

SPECIFICATION

DOCUMENT: T2404L5E-XX

STYLE: 75°C
COMMUNICATION CABLE

DESCRIPTION: UTP 24AWG X4P (SOLID)
CAT 5E CMR

RECOGNIZED: UL - ETL

weltron®

All Material According To SS-00259

STYLE	75°C COMMUNICATION CABLE	DOCUMENT NO : T2404L5E-XX
SIZE	UTP 24AWG×4P	ESTABLISHED DATE : Dec./16/2022
STANDARD : UL444&ISO/IEC 11801 & TIA-568-C.2 CAT 5E ; 2002/95/EC(RoHS)		
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
	AVG. THICK.	0.183 mm
	MIN. THICK.	0.173 mm
	DIAMETER	0.86 ± 0.02 mm
	MATERIAL	FRPE
	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
	ASSEMBLY STRANDED	4 PAIR STRANDED
JACKETED	AVG. THICK.	0.45 mm
	MIN. THICK.	0.41 mm
	DIAMETER	4.80 ± 0.20 mm
	MATERIAL	FR PVC
	COLOR	GRAY OR OTHER COLOR
	RIP CORD	☒ YES ☐ NO
PACKAGING	☒ ACCORDING TO CUSTOMER'S REQUEST	
	☐ ACCORDING WITH WONDERFUL HI-TECH CO.,LTD STANDARD	

AK001/210×297/1.0

EDITION : 1.0

MAKER : *H. C. KUO* CONFIRM : *C. Y. Chen*

REVISED DATE :

APPROVAL : *W. J. Wang*

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ELECTRICAL & PHYSICAL PROPERTIES :			
ITEM			24AWG × 4P
RATING TEMP. VOLTAGE			75°C
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
TEMPERATURE RATING INSTALLATION			0~50°C
TEMPERATURE RATING OPERATION			-20~60°C
DC RESISTANCE UNBALANCE			5% MAX.
PAIR-TO-GROUND CAPACITANCE UNBALANCE			330 pF/100m MAX.
PROPAGATION DELAY			350 MHz 535.9nS/100m MAX.
DELAY SKEW			1 ~ 350 MHz 45nS/100m MAX.
MARKING :			
WELTRON CAT 5E GIGASYSTEM TESTED TO 350MHz---E465248-001 UTP 4PR			
24AWG 75°C (UL) CMR---ETL VERIFIED TO TIA-568-C.2 MMYR RoHS			
COMPLIANT XXXXFT			

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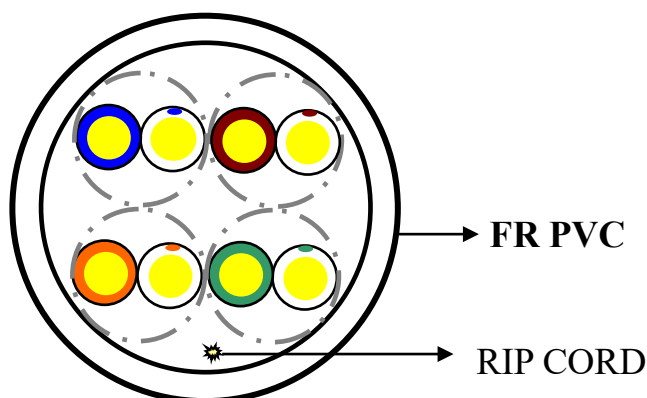
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Electrical Performance

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	18.8
200	32.4	30.8	0	27.8	N.A	17.7	14.7	18.0
240	36	29.6	N.A	26.6	N.A	16.2	13.2	17.4
300	41	28.2	N.A	25.2	N.A	14.2	11.2	16.8
350	44.9	27.1	N.A	24.1	N.A	12.9	9.9	16.3

Values above 200MHz are for Engineering Information Only



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