



SPECIFICATION FOR APPROVAL

DOCUMENT : T2404L6SHP-XX

STYLE : 75°C 300V
COMMUNICATION CABLE

SIZE: FTP 23AWG X4P (SOLID)
CAT 6 CMP

RECOGNIZED: UL 、 ETL

All Material According To SS-00259

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SPECIFICATION

STYLE	75°C 300V COMMUNICATION CABLE	DOCUMENT NO : TSP2304X
SIZE	FTP 23AWG×4P	ESTABLISHED DATE : Dec./16/2013
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	☒ PLYWOOD REEL	
	☐	

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			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	2500 PSI MIN.(1.76 KG/m m ²)
		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 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			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.
MARKING :			
WELTRON CAT 6 GIGASYSTEM TESTED TO 400MHZ---E465248-001 FTP 4PR 23AWG 75°C (UL) CMP---ETL VERIFIED TO TIA-568-C.2 MMY Y RoHS COMPLIANT XXXXFT			

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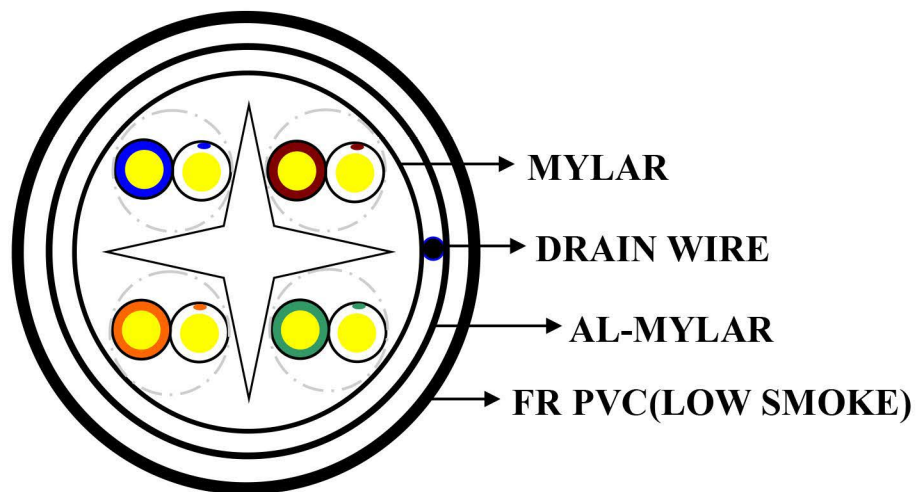
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Electrical Performance

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	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



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