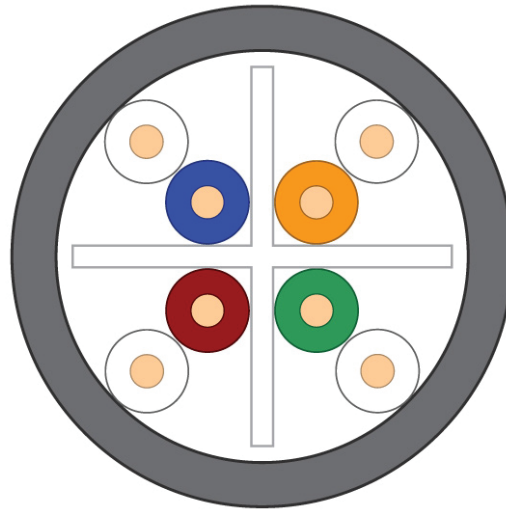


CAT6A-U-UTP-23AWG-PVC-Cable

TN5005C6A23UTPC



Product Description

CAT6A-U-UTP-23AWG-PVC-Cable with $4 \times 2 \times 23$ AWG copper wire structure fully complies with ISO/IEC 11801 and TIA/EIA 568 standards. OptronicsPlus Catta U/UTP cable exceeds CatA/Class EA performance requirements and supports 10G-BASE-T, 2G FBASE-T, 4G FBASE-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
- 1000BaseT, 2G FBASE-T and 10GBASE T applications
- Horizontal network installations
- Backwards compatible with Cat 5e and Cat6 distribution systems

Specifications

CONSTRUCTION	
Conductor	23AWG solid copper
Insulation	Expanded Polythylene
Cable	8 insulated wires formed into 4 pairs.
Sheath	PVC
Diameter	6.9mm ± 0.3mm
Electrical properties at 20 °C	
Characteristic Impedance (1-100MHz)	100 ± 15Ω
Characteristic Impedance (100-250MHz)	100 ± 18Ω
DC loop resistance	≤ 19.0Ω/100m
Resistance unbalance	≤ 2%
Capacitance unbalance to earth	≤ 1600pF/km
Delay Skew	≤ 40ns/100m @ 100MHz
Nominal velocity of propagation	78%
Propagation delay (Nominal)	≤ 534ns/100m
Test voltage (d.c. for 1 minute) Conductor/Conductor	1000V
Insulation resistance (500V d.c.)	≥ 500MΩ.km
Coupling attenuation	≥ 55dB
Mechanical Characteristics Temperature Range	
Operation	-20°C to + 60°C
Installation	0°C to + 50°C
Storage	-20°C to + 70°C
Maximum Tensile Force	
During Installation	100N
Minimum Bend Radius	
Installation	8 x Cable Diameter
Installed	8 x Cable Diameter

Transmission Line Performance At 20°C

FREQUENCY (MHZ)	ATTENUATION DB/100M	NEXT DB	ACR DB	MIN DB PSNEXT	MIN DB ELFEXT	MIN DB PSELFEXT	MIN DB PSANEXT	MIN DB RETURN LOSS
1	1.8	95.0	93.2	95.0	68.0	65.0	-	-
4	3.8	66.3	62.5	66.3	58.0	55.0	76.5	23
10	5.9	60.3	54.4	60.3	50.0	47.0	72.5	25
20	8.4	55.8	47.4	55.8	44.0	41.0	69.5	25
62.5	15.0	48.4	33.4	48.4	34.1	31.1	64.5	21.5
100	19.1	45.3	26.2	45.3	30.0	27.0	62.5	20.1
250	31.1	29.3	8.2	39.3	22.0	19.0	56.5	17.3
500	45.3	34.8	-10.5	34.8	16.0	13.0	52.0	17.3

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
CAT6a U/UTP 23 AWG PVC Cable Grey / White 305m box
CAT6a U/UTP 23 AWG PVC Cable Grey / White 500m reel