



## Category 6A U/UTP - Unshielded Twisted Pair LSZH Eca Cable

The Category 6A Unshielded Twisted Pair (U/UTP) cable with 4 x 2 x 23 AWG copper wire structure fully complies with ISO/IEC 11801 and TIA/EIA 568 standards. OptronicsPlus Cat6a U/UTP cable exceeds Cat6A/Class EA performance requirements and supports 10G-BASE-T, 2G FCBASE-T, 4G FCBASE-T and 1000Base-T applications. It is available with flame retardant LSZH Eca outer jacket.

### Features

- 23 AWG conductors
- Exceeds Cat6A performance requirements
- ISO/IEC 11801 and TIA/EIA568 compliant
- Available with flame retardant LSZH Eca outer jacket
- Supplied in 305m boxes or 500m reels
- Printed metre marks

### Applications

- Cat6A/Class EA up to 500Mhz applications
- 1000Base-T, 2G FCBASE-T and 10G BASE-T applications
- Horizontal network installations
- Backwards compatible with Cat5e and Cat6 distribution systems

## Specifications

### CONSTRUCTION

Conductor	23AWG solid bare copper (0.570 ±0.05 mm)
Insulation	
Material	HDPE
Nom. OD.	1.03±0.1 mm
Minimum Thickness	0.20mm
Filler	
Material	RIPCORD
Construction	3*250D
Sheath	LSZH-Eca
Average Thickness	0.57 ±0.05 mm
Diameter	6.20mm ± 0.40mm
Colour	Optional

### PHYSICAL CHARACTERISTICS

Sheath Normal Temp Tensile Strength (Mpa)	≥10.0
Sheath Normal Temp Elongation (%)	≥125
Insulation Normal Temp Tensile Strength (Mpa)	≥16
Insulation Normal Temp Elongation (%)	≥300
Aging Condition (°C×Hrs)	100°C±2°C, 24h, 7d
Sheath After Aging Tensile Strength (Mpa)	≥8.0
Sheath After Aging Elongation (%)	≥100
Temperature Rating (°C)	-20°C to +75°C
Cold Bend ( -20±2°C×4)	8× Cable O.D. No visible cracks

## Transmission Line Performance

FREQUENCY (MHZ)	RL ≥dB	ATT ≤dB	NEXT ≥dB	ACRF ≥dB	PS NEXT dB	PS ACRF dB
4	19.0	4.2	63.0	53.2	60.5	48.2
8	19.0	5.8	58.2	45.2	55.6	42.2
10	19.0	6.5	56.6	43.3	54.0	40.3
16	18.0	8.2	53.2	39.2	50.6	36.2
20	17.5	9.2	51.6	37.2	49.0	34.2
25	17.0	10.2	50.0	35.3	47.3	32.3
31.25	16.5	11.5	48.4	33.4	45.7	30.4
62.5	14.0	16.4	43.4	27.3	40.6	24.3
100	12.0	20.9	39.9	23.3	37.1	20.3
200	9.0	30.1	34.8	17.2	31.9	14.2
250	8.0	33.9	33.1	15.3	30.2	12.3
300	6.6	40.6	30.3	12.5	27.3	9.4
400	6.0	46.5	27.3	10.2	24.4	7.2
500	6.0	49.3	26.1	9.3	23.2	6.3

### Standards Compliance

- Class EA / Category 6A
- ISO/IEC 11801 2nd Edition
- ANSI/TIA 568-C.2
- EN 50173
- IEC 61156-5
- EN 50288-3-1
- IEC 60332-1-2
- IEC 60754-2
- IEC 61034
- RoHS
- REACH
- CPR (Eca)

### Ordering Information

DESCRIPTION	PART NUMBER
CAT6A U/UTP 23 AWG LSZH Eca Cable Yellow - 305m box	OCC-6A-11-305-3.1