

SPECIFICATIONS FOR APPROVAL

DOCUMENT? TUR2304X11

STYLE: 75 300V
COMMUNICATION CABLE

SIZE: UTP 23AWG X4P (SOLID)
CAT 6 CMR

APPROVED: 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



NEX1 Technologies Co., Ltd

SPECIFICATIONS

STYLE	75 300V COMMUNICATION CABLE	DOCUMENT NO : TUR2304X03
SIZE	UTP 23AWG×4P	ESTABLISHED DATE : 2007/3/16
STANDARD : UL444 & prEN50288-6-1 & ISO/IEC 11801 & TIA/EIA-568-B.2.1 CAT 6 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.	1.0/0.580±0.008 mm.
INSULATION	AVG. THICK.	0.210 mm.
	MIN. THICK.	0.190 mm.
	DIAMETER	0.990 ± 0.020 mm.
	MATERIAL	FRPE
	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)	FRPE ISOLATOR SEPARATOR
	ASSEMBLY STRANDED	4 PAIR STRANDED
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JACKETED	AVG. THICK.	0.55 mm.
	MIN. THICK.	0.50 mm.
	DIAMETER	6.90 ± 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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SPECIFICATIONS

ELECTRICAL & PHYSICAL PROPERTIES :			
ITEM			23AWG × 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/MIN. 2SEC 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 ± hrs. NO.CRACK
FLAME RETARDANT TEST			CMR
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 ~ 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 CAT 6 GIGASYSTEM E142890 (UL) CMR 75 UTP 4PR 23AWG CSA CMG LL43774 ETL & 3P VERIFIED TO TIA/EIA-568-B.2-1 ISO/IEC 11801 p r EN50288-6-1 XXXXXXFT			

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MAKER :

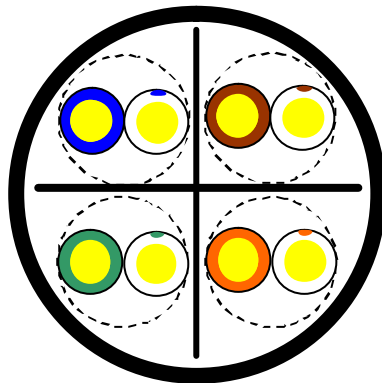
CONFIRM :

APPROVAL :

SPECIFICATIONS

Electrical Performance

ITEM (dB) Frequency (MHz)	ATT MAX. (dB/100m)	NEX T MIN. (dB)	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. (dB)
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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