



## DESCRIPTION

DESCRIPTION: UTP 24AWG X4P (SOLID) CAT 6 LSZH  
RECOGNIZED: ETL

## SPECIFICATION

STYLE	75°C 300V COMMUNICATION CABLE	DOCUMENT NO : TUM2304X 16
SIZE	UTP 24AWG×4P	ESTABLISHED DATE : Feb./02/2021
STANDARD	: UL444 & prEN50288 -6-1 & ISO/IEC 11801 & TIA -568-C.2 CAT 6	
APPLICATION	: ULTRA 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. THIC K.	0.193 mm
	MIN. THICK.	0.183 mm
	DIAMETER	0.88 ± 0.05 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
TWI STED	PAIR STRANDED	2 CO RES STRANDED
	FILLER(SLOT)	PE ISOLATOR SEPARATOR
	ASSEMBLY STRANDED	4 PAIR STRANDED
JACKETED	AVG. THICK.	0.55 mm
	MIN. THICK.	0.45 mm
	DIAMETER	5.3 ± 0.20 mm
	MATERIAL	PVC
	COLOR	GRAY OR OTHER COLOR
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 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 <sup>2</sup> )
		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 <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°C 9.5m/m		
COLD BEND TEST	-20°C x 4HRS NO CRACK		
FLAME RETARDANT TEST	CM		
AC LEAKAGE CURRENT THROUGH OVERALL JACKET	H	AC 1500V ≤ 10 mA	
DC RESISTANCE UNBALANCE	5% MAX.		
PAIR -TO -GROUND CAPACITANCE UNBALANCE	330 pF/100m MAX.		
PROPAGATION DELAY	550 MHz 53 5.5nS/100m MAX.		
DELAY SKEW	1 ~ 550 MHz 45nS/100m MAX.		

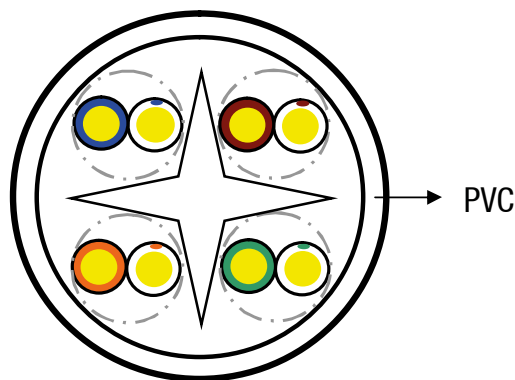


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ELECTRICAL PERFORMANCE

ITEM(dB) Frequency (MHz)	IL MA X. (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



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