



NEX1 Technologies Co., Ltd

SPECIFICATION FOR APPROVAL

DOCUMENT : TUX2404E08

STYLE : 75 300V
COMMUNICATION CABLE

SIZE: OUT-DOOR TYPED
UTP 24AWG X4P (SOLID)
NEX1 100 CAT 5E CMX

RECOGNIZED: UL. CSA. ETL. 3P

Manufactured by:

NEX1 Technologies Co., Ltd.
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Taiwan
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SPECIFICATIONS

STYLE	75 300V COMMUNICATION CABLE	DOCUMENT NO : TUM2404E08
SIZE	UTP 24AWG×4P	ESTABLISHED DATE : 2007/7/12
STANDARD : UL444 & prEN50288-3-1 & ISO/IEC 11801 & TIA/EIA-568-B.2 CAT 5e		
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.	1.0/0.525±0.008 mm
INSULATION	AVG. THICK.	0.1950 mm
	MIN. THICK.	0.185 mm
	DIAMETER	0.920 ± 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	5. 2 CORES STRANDED
	FILLER (SPLINE)	6. -----
	ASSEMBLY STRANDED	7. 4 PAIR STRANDED
JACKETED	AVG. THICK.	0.52 mm
	MIN. THICK.	0.48 mm
	DIAMETER	5.10×8.50 ± 0.20 mm
	MATERIAL	PE
	COLOR	BLACK
MESSENGER	MATERIAL.	GALVANIZED STEEL WIRE
	DIAMETER .	1.60 ± 0.10 mm
	SHEATH THICK	0.6 ± 0.10 mm



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ELECTRICAL & PHYSICAL PROPERTIES :			
ITEM	24AWG × 4P		
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/2 SEC		
SPARK TEST	2.5 KV		
INSULATION	UNAGED	TENSILE TRENGTH	2400 PSI MIN. (1.69 Kg/m m ²)
		ELONGATION	300% MIN.
	AGED	TENSILE TRENGTH	UNAGED MIN. 75%(100 ×48HRS)
		ELONGATION	UNAGED MIN. 75%(100 ×48HRS)
JACKETED	UNAGED	TENSILE TRENGTH	2400 PSI MIN.(1.41 Kg/m m ²)
		ELONGATION	300% MIN.
	AGED	TENSILE TRENGTH	UNAGED MIN. 75%(100 ×48HRS)
		ELONGATION	UNAGED MIN. 75%(100 ×48HRS)
INSULATION SHRINKBACK			150m/m, 121 ± 1HR 9.5m/m
COLD BEND TEST			-20 1HR NO.CRACK
FLAME RETARDANT TEST			CMX
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 E142890 (UL) CMX OUTDOOR 75 UTP 4PR 24AWG CSA LL43774			
ETL VERIFIED TO TIA/EIA-568-B.2 CAT 5E XXXXXM			

EDITION : 1.0

REVISED DATE: July 12, 2007

C. Y. Chen

S. N. Wong

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MAKER :

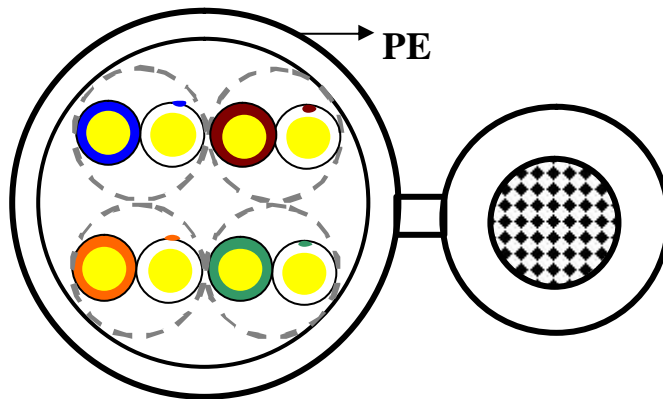
CONFIRM :

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	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



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MAKER : *C. Y. Chen*

CONFIRM : *S. N. Wong*

APPROVAL : *W. J. Wang*