

NETCON Category 6 Cable comply with requirements as per standards ANSI/-TIA 568-C.2, ISO/IEC11801 ED.2 and EN 50173-1m. This confirms that the complete Category 6 Channel meets corresponding protocols & communication standards. For horizontal network and voice application in a structured cabling system.

DESIGN

Conductor: Copper, solid, bare, AWG 23
Core insulation: PE

Core Stranding: Cores twinned to pairs
pairs laid up to Cable,

Core Sheath: PVC or Halogen-free compound (FRNC)

Colour: Grey / Blue / White / Orange

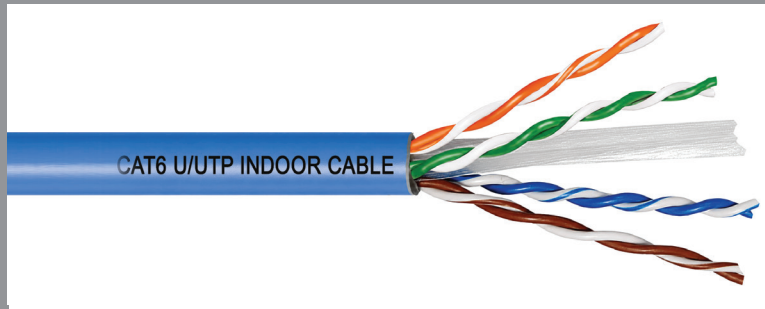
Structure cabling for horizontal and building backbone Cat.6. Transmission of digital and analogue for data, and audio applications.

SPECIFICATIONS

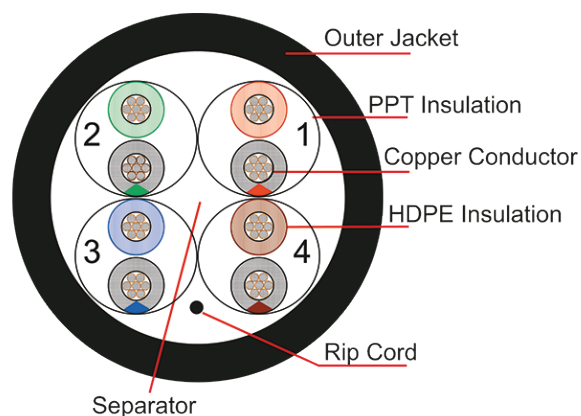
Sheath thickness appr.	0.60mm
Diameter appr.	6.5mm
Cable weight ca.	52 kg/km
Copper index	20kg/km
Cable Length	305m/ 500m
Calorific potential	420MJ/km

CAT.6 U/UTP INDOOR CABLE

23 AWG, 250 MHz



CAT.6/UTP 23AWG INDOOR CABLE



CORE IDENTIFICATION

Pair 1:  Blue  White Pair 2:  Orange  White
Pair 1:  Green  White Pair 2:  Brown  White

ELECTRICAL SPECIFICATIONS

ANSI/TIA	Category 6
(Conductor) loop resistance max	15Ω/100m
Insulation resistance min.	5GΩx km
Char. impedance	1-100 MHz 100 ±15 Ω.
Char. impedance	100-250 MHz 100 ±22 Ω
Char. impedance	250-500MHz 100 ±25Ω
Mutual capacitance min.	50nF/km
Coupling attenuation	≤1000MHz min. 45dB
Mutual capacitance nom.	50 nF/km
Relative propagation velocity ca	0.67 c
Test voltage	700 V-AC

Thermal & Mechanical Property

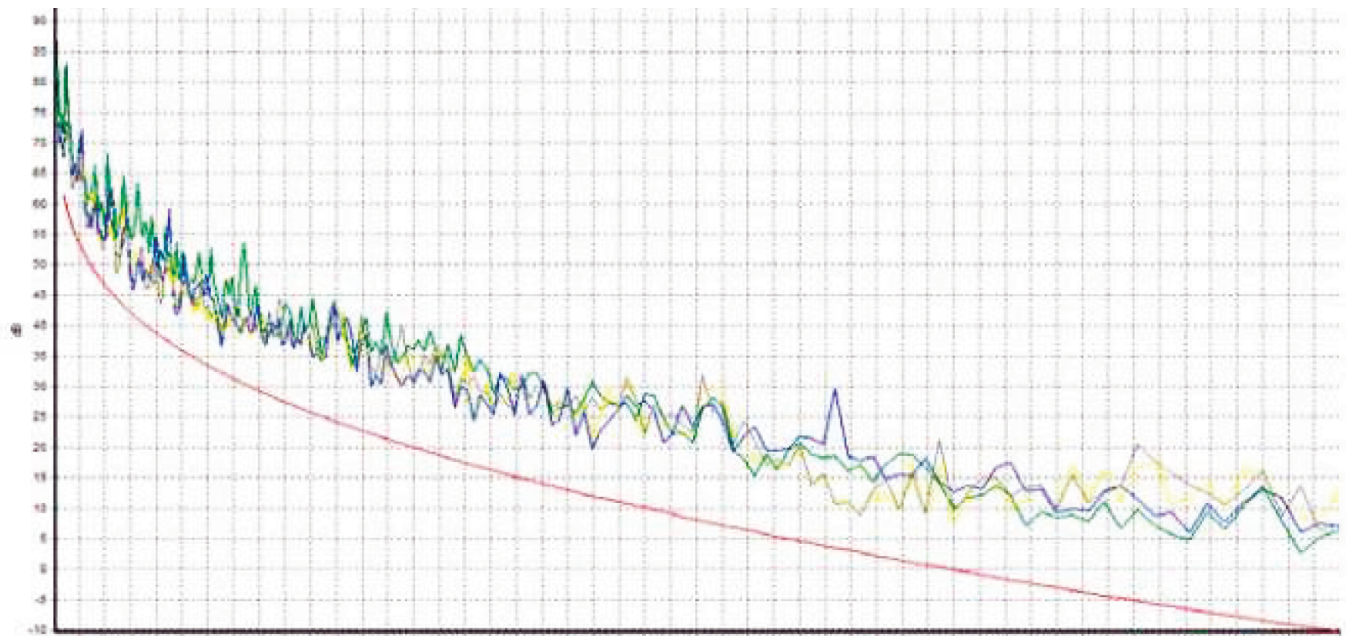
Temperature range during installation	0°C to +70°C
Temperature range stationary	-20°C to +70°C
Min. bending radius under tensile load	8 x diameter Min.
Bending radius without tensile load	4 x diameter
Maximum traction	90N

Standards

EN 50288-5-1 • EN 50288-11-1 • IEC 61156-5 • EN 50173-1 • ISO/IEC 11801 2.Edition. IEC 60332-1 • EN 50575 • IEC 60754-2 • EN 61034 • IEC 61034 EN 13501-6 class Eca • RoHS 2011/65/EU • IEC 60811-2

Transmission Characteristics

(MHz)	Attenuation (dB/100m)	NEXT (dB)	PSANEXT (dB)	ACR (dB/100m)	EL-FEXT (dB/100m)	RL (dB)
	NOM	NOM	NOM	NOM	NOM	NOM
1	1.8	87	67	85.2	85	27
4	3.5	76	67	72.5	72	24
10	5.6	72	67	66.4	63	30
16	7	70	67	63	60	30
20	7.9	68	67	60.1	58	30
31.25	9.9	66	67	56	54	30
100	18.2	63	62.5	44.8	43	30
155	22.9	60	59.5	37.1	40	28
200	26	57	58	31	38	27
300	32.3	55	55.3	22.7	36	25
400	35.7	54	53.5	18.3	35	23
500	39.8	33	52	13.2	34	22

ACR Power sum (dB/100m)**ORDERING INFORMATION**

NTC6U23P Netcon, Category 6, U/UTP 250MHz installation cable, Solid Copper, 23 AWG, 305 Metre Box, PVC jacket

NTC6U23L Netcon, Category 6, U/UTP, 250MHz installation cable, Solid Copper, 23 AWG, 305 Metre Box, LSZH jacket,