

SPECIFICATION FOR APPROVAL

DOCUMENT : TSX2404P03

STYLE : 75°C 300V
COMMUNICATION CABLE

SIZE: FTP 24AWG X4P (SOLID)
CAT 5E CMX

RECOGNIZED: UL. CSA .3P



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STYLE	75°C 300V COMMUNICATION CABLE	DOCUMENT NO : TSX2404P03
SIZE	FTP 24AWG×4P	ESTABLISHED DATE : 2008/1/22
STANDARD : UL444 & ISO/IEC 11801 & TIA/EIA-568-B.2 CAT 5E 2002/95/EC(RoHS)		
APPLICATION : LOCAL AREA NETWORK CABLE ARE SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF TRANSFER FOR OUTDOOR HORIZONTAL NETWORK		
CONSTRUCTION :		
CONDUCTOR	SIZE	24AWG × 4P
	CONSTRUCTION	SOLID BARE COPPER
	COND. DIAM.	1/0.540±0.008 mm
INSULATION	AVG. THICK.	0.255 mm
	MIN. THICK.	0.235 mm
	DIAMETER	1.03 ± 0.020 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 (SPLINE)	-----
	ASSEMBLY STRANDED	4 PAIR STRANDED
	WATERBLOCKING TAPE	20 × 0.28±0.02 mm
	DRAIN WIRE	0.510±0.008 mm (TINNED COPPER)
	AL-MYLAR TAPE	20 × 0.065±0.002 mm
JACKETED	AVG. THICK.	0.50 mm
	MIN. THICK.	0.45 mm
	DIAMETER	7.1 ± 0.20 mm
	MATERIAL	PE
	COLOR	BLACK



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ELECTRICAL & PHYSICAL PROPERTIES :			
ITEM			24AWG × 4P
RATING TEMP VOLTAGE			75°C 300V
CONDUCTOR RESISTANCE			93.8 OHM/Km/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 m²)
		ELONGATION	300% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 75%(100°C×48HRS)
		ELONGATION	UNAGED MIN. 75%(100°C×48HRS)
JACKETED	UNAGED	TENSILE STRENGTH	2400 PSI MIN.(1.69 Kg/m m²)
		ELONGATION	300% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 75%(100°C×48HRS)
		ELONGATION	UNAGED MIN. 70%(100°C×48HRS)
INSULATION SHRINKBACK			150m/m, 121°C±1°C×1HR≤ 9.5m/m
COLD BEND TEST			-20°C×4HRS NO.CRACK
FLAME RETARDANT TEST			CMX
AC LEAKAGE CURRENT THROUGHT OVERALL JACKET			AC 1500V≤ 10 mA
DC RESISTANCE UNBALANCE			5% MAX.
PAIR-TO-GROUND CAPACITANCE UNBALANCE			3300 pF/Km MAX.
CHARACTERISTIC IMPEDANCE			1 ~ 350 MHz 100±15 OHMS
STRUCTURAL RETURN LOSS			350 MHz 10.6dB MIN.
PROPAGATION DELAY			350MHz 536nS/100m MAX.
DELAY SKEW			1 ~ 350 MHz 45nS/100m MAX.
MARKING :			
ELITE 350 CAT 5E GIGASYSTEM TESTED TO 350MHz---E142890 FTP 4PR			
24AWG 75°C (UL) c(UL) CMX OUTDOOR DIRECT BURIAL ---3P VERIFIED TO			
TIA/EIA-568-B.2 MMYR RoHS COMPLIANT XXXXFT			

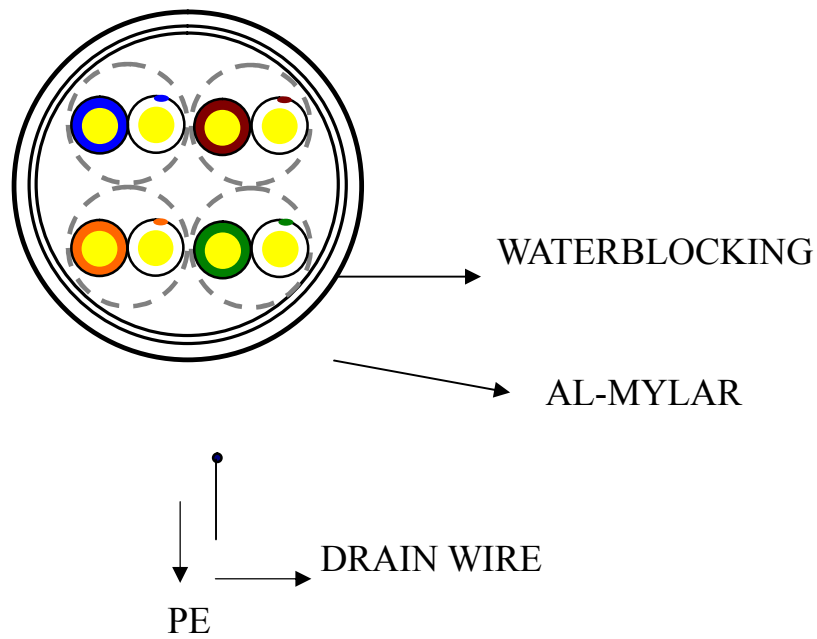
3



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Electrical Performance

ITEM (d B) Frequency (MHz)	ATT MAX. (dB/100m)	NEXT MIN. (d B)	ACR MIN. (dB)	PS. NEXT MIN. (dB)	PS. ACR MIN. (dB)	ELFEXT MIN. (dB/100m)	PS. ELFEXT MIN. (dB/100m)	R.L. MIN. (d B)
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
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
200	32.4	30.8	0	27.8	0	17.8	14.8	18.0
300	36.0	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



AK001/210×297/1.0

EDITION : 1.0

MAKER : *C.Y. Chen*

CONFIRM : *S.N. Wong*

REVISED DATE :

APPROVAL : *W.J. Wang*

PAGE : 5