x Km
- Characteristics Impedance f = 1÷100 MHz 100±15 Ω
- f = 100÷200 MHz 100±18 Ω
- Velocity propagation (@ 100 MHz) 66% c
- Propagation delay (@ 100 MHz) Max 510 ns/100m
- Skew (@ 100 MHz) Max 20 ns/100m

MARKING

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

STANDARDS

fdEN 50288
EN 50173
ISO/IEC 11801
ANSI/EIA/TIA 568-A-5

INSTALLATION CHARACTERISTICS

- Max. install tension 100 N
- Minimum bending radius
 - Installation 40 mm
 - Operation 20 mm
- Temperature rating [°C]
 - Installation 0 ÷ +50 °C
 - Operation -20 ÷ +60 °C

FIRE PERFORMANCE

(*Only for LSZH version)

- Flame retardan IEC 332.1
- 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		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		29,3		35		5,7