



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

STYLE	75°C 300V COMMUNICATION CABLE	DOCUMENT NO : TUR2304X
SIZE	UTP 23AWG×4P	ESTABLISHED DATE :
STANDARD : UL444 & ISO/IEC 11801 & TIA-568-C.2 CAT 6 ;2002/95/EC(RoHS)		
APPLICATION : ULTRA HIGH-PERFORMANCE LAN CABLE ARE SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF TRANSFER FOR HORIZONTAL NETWORK		
CONSTRUCTION :		
CONDUCTOR	SIZE	23AWG
	CONSTRUCTION	SOLID BARE COPPER
	AVG. THICK.	0.193 mm
	MIN. THICK.	0.183 mm
	DIAMETER	0.94 ±0.02 mm
	MATERIAL	HDPE
	COLOR CODES	1. BLUE × WHITE/BLUE STRIPE 2. ORANGE × WHITE/ORANGE STRIPE 3. GREEN × WHITE/GREEN STRIPE 4. BROWN × WHITE/BROWN STRIPE
TWISTED	PAIR STRANDED	2 CORES STRANDED
	FILLER(SLOT)	FRPE ISOLATOR SEPARATOR
	ASSEMBLY STRANDED	4 PAIR STRANDED
JACKETED	AVG. THICK.	0.50 mm
	MIN. THICK.	0.45 mm
	DIAMETER	6.00 ±0.2 mm
	MATERIAL	FR PVC
	COLOR	GRAY OR OTHER COLOR



ELECTRICAL & PHYSICAL PROPERTIES :			
ITEM		23AWG × 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	2400 PSI MIN. (1.69 KG/m m ²)
		ELONGATION	300% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 75%(100°C×48HRS)
		ELONGATION	UNAGED MIN. 75%(100°C×48HRS)
JACKETED	UNAGED	TENSILE STRENGTH	2000 PSI MIN.(1.41 Kg/m m ²)
		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		CMR	
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		600 MHz 535.5nS/100m MAX.	
DELAY SKEW		1 ~ 600 MHz 45nS/100m MAX.	

Electrical performance

ITEM(dB) 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	76.3	74.3	74.3	72.3	67.8	64.8	20.0
4	3.8	67.3	63.5	65.3	61.5	55.7	52.7	23.0
8	5.3	62.8	57.5	60.8	55.5	49.7	46.7	24.5
10	6.0	61.3	55.3	59.3	53.3	47.8	44.8	25.0
16	7.6	58.3	50.7	56.3	48.7	43.7	40.7	25.0
20	8.5	56.8	48.3	54.8	46.3	41.7	38.7	25.0
25	9.5	55.3	45.8	53.3	43.8	39.8	36.8	24.3
31.25	10.7	53.9	43.2	51.9	41.2	37.9	34.9	23.6
62.5	15.4	49.4	34.0	47.4	32.0	31.8	28.8	21.5
100	19.8	46.3	26.5	44.3	24.5	27.8	24.8	20.1
155	25.1	43.5	18.4	41.5	16.4	23.9	20.9	18.8
200	29.0	41.8	12.8	39.8	10.8	21.7	18.7	18.0
250	32.8	40.3	7.5	38.3	5.5	19.8	16.8	17.3
300	36.4	39.2	2.8	37.2	0.8	18.2	15.2	16.8
400	43.0	37.3	NA	35.3	NA	15.7	12.7	15.9
550	51.8	35.2	NA	33.2	NA	12.9	9.9	14.9
600	54.5	34.6	NA	32.6	NA	12.2	9.2	14.7

