



Category 6A U/UTP - Unshielded Twisted Pair PVC 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 PVC outer jacket.

Features

- 23 AWG conductors
- Exceeds Cat6A performance requirements
- ISO/IEC 11801 and TIA/EIA568 compliant
- Available with PVC 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 (0.565 ±0.005 mm)
Insulation	
Material Nom. OD.	HDPE 1.02±0.05 mm
Filler Material Construction	RIPCORD 3*250D
Sheath	PVC
Thickness	0.70 ±0.05 mm
Diameter	7.0mm ± 0.3mm
Colour	Optional
Rip Cord	Yes

PHYSICAL CHARACTERISTICS

Sheath Normal Temp Tensile Strength (Mpa)	≥13.5
Sheath Normal Temp Elongation (%)	≥150
Insulation Normal Temp Tensile Strength (Mpa)	≥20
Insulation Normal Temp Elongation (%)	≥250
Aging Condition (°C×Hrs)	100°C±2°C, 24h, 7d
Sheath After Aging Tensile Strength (Mpa)	≥12.5
Sheath After Aging Elongation (%)	≥125
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
- RoHS
- REACH

Ordering Information

DESCRIPTION	PART NUMBER
CAT6A U/UTP 23 AWG PVC Cable Grey - 305m box	OCC-6A-12-305
CAT6A U/UTP 23 AWG PVC Cable Grey - 500m reel	OCC-6A-12-500
CAT6A U/UTP 23 AWG PVC Cable Blue - 305m box	OCC-6A-12-305-2
CAT6A U/UTP 23 AWG PVC Cable Blue - 500m reel	OCC-6A-12-500-2
CAT6A U/UTP 23 AWG PVC Cable Yellow - 305m box	OCC-6A-12-305-3
CAT6A U/UTP 23 AWG PVC Cable Yellow - 500m reel	OCC-6A-12-500-3
CAT6A U/UTP 23 AWG PVC Cable Green - 305m box	OCC-6A-12-305-4
CAT6A U/UTP 23 AWG PVC Cable Green - 500m reel	OCC-6A-12-500-4
CAT6A U/UTP 23 AWG PVC Cable Red - 305m box	OCC-6A-12-305-5
CAT6A U/UTP 23 AWG PVC Cable Red - 500m reel	OCC-6A-12-500-5
CAT6A U/UTP 23 AWG PVC Cable Orange - 305m box	OCC-6A-12-305-8
CAT6A U/UTP 23 AWG PVC Cable Orange - 500m reel	OCC-6A-12-500-8

Additional Images

