

Category 6 UTP Plenum Cable 23AWG

Category 6 Unshielded Twisted Pair Plenum Cable, UL Listed, RoHS Compliant

Infinique's Category 6 UTP Plenum cable can be used to design up to 100 meter channel links with cables and patch cord lengths, offering maximum flexibility, minimizing excess cable and patch cord lengths. It is a CMP cable (Communications Multipurpose Cable, Plenum) complies with the most demanding of UL fire protection standard UL910. Designed to restrict flame propagation to no more than five feet and to limit the amount of smoke emitted during a fire, these cables are deployed in plenum spaces such as ventilation ducts, under raised floors, etc. As smoke and fire can spread quickly through plenum spaces and cause damage to people and property, plenum cables are essential to prevent the fire from spreading out in these spaces.

It provides considerable margin above all electrical transmission performance requirements complies with ANSI/ TIA-568-C.2 and ISO/IEC 11801. The Category 6 UTP Plenum

Cable is UL listed.

Features and Benefits

Certification

UL Listed for most demanding fire protection standard UL910. Complies with performance standards as per ANSI/TIA-568-C.2 and ISO/IEC 11801

Reliable Performance

Channel performance in a 4-connector configuration up to 100 meters and meets ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E standards at swept frequencies up to 250MHz

Higher Bandwidth

100 Ohm 4-pair construction with center spacer provides the extra margin of performance required for high bandwidth applications

Performance Warranty

Qualifies for the Infinique's 25 Years System Performance Link Warranty

With guaranteed significant channel margin over the entire frequency range, from 1 to 550 MHz for the entire channel link, Infinique Cat.6 UTP Plenum cable can transmit data, voice, video and PoE Power over Ethernet standard (POE 802.3af) allowing data and power connection for POE equipments. Infinique Category 6 UTP Plenum cable is backwards compatible and provides flexibility to protect network investments well into the future. It is certified to the ANSI/TIA-568-C.2 Category 6 and ISO 11801 Class E standards and supports applications such as, Ethernet 10BASE-T, 100BASE-T (Fast.Ethernet), 1000BASE-T (Gigabit Ethernet as specified in 10GBASE-T standards), 155 Mb/s ATM, 622 Mb/s ATM, 1.2 Gb/s ATM and Token Ring 4/16. Collectively with other Infinique's Category 6 products, Cat.6 UTP Plenum Cable is the right solution for voice, data and video transmission needs. The Category 6 UTP Cable is offered in CMX and LSOH jackets in 1640 ft (500 m) reels to accommodate various installation requirements.

CABLE CONSTRUCTION







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ELECTRICAL SPECIFIC	ATIONS					
DC Resistance	<9.5Ω /100m					
DC Resistance Unbalance (%)	5.0					
Nutual Capacitance	5.6 nF/100m					
Capacitance Unbalance	<330 F/100m					
Characteristic Impendence	$1 - 100$ MHz: 100 $\Omega \pm 15\%$; 1 - 350MHz: 100 $\Omega \pm 18\%$; 1 - 500MHz: 100 $\Omega \pm 25\%$,					
nsulation Resistance	> 5000 MQ x km					
Propagation Speed	10MHz (NVP*c): 0,79c					
NVP Value						
Signal propagation Delay	>10MHz: 4,2ns/m					
Delay Skew	<45ns/100m					
MATERIAL SPECIFICATI	IONS					
Conductor	Solid Bare Copper 23 AW	/G, Ø 0.57±0.05mm				
nsulation	Material: Fluorinated Ethylene Polymer (FEP); Ø (mm): 0.95±0.05mm; Thickness: 0.387±0.005mm					
Cabling	Four Unshielded Twisted Pairs					
Pairing	1 - Blue/White-Blue; 2 - Orange/White-Orange; 3 - Green/White-Green; 4 - Brown/White-Brown					
pacer	Fluorinated Ethylene Polymer (FEP)					
Rip Cord	Nylon Thread					
Duter Jacket	CMP PVC Jacket; Diameter: 6.0 ±0.4mm; Thickness: 0.45 ±0.05mm; Green RAL6037					
ire Protection	CMP, Safety Standard: UL 910					
Pulling Tension Max	110N (25lbf)					
Bend Radius	One Time: 4 x O.D. Installation: 8 x O.D.					
Operating Temperature	-20°C to 60°C					
Horage Temperature	-20°C to 75°C					
nstallation Temperature	0°C to 60°C					
MECHANICAL PROPER	TIES					
	Before Aging Tensile Strer	ngth (Mpa) >=13.5				
est Material CMP PVC	Before Aging Elongation (%) ≥ 150 Aging Period (°C x h x days) 100 x 24h x 7d					
	After Aging Tensile Strength (Mpa) $>=12.5$					
	After Aging Elongation (%) ≥ 125					
	Cold Bend (-20+2°C x 4h		racks			
RANSMISSION PERFO	RMANCE					
Frequency	Attenuation	NEXT	PS NEXT	ELFEXT	PS ELFEXT	RL
(MHz)	(dB/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)	(dB)
1	1.9	74.3	72.3	67.8	64.8	20.0
4	3.7	65.3	63.3	55.8	57.7	23.0
10	5.9	59.3	57.3	47.8	44.8	25.0
16	7.5	56.3	54.3	43.7	40.7	25.0
20	8.4	54.8	52.8	41.8	38.7	25.0
31.25	10.6	51.9	49.9	37.9	34.9	23.6
62.5	15.4	47.4	45.4	31.9	28.8	21.5
100	19.8	44.3	42.3	27.8	24.8	20.1
150	25.1	41.4	39.4	23.9	20.9	18.8
200	29.0	39.8	37.8	21.8	18.7	18.0
250	32.8	38.3	36.3	19.8	16.8	17.3
350*	39.8	36.1	34.1	16.9	13.9	16.3
400*	43.0	35.3	33.7	15.7	12.7	15.9
450*	46.3	34.5	32.6	14.7	11.7	15.5
400		33.8	31.8	13.8	10.8	15.2
500*	48.9	00.0				
	48.9 51.8	33.2	31.2	12.9	9.9	14.9
500* 550*	51.8	33.2		12.9	9.9	14.9
500* 550* Frequency values above industry	51.8	33.2		12.9	9.9	14.9
500* 550* Frequency values above industry STANDARDS	51.8 standards are for information	33.2 n only.		12.9	9.9	14.9
500* 550* Frequency values above industry STANDARDS Aleets or Exceeds ANSI/TIA-568-C.2	51.8 standards are for information 2 and ISO/IEC 11801 Class E (33.2 n only.		12.9	9.9	14.9
500* 550* Frequency values above industry STANDARDS Meets or Exceeds ANSI/TIA-568-C. CMP UL Fire Protection Standard L EN 50173 MICE Environmental Rec	51.8 standards are for information 2 and ISO/IEC 11801 Class E (JL910 quirements	33.2 n only.		12.9	9.9	14.9
500* 550* Frequency values above industry TANDARDS /leets or Exceeds ANSI/TIA-568-C. CMP UL Fire Protection Standard L N 50173 MICE Environmental Rec	51.8 standards are for information 2 and ISO/IEC 11801 Class E (JL910 quirements	33.2 n only.		12.9	9.9	14.9
500* 550* Frequency values above industry TANDARDS leets or Exceeds ANSI/TIA-568-C. MP UL Fire Protection Standard L N 50173 MICE Environmental Rec ame Retardant as per IEC 6033	51.8 standards are for information 2 and ISO/IEC 11801 Class E (JL910 quirements 2-1 and EN 50266-2-1	33.2 n only.		12.9	9.9	14.9
500* 550* Frequency values above industry TANDARDS Meets or Exceeds ANSI/TIA-568-C. CMP UL Fire Protection Standard L N 50173 MICE Environmental Rec ame Retardant as per IEC 6033 Ion Corrosive as per IEC 60754-2	51.8 standards are for information 2 and ISO/IEC 11801 Class E (JL910 quirements 2-1 and EN 50266-2-1	33.2 n only.		12.9	9.9	14.9
500* 550* Frequency values above industry TANDARDS Meets or Exceeds ANSI/TIA-568-C.2 CMP UL Fire Protection Standard L N 50173 MICE Environmental Rec Iame Retardant as per IEC 6033 Ion Corrosive as per IEC 60754-2 PACKING	51.8 standards are for information 2 and ISO/IEC 11801 Class E (JL910 quirements 2-1 and EN 50266-2-1 and EN 50267	33.2 n only. Channel standards	31.2		9.9	14.9
500* 550* Frequency values above industry TANDARDS Meets or Exceeds ANSI/TIA-568-C.2 MP UL Fire Protection Standard L N 50173 MICE Environmental Rec Iame Retardant as per IEC 6033 Ion Corrosive as per IEC 60754-2 PACKING Meter Marking: INFINIQUE CANAD	51.8 standards are for information 2 and ISO/IEC 11801 Class E (JL910 quirements 2-1 and EN 50266-2-1 and EN 50267 A CAT.6 UTP PLENUM 4PR 23 A	33.2 n only. Channel standards	31.2		9.9	14.9
500* 550* Frequency values above industry TANDARDS Meets or Exceeds ANSI/TIA-568-C.2 CMP UL Fire Protection Standard L N 50173 MICE Environmental Rec lame Retardant as per IEC 6033 Jon Corrosive as per IEC 60754-2 PACKING Meter Marking: INFINIQUE CANAD 500m (1640ft), 305m (1000ft), 152	51.8 standards are for information 2 and ISO/IEC 11801 Class E (JL910 quirements 2-1 and EN 50266-2-1 and EN 50267 DA CAT.6 UTP PLENUM 4PR 23 A 2m (500ft) packed in reels	33.2 n only. Channel standards	31.2		9.9	14.9
500* 550* Frequency values above industry TANDARDS Meets or Exceeds ANSI/TIA-568-C.2 MP UL Fire Protection Standard L N 50173 MICE Environmental Rec lame Retardant as per IEC 6033 lon Corrosive as per IEC 60754-2 CACKING Meter Marking: INFINIQUE CANAD 00m (1640ft), 305m (1000ft), 152 DRDERING INFORMAT	51.8 standards are for information 2 and ISO/IEC 11801 Class E (JL910 quirements 2-1 and EN 50266-2-1 and EN 50267 DA CAT.6 UTP PLENUM 4PR 23 A 2m (500ff) packed in reels ION	33.2 n only. Channel standards	31.2		9.9	14.9
500* 550* Frequency values above industry TANDARDS Meets or Exceeds ANSI/TIA-568-C.2 MP UL Fire Protection Standard L N 50173 MICE Environmental Rec Jame Retardant as per IEC 6033 Ion Corrosive as per IEC 6033 Ion Corrosive as per IEC 60754-2 PACKING Meter Marking: INFINIQUE CANAD 00m (1640ft), 305m (1000ft), 152 DRDERING INFORMATI art Number	51.8 standards are for information 2 and ISO/IEC 11801 Class E of JL910 quirements 2-1 and EN 50266-2-1 and EN 50267 A CAT.6 UTP PLENUM 4PR 23 A 2m (500ft) packed in reels ION Description	33.2 n only. Channel standards AWG, CMP UL LISTED +	31.2 ****m +PRODUCTION	DATE SN		14.9
500* 550* Frequency values above industry TANDARDS Meets or Exceeds ANSI/TIA-568-C.2 CMP UL Fire Protection Standard L N 50173 MICE Environmental Rec Jame Retardant as per IEC 6033 Ion Corrosive as per IEC 60754-2 PACKING Meter Marking: INFINIQUE CANAD 00m (1640ft), 305m (1000ft), 152 DRDERING INFORMATI art Number NC6U4GRP-500	51.8 standards are for information 2 and ISO/IEC 11801 Class E (JU910 quirements 2-1 and EN 50266-2-1 and EN 50267 DA CAT.6 UTP PLENUM 4PR 23 A 2m (500ft) packed in reels ION Description Category 6 UTP Plenum (33.2 n only. Channel standards AWG, CMP UL LISTED + Cable, 23 AWG Cable,	31.2 ****m +PRODUCTION CMP, UL Listed, RoHS C	DATE SN Compliant, Green, 500	m	
500* 550* Frequency values above industry TANDARDS leets or Exceeds ANSI/TIA-568-C.2 MP UL Fire Protection Standard L N 50173 MICE Environmental Rec ame Retardant as per IEC 6033 on Corrosive as per IEC 6033 on Corrosive as per IEC 60354-2 ACKING leter Marking: INFINIQUE CANAD 00m (1640ft), 305m (1000ft), 152 DRDERING INFORMATI art Number	51.8 standards are for information 2 and ISO/IEC 11801 Class E of JL910 quirements 2-1 and EN 50266-2-1 and EN 50267 A CAT.6 UTP PLENUM 4PR 23 A 2m (500ft) packed in reels ION Description	33.2 n only. Channel standards AWG, CMP UL LISTED + Cable, 23 AWG Cable, Cable, 23 AWG Cable,	31.2 *****m +PRODUCTION CMP, UL Listed, RoHS C CMP, UL Listed, RoHS C	DATE SN Compliant, Green, 500 Compliant, Green, 305	m m	



Infinique, a Canadian company is a manufacturer of high performing end-to-end solutions in copper, fiber and video surveillance systems. For more information visit our website at www.infinique.com or email us at sales@infinique.com.