



DESCRIPTION

DESCRIPTION: UTP 24AWG X4P (SOLID) CAT 5E CM
 RECOGNIZED: UL - ETL

SPECIFICATION

STYLE	75°C 300V COMMUNICATION CABLE	DOCUMENT NO : TU M 2404P21
SIZE	UTP 24AWG×4P	ESTABLISHED DATE : Dec./11/2012
STANDARD : UL444 & EN50173 & ISO/IEC 11801 & TIA -568-C.2 CAT 5E		
APPLICATION : HIGH PERFORMANCE LAN CABLE ARE SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF TRANSFER FOR HORIZONTAL NETWORK		

CONSTRUCTION

CONDUCTOR	SIZE	24AWG
	CONSTRUCTION	SOLID BARE COPPER
INSULATION	AVG. THICK.	0.183 mm
	MIN. THICK.	0.173 mm
	DIAMETER	0.860 ± 0.02 mm
	MATERIAL	HD PE
	COLOR CODES	1.BLUE × WHITE/BLUE STRIPE 2.ORANGE × WHITE/ORANGE STRIPE 3.GREEN × WHITE/GREEN STRIPE 4.BROWN × WHITE/BROWN STRIPE
TWISTE D	PAIR STRANDED	2 CORES STRANDED
	ASSEMBLY STRANDED	4 PAIR STRANDED
JACKETED	AVG. THICK.	0.45 mm
	MIN. THICK.	0.41 mm
	DIAMETER	4.80 ± 0.2 mm
	MATERIAL	PVC
	COLOR	WHITE OR OTHER COLOR
	RIP CORD	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
PACKAGING	<input checked="" type="checkbox"/> ACCORDING TO CUSTOMER'S REQUEST	



ELECTRICAL & PHYSICAL PROPERTIES

ITEM		24AWG × 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 °C9.5m/m	
COLD BEND TEST		-20°Cx 4HRS NO CRACK	
FLAME RETARDANT TEST		CM	
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		350 MHz 53 5.9nS/100m MAX.	
DELAY SKEW		1 ~ 350 MHz 40nS/100m MAX.	

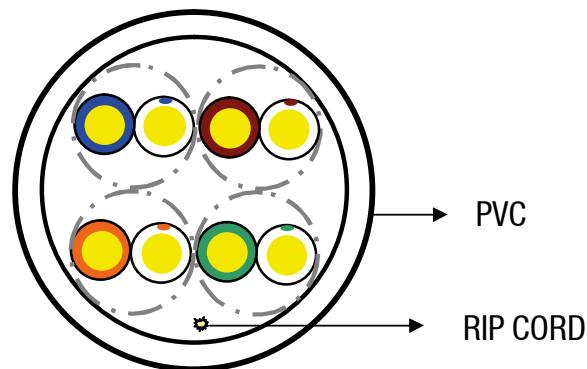


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ELECTRICAL PERFORMANCE

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	65.3	63.3	62.3	60.3	63.8	60.8	20.0
4	4.1	56.3	52.2	53.3	49.2	51.7	48.7	23.0
8	5.8	51.8	46.0	48.8	43.0	45.7	42.7	24.5
10	6.5	50.3	43.8	47.3	40.8	43.8	40.8	25.0
16	8.2	47.3	39.1	44.3	36.1	39.7	36.7	25.0
20	9.3	45.8	36.5	42.8	33.5	37.8	34.8	25.0
25	10.4	44.3	33.9	41.3	30.9	35.8	32.8	24.3
31.25	11.7	42.9	31.2	39.9	28.2	33.9	30.9	23.6
62.5	17.0	38.4	21.4	35.4	18.4	27.8	24.8	21.5
100	22.0	35.3	13.3	32.3	10.3	23.8	20.8	20.1
155	28.1	32.5	4.4	29.5	1.4	20.0	17.0	N.A
200	32.4	30.8	N.A	27.8	N.A	17.7	14.7	N.A
240	36	29.6	N.A	26.6	N.A	16.2	13.2	N.A
300	41	28.2	N.A	25.2	N.A	14.2	11.2	N.A
350	44.9	27.1	N.A	24.1	N.A	12.9	9.9	N.A



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