



NEX1 Technologies Co., Ltd

SPECIFICATION FOR APPROVAL

DOCUMENT : TUR2425N01

STYLE : 75 300V
COMMUNICATION CABLE

SIZE: UTP 24AWG X25P (SOLID)
CAT 5 CMR

RECOGNIZED: UL. CSA

Manufactured by:

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



NEX1 Technologies Co., Ltd

SPECIFICATIONS

STYLE	75 300V COMMUNICATION CABLE	DOCUMENT NO : TUR2425N01
SIZE	UTP 24AWG×4P	ESTABLISHED DATE : 2007/3/16
STANDARD : UL444 &TIA/EIA-568-A CAT 5 APPLICATION : LOCAL AREA NETWORK CABLE ARE SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF TRANSFER FOR HORIZONTAL NETWORK CONSTRUCTION :		
CONDUCTOR	SIZE	24AWG × 25P
	CONSTRUCTION	SOLID BARE COPPER
	COND. DIAM.	1/0.540±0.008 mm
INSULATION	AVG. THICK.	0.240 mm
	MIN. THICK.	0.220 mm
	DIAMETER	1.020 ± 0.020 mm
	MATERIAL	FRPE
	COLOR CODES	1.PRIMARY: BLACK,RED,WHITE,YELLOW,VIOLET 2.SECONDARY: BLUE,ORANGE,GREEN,BROWN,GREY
SHIELDED	PAIR STRANDED	2 CORES STRANDED
	ASSEMBLY STRANDED	3 PAIRS STRANDED × 3 GROUPS
	ASSEMBLY STRANDED	4 PAIRS STRANDED × 4 GROUPS
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	ASSEMBLY STRANDED	7 GROUPS STRANDED
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JACKETED	AVG. THICK.	1.00 mm
	MIN. THICK.	0.90 mm
	DIAMETER	13.80 ± 0.20 mm
	MATERIAL	PVC
	COLOR	GRAY OR OTHER COLOR

AK001/210×297/1.0

EDITION : 1.0

C. Y. Chen

REVISED DATE: March 16, 2007

S. N. Wong

W. J. Wang



NEX1 Technologies Co., Ltd

MAKER :

CONFIRM :

APPROVAL :

SPECIFICATIONS

ELECTRICAL & PHYSICAL PROPERTIES :			
ITEM		24AWG × 25P	
RATING TEMP VOLTAGE		75 300V	
CONDUCTOR RESISTANCE		93.8 OHM/Km/20 MAX.	
MUTUAL CAPACITANCE		56 pF/M MAX.	
DIELECTRIC STRENGTH		AC 1.5 KV/MIN.	
SPARK TEST		2.5 KV	
INSULATION	UNAGED	TENSILE STRENGTH	1200 PSI MIN. (0.84 Kg/m m ²)
		ELONGATION	100% 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 1HRS 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		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 E142890 CMR 75 UTP 25PR 24AWG VERIFIED (UL) CAT 5 CSA CMG			
75 LL43774 XXXXXM			

AK001/210×297/1.0



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EDITION : *A.Y. Chen*

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

MAKER :

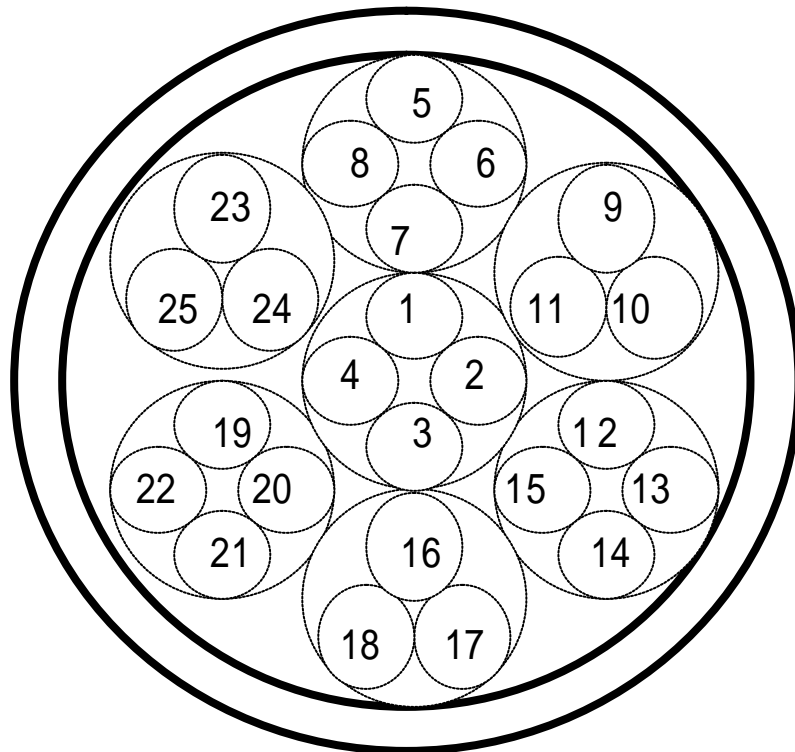
CONFIRM :

APPROVAL :

SPECIFICATIONS

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	62.3	60.3	62.3	60.3	60.8	57.8	17.0
4	4.1	53.3	49.2	53.3	49.2	48.7	45.7	18.8
8	5.8	48.8	43.0	48.8	43.0	42.7	39.7	19.7
10	6.5	47.3	40.8	47.3	40.8	40.8	37.8	20.0
16	8.2	44.3	36.1	44.3	36.1	36.7	33.7	20.0
20	9.3	42.8	33.5	42.8	33.5	34.8	31.8	20.0
25	10.4	41.3	30.9	41.3	30.9	32.8	29.8	19.3
31.25	11.7	39.9	38.2	39.9	28.2	30.9	27.9	18.6
62.5	17.0	35.4	18.4	35.4	18.4	24.8	21.8	16.5
100	22.0	32.3	10.3	32.3	10.3	20.8	17.8	15.1





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MAKER : *C. Y. Chen* CONFIRM :

S. N. Wang APPROVAL

W. J. Wang