



NEX1 Technologies Co., Ltd

SPECIFICATION FOR APPROVAL

DOCUMENT: TUL2304X03

STYLE: 60 300V
COMMUNICATION CABLE

SIZE: UTP 23AWG X4P (SOLID)
NEX1 1000X CAT. 6 LSOH

RECOGNIZED: UL. CSA. ETL. 3P

Manufactured by:

NEX1 Technologies Co., Ltd.
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SPECIFICATIONS

STYLE	60 300V COMMUNICATION CABLE	DOCUMENT NO : TUL2304X03
SIZE	UTP 23AWG×4P	ESTABLISHED DATE : 2007/3/16
STANDARD : ISO/IEC 11801 & EN50173 & IEC 332 754 1034 811 HD 624.7		
APPLICATION : ULTRA HIGH PERFORMANCE LAN CABLE ARE SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF TRANSFER FOR HORIZONTAL NETWORK		
CONSTRUCTION :		
CONDUCTOR	SIZE	23AWG × 4P
	CONSTRUCTION	SOLID BARE COPPER
	COND. DIAM.	1 / 0.600 ± 0.008 mm
INSULATION	AVG. THICK.	0.225 mm
	MIN. THICK.	0.215 mm
	DIAMETER	0.990 ± 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)	FOAM-PE ISOLATOR SEPARATOR
	ASSEMBLY STRANDED	4 PAIR STRANDED
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JACKETED	AVG. THICK.	0.55 mm
	MIN. THICK.	0.51 mm
	DIAMETER	6.50 ± 0.20 mm
	MATERIAL	LSOH
	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	23AWG × 4P		
RATING TEMP VOLTAGE	60 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 TRENGTH	2176 PSI MIN. (1.53 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	1306 PSI MIN.(0.92 Kg/m m ²)
		ELONGATION	125% MIN.
	AGED	TENSILE TRENGTH	UNAGED MIN. 70%(100 ×168HRS)
		ELONGATION	UNAGED MIN. 70%(100 ×168HRS)
INSULATION SHRINKBACK	5% MAX (AT 130 ✕HR)		
COLD BEND TEST	-20 ✕HRS NO.CRACK		
FLAME RETARDANT TEST	IEC 332-1		
ACID GAS EVOLUTION	PH 4.3		
SMOKE GENERATION	60% MIN(TRANSMISSION OF LIGHT)		
DC RESISTANCE UNBALANCE	5% MAX.		
PAIR-TO-GROUND CAPACITANCE UNBALANCE	3300 pF/Km MAX.		
CHARACTERISTIC IMPEDANCE	1 ~ 250 MHz 100±15 OHMS		
STRUCTURAL RETURN LOSS	250 MHz 12.0dB MIN.		
PROPAGATION DELAY	250 MHz 536nS/100m MAX.		
DELAY SKEW	1 ~ 250 MHz 40nS/100m MAX.		
MARKING :			
NEX1 1000X CAT 6 GIGASYSTEM UTP LSOH 4PR 23AWG ETL & 3P VERIFIED TO TIA/EIA-568-B.2-1 ISO/IEC 11801 prEN50288-6-1 XXXXXXFT			



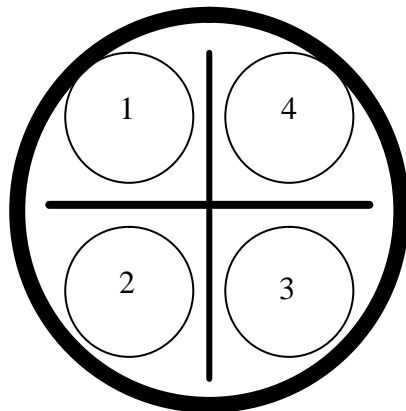
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Electrical Performance

ITEM(d B) Frequency (MHz)	ATT MAX. (dB/100m)	NEX T MIN. (d B)	ACR MIN. (dB)	PS. NEX T MIN. (dB)	PS. ACR MIN. (dB)	ELFEXT MIN. (dB)/100 m)	PS. ELFEXT MIN. (dB/100m)	R.L. MIN (d B)
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	5.4	60.8	55.4	58.8	53.4	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	15.5	47.4	31.9	45.1	29.9	31.8	28.8	21.5
100	19.9	44.3	24.4	42.3	22.4	27.8	24.8	20.1
155	25.3	41.5	16.2	39.5	14.2	23.9	20.9	18.8
200	29.2	39.8	10.6	37.8	8.6	21.7	18.7	18.0
250	33.0	38.3	5.3	36.3	3.3	19.8	16.8	17.3



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