



SPECIFICATION FOR APPROVAL

DOCUMENT : T2404L6SH-XX

STYLE : 75°C 300V
COMMUNICATION CABLE

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

RECOGNIZED: UL 、 ETL

All Material According To SS-00259

Weltron®

SPECIFICATION

STYLE	75℃ 300V COMMUNICATION CABLE		DOCUMENT NO : TSR2304X	
SIZE	FTP 23AWG×4P		ESTABLISHED DATE : Nov./19/2010	
STANDARD : UL444,1581 & ISO/IEC 11801 & TIA-568-C.2 CAT 6				
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	0.265	mm
	DIAMETER		1.08 ± 0.02	mm
	ORANGE,BROWN	NOM THICK	0.250	mm
	DIAMETER		1.05 ± 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	
SHIELDED	PAIR STRANDED		2 CORES STRANDED	
	FILLER(SLOT)		PE ISOLATOR SEPARATOR	
	ASSEMBLY STRANDED		4 PAIR STRANDED	
	SHIELDED		MYLAR TAPE	
	DRAIN WIRE		TINNED COPPER	
	SHIELDED		AL-MYLAR TAPE	
JACKETED	AVG. THICK.		0.45	mm
	MIN. THICK.		0.40	mm
	DIAMETER		7.20 ± 0.2	mm
	MATERIAL		FR PVC	
	COLOR		WHITE 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	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			400 MHz 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) CMR---ETL VERIFIED TO TIA-568-C.2 MMY Y RoHS COMPLIANT XXXXFT			

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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	55.3	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

