



### UTP Cat 6 4-pair Cable CMX - PVC Jacket

Conductor	Size	23 AWG x 4P
	Material	Bare Copper
	Construction	1/0.55 ± 0.005mm
Insulation	Material	HDPE
	Minimum Average Thickness	0.19mm
	Minimum Thickness at any point	0.18mm
	Diameter	0.95 ± 0.05mm
	Identification	Blue - White / Blue Orange – White / Orange Green – White / Green Brown – White / Brown
Core Assembly	Core Twist	2 Core twist
	Slot	PE
	Assembly pair	4 pair assembly
Jacket	Material	PVC – CMX - UV
	Minimum Average Thickness	0.45mm
	Minimum Thickness at any point	0.43mm
	Overall diameter (aprox.)	6.0 ± 0.2mm
	Color	Black
Standards	UL444, ANSI/TIA-568.2.D, ISO/IEC 11801	

#### Electrical and physical properties:

Conductor resistance	<b>9.38 <math>\Omega</math>/100m 20°C max.</b>		
Mutual capacitance	5.6 nF/m max.		
DC resistance unbalance	5% max.		
Pair-to-ground Capacitance Unbalance	330 pF/100m Max		
Dielectric Strength	AC 1.5kv / 2sec		
Spark Test	2.5 KV		
Cold Bend test	-20°C x 4hrs No cracks		
Insulation	Unaged	Tensile Strength	2400 PSI min. (1.68kg/mm <sup>2</sup> )
		Elongation	300% Min.
	Aged	Tensile Strength	Min. 75% (100°C x 48hrs)
		Elongation	Min. 75% (100°C x 48hrs)
Jacket	Unaged	Tensile Strength	2000 PSI Min. (1.41kg/mm <sup>2</sup> )
		Elongation	100% Min.
	Aged	Tensile Strength	Min. 85% (100°C x 240hrs)
		Elongation	Min. 50% (100°C x 240hrs)
Installation Temperature	0°C to 60°C		
Operating Temperature	-20°C to 60°C		
Minimum bending radius	$\geq 4$ times of overall diameter		
Maximum pulling tension	$\leq 110$ N		

Freq.	RL MIN,	ATT.	NEXT	PSNEXT	ACRF.	Propagation	Delay Skew
MHz	(dB/100m)	MAX.	MIN.	MIN.	MIN.	Delay Max.	Max.
1	20.0	2.0	74.3	72.3	67.8	64.8	570.0
4	23.0	3.8	65.3	63.3	55.8	52.8	552.0
10	25.0	6.0	59.3	57.3	47.8	44.8	545.4
16	25.0	7.6	56.2	54.2	43.7	40.7	543.0
20	25.0	8.5	54.8	52.8	41.8	38.8	542.0
31.25	23.6	10.7	51.9	49.9	37.9	34.9	540.4
62.5	21.5	15.4	47.4	45.4	31.9	28.9	538.6
100	20.1	19.8	44.3	42.3	27.8	24.8	537.6
200	18.0	29.0	39.8	37.83	21.8	18.8	536.5
250	17.3	32.8	38.3	36.3	19.8	16.8	536.3

#### Ordering Information:

Part Number	Description
NEW-9806361	Cat-6 4-pair UTP Cable PVC-CMR Jacket with UV protection 1,000ft Black