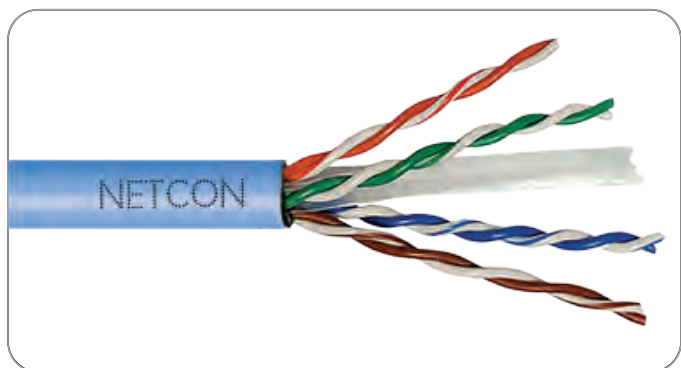




APPLICATION

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 Intercom etc.

CABLE CONSTRUCTION

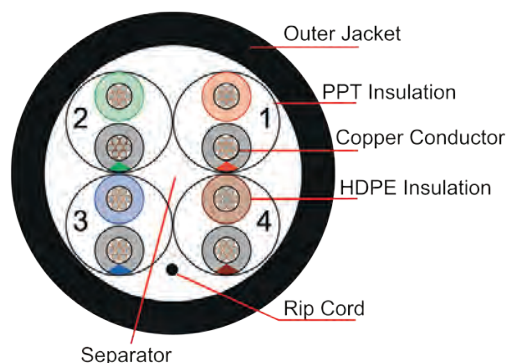
Conductor : Copper, solid, bare, AWG 23

Core insulation: PE

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

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

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



Color Code

Pair	Color	Pair	Color
1	White / Blue + Blue	3	White / Green + Green
2	White / Orange + Orange	4	White / Brown + Brown

DIMENSIONS

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

ELECTRICAL CHARACTERISTICS

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

THERMAL & MECHANICAL PROPERTY

Temperature range during installation	0°C to +70°C
Temperature range stationery	-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

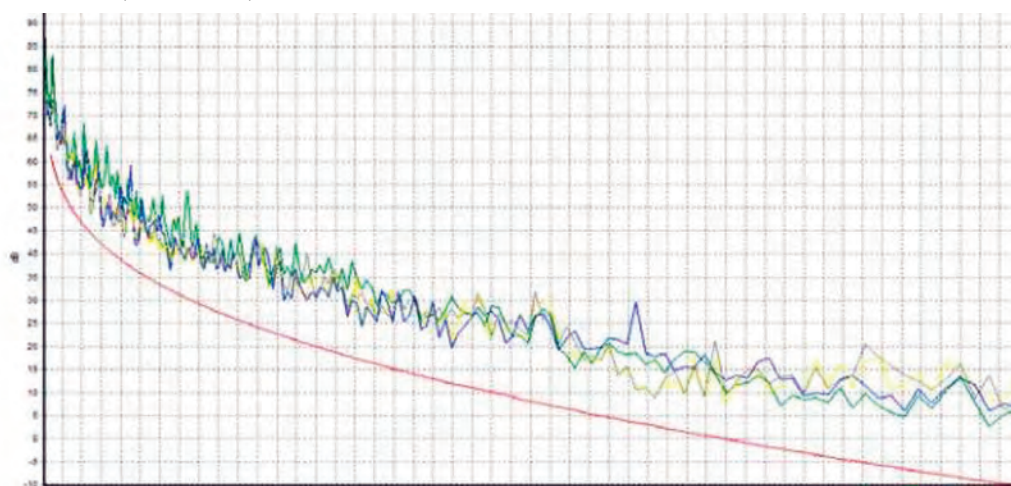
STANDARDS

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

Part No.	Description
NTVC6AU23P	Voltan, Category 6A, U/UTP 500MHz , Solid Copper, 23 AWG, 305 Metre Box,PVC jacket, Blue
NTVC6AU23L	Voltan, Category 6A, U/UTP, 500MHz, Solid Copper, 23 AWG, 305 Metre Box,LSZH jacket, Blue

Note: NTV- Series , C6A - category 6A cable , U- UTP, 23- 23 AWG, P- PVC, L- LSZH Jacket