



NEX1 Technologies Co., Ltd

SPECIFICATION FOR APPROVAL

DOCUMENT: TPM2404E01

STYLE: 75 300V
COMMUNICATION CABLE

SIZE: UTP 24AWG X4P
CAT 5e CM (STRANDED)

RECOGNIZED: UL. CSA. ETL. 3P

Manufactured by:

NEX1 Technologies Co., Ltd.
No.6, Lane 252, Min-Tsu E. Road, Taipei 104, Taiwan
www.nex1.com.tw



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SPECIFICATIONS

STYLE	75 300V COMMUNICATION CABLE	DOCUMENT NO : TPM2404E01
SIZE	UTP 24AWG×4P	ESTABLISHED DATE : 2007/3/16
STANDARD : UL444 & EN50173 & ISO/IEC 11801 & TIA/EIA-568-A-5 CAT 5e		
APPLICATION : HIGH PERFORMANCE LAN CABLE ARE SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF TRANSFER FOR WORK AREA NETWORK		
CONSTRUCTION :		
CONDUCTOR	SIZE	24AWG × 4P
	CONSTRUCTION	BARE STRANDED COPPER
	COND. DIAM.	7.0/0.205±0.008 mm.
INSULATION	AVG. THICK.	0.190 mm.
	MIN. THICK.	0.175 mm.
	DIAMETER	0.99 ± 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 (SLOT)	-----
	ASSEMBLY STRANDED	4 PAIR STRANDED
JACKETED	AVG. THICK.	0.55 mm.
	MIN. THICK.	0.51 mm.
	DIAMETER	5.40 ± 0.20 mm.
	MATERIAL	PVC
	COLOR	GRAY OR OTHER COLOR

AK001/210×297/1.0

EDITION : 1.0

REVISED DATE: March 16, 2007

MAKER : *C. Y. Chen*

CONFIRM : *S. N. Wong*

APPROVAL : *W. J. Wang*



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ELECTRICAL & PHYSICAL PROPERTIES :			
ITEM		24AWG × 4P	
RATING TEMP VOLTAGE		75 300V	
CONDUCTOR RESISTANCE		93.8 OHM/Km20 MAX.	
MUTUAL CAPACITANCE		56 pF/M MAX.	
DIELECTRIC STRENGTH		AC 1.5 KV/MIN.	
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 ×48HRS)
		ELONGATION	UNAGED MIN. 75%(100 ×48HRS)
JACKETED	UNAGED	TENSILE STRENGTH	2000 PSI MIN. (1.41 Kg/m m ²)
		ELONGATION	100% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 85%(100 ×240HRS)
		ELONGATION	UNAGED MIN. 50%(100 ×240HRS)
INSULATION SHRINKBACK		150m/m, 121 ± 1HR 9.5m/m	
COLD BEND TEST		-20 ±4HRS NO.CRACK	
FLAME RETARDANT TEST		CM	
AC LEAKAGE CURRENT THROUGH OVERALL JACKET		AC 1500V 10 mA	
DC RESISTANCE UNBALANCE		5% MAX.	
PAIR-TO-GROUND CAPACITANCE UNBALANCE		3300 pF/Km MAX.	
CHARACTERISTIC IMPEDANCE		1 ~ 100 MHz 100±15 OHMS	
STRUCTURAL RETURN LOSS		100 MHz 16.0dB MIN.	
PROPAGATION DELAY		100 MHz 538nS/100m MAX.	
DELAY SKEW		1 ~ 100 MHz 45nS/100m MAX.	
MARKING :			
NEX1 100 PREMIER E142890 (UL) CM 75 UTP 4PR 24AWG CSA CMG LL43774			
ETL & 3P VERIFIED TO TIA/EIA-568-A-5 CAT 5e PATCH			

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MAKER :

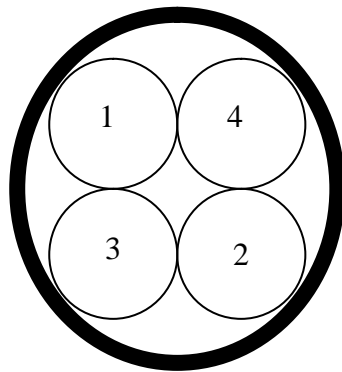
CONFIRM :

APPROVAL :

SPECIFICATIONS

Electrical Performance

ITEM (dB) Frequency (MHz)	ATT MAX. (dB/100 m)	NEXT MIN. (dB)	ACR MIN. (dB)	PS. NEXT MIN. (dB)	PS. ACR MIN. (dB)	ELFEXT MIN. (dB/100 m)	PS. ELFEXT MIN. (Db/100 m)	R.L. MIN. (dB)
1	2.4	65.3	62.9	62.3	59.9	63.8	60.8	20.0
4	4.9	56.3	51.4	53.3	48.4	51.7	48.7	23.0
8	6.9	51.8	44.9	48.8	41.9	45.7	42.7	24.5
10	7.8	50.3	42.5	47.3	39.5	43.8	40.8	25.0
16	9.8	47.3	37.5	44.3	34.5	39.7	36.7	25.0
20	11.2	45.8	34.6	42.8	31.6	37.8	34.8	25.0
25	12.5	44.3	31.8	41.3	28.8	35.8	32.8	24.2
31.25	14.0	42.9	28.9	39.9	25.9	33.9	30.9	23.3
62.5	20.4	38.4	18.0	35.4	15.0	27.8	24.8	20.7
100	26.4	35.3	8.9	32.3	5.9	23.8	20.8	19.0



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EDITION : *A.Y. Chen*

S. Wang REVISION DATE: March 16, 2007. *Wang*

MAKER :

CONFIRM :

APPROVAL :