



DESCRIPTION: UTP 23AWG X4P (SOLID) CAT 6E CMP

STYLE	75°C 300V COMMUNICATION CABLE		DOCUMENT NO :	
SIZE	FTP 23AWGx4P		ESTABLISHED DATE :	
STANDARD : UL444 & ISO/IEC 11801 & TIA-568-C.2 CAT 6; 2002/95/EC(RoHS)				
APPLICATION : LOCAL AREA NETWORK CABLE ARE SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF TRANSFER FOR HORIZONTAL NETWORK				
CONSTRUCTION :				
CONDUCTOR	SIZE		23AWG	
	CONSTRUCTION		SOLID BARE COPPER	
INSULATION	BLUE ,GREEN	NOM THICK	0.245	mm
	DIAMETER		1.04 ±0.02	mm
	ORANGE,BROWN	NOM THICK	0.225	mm
	DIAMETER		1.00 ±0.02	mm
	MATERIAL		FEP	
	COLOR CODES		1.BLUE × WHITE/BLUE STRIPE 2.ORANGE × WHITE/ORANGE STRIPE 3.GREEN × WHITE/GREEN STRIPE 4.BROWN × WHITE/BROWN STRIPE	
SHIELDED	PAIR STRANDED		2 CORES STRANDED	
	FILLER(SLOT)		FEP ISOLATOR SEPARATOR	
	ASSEMBLY STRANDED		4 PAIR STRANDED	
	SHIELDED		MYLAR TAPE	
	DRAIN WIRE		TINNED COPPER	
	SHIELDED		AL-MYLAR TAPE	
JACKETED	AVG. THICK.		0.43	mm
	MIN. THICK.		0.40	mm
	DIAMETER		6.70 ±0.20	mm
	MATERIAL		FR PVC (LOW SMOKE)	
	COLOR		GRAY OR OTHER COLOR	
PACKAGING				



ELECTRICAL & PHYSICAL PROPERTIES :			
ITEM		23 AWG × 4P	
RATING TEMP. VOLTAGE		75°C 300V	
CONDUCTOR RESISTANCE		9.38 OHM/100m/20°C MAX.	
MUTUAL CAPACITANCE		56 pF/M MAX.	
DIELECTRIC STRENGTH		AC 1.5 KV/2 SEC.	
SPARK TEST		2.5 KV	
INSULATION	UNAGED	TENSILE STRENGTH	2500 PSI MIN.(1.76 KG/m m <sup>2</sup> )
		ELONGATION	200% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 75%(232°C×168HRS)
		ELONGATION	UNAGED MIN. 75%(232°C×168RS)
JACKETED	UNAGED	TENSILE STRENGTH	2000 PSI MIN.(1.41 KG/m m <sup>2</sup> )
		ELONGATION	100% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 85%(100°C×240HRS)
		ELONGATION	UNAGED MIN. 50%(100°C×240HRS)
INSULATION SHRINKBACK		150m/m, 121°C±1°C×1HR ≤ 9.5m/m	
COLD BEND TEST		-20°C×4HRS NO CRACK	
FLAME RETARDANT TEST		CMP	
AC LEAKAGE CURRENT THROUGH OVERALL JACKET		AC 1500V ≤ 10 mA	
DC RESISTANCE UNBALANCE		5% MAX.	
PAIR-TO-GROUND CAPACITANCE UNBALANCE		330 pF/100m MAX.	
PROPAGATION DELAY		400MHz 535.8nS/100m MAX.	
DELAY SKEW		1 ~ 400 MHz 40nS/100m MAX.	

## Electrical Performance

ITEM Frequency (MHz)	IL MAX. (dB/100m)	NEXT MIN. (dB)	ACR MIN. (dB)	PS. NEXT MIN. (dB)	PS. ACR MIN. (dB)	ACRF MIN. (dB/100m)	PS. ACRF MIN. (dB/100m)	R.L. MIN. (dB)
1	2.0	74.3	72.3	72.3	70.3	67.8	64.8	20.0
4	3.8	65.3	61.5	63.3	59.5	55.7	52.7	23.0
8	5.3	60.8	55.5	58.8	53.3	49.7	46.7	24.5
10	6.0	59.3	53.3	57.3	51.3	47.8	44.8	25.0
16	7.6	56.3	48.7	54.3	46.7	43.7	40.7	25.0
20	8.5	54.8	46.3	52.8	44.3	41.7	38.7	25.0
25	9.6	53.3	43.7	51.3	41.7	39.8	36.8	24.3
31.25	10.7	51.9	41.2	49.9	39.2	37.9	34.9	23.6
62.5	15.4	47.4	32.0	45.1	30.0	31.8	28.8	21.5
100	19.8	44.3	24.5	42.3	22.5	27.8	24.8	20.1
155	25.1	41.5	16.4	39.5	14.4	23.9	20.9	18.8
200	29.0	39.8	10.8	37.8	8.8	21.7	18.7	18.0
250	32.8	38.3	5.5	36.3	3.5	19.8	16.8	17.3
300	36.4	37.2	0.8	35.2	0	18.2	15.2	16.8
400	43.0	35.3	NA	33.3	NA	15.7	12.7	15.9

