



## CAT6-BULK-STP-PLNM-GRAY-NPC SPECIFICATION

STYLE	75°C 300V COMMUNICATION CABLE		
SIZE	FTP 23AWG×4P		ESTABLISHED DATE : Jun./10/2010
STANDARD : UL444 & ISO/IEC 11801 & TIA-568-C.2 CAT 6; 2002/95/EC(RoHS)			
APPLICATION : LOCAL AREA NETWORK CABLE ARE SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF TRANSFER FOR HORIZONTAL NETWORK			
CONSTRUCTION :			
CONDUCTOR	SIZE		23AWG
	CONSTRUCTION		SOLID BARE COPPER
INSULATION	BLUE ,GREEN	NOM THICK	0.245 mm
	DIAMETER		1.04 ± 0.02 mm
	ORANGE,BROWN	NOM THICK	0.225 mm
	DIAMETER		1.00 ± 0.02 mm
	MATERIAL		FEP
	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)		FEP ISOLATOR SEPARATOR
	ASSEMBLY STRANDED		4 PAIR STRANDED
	SHIELDED		MYLAR TAPE
	DRAIN WIRE		TINNED COPPER
	SHIELDED		AL-MYLAR TAPE
JACKETED	AVG. THICK.		0.43 mm
	MIN. THICK.		0.40 mm
	DIAMETER		6.70 ± 0.20 mm
	MATERIAL		FR PVC(LOW SMOKE)
	COLOR		GRAY OR OTHER COLOR



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ELECTRICAL & PHYSICAL PROPERTIES :			
ITEM		23AWG × 4P	
RATING TEMP VOLTAGE		75°C 300V	
CONDUCTOR RESISTANCE		9.38 OHM/100m/20°C MAX.	
MUTUAL CAPACITANCE		56 pF/M MAX.	
DIELECTRIC STRENGTH		AC 1.5 KV/2 SEC.	
SPARK TEST		2.5 KV	
INSULATION	UNAGED	TENSILE STRENGTH	2500 PSI MIN.(1.76 Kg/m m <sup>2</sup> )
		ELONGATION	200% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 75%(232°C×168HRS)
		ELONGATION	UNAGED MIN. 75%(232°C×168RS)
JACKETED	UNAGED	TENSILE STRENGTH	2000 PSI MIN.(1.41 Kg/m m <sup>2</sup> )
		ELONGATION	100% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 85%(100°C×240HRS)
		ELONGATION	UNAGED MIN. 50%(100°C×240HRS)
INSULATION SHRINKBACK		150m/m, 121°C±1°C×1HR ≤9.5m/m	
COLD BEND TEST		-20°C×4HRS NO CRACK	
FLAME RETARDANT TEST		CMP	
AC LEAKAGE CURRENT THROUGH OVERALL JACKET		AC 1500V ≤ 10 mA	
DC RESISTANCE UNBALANCE		5% MAX.	
PAIR-TO-GROUND CAPACITANCE UNBALANCE		330 pF/100m MAX.	
PROPAGATION DELAY		400MHz 535.8nS/100m MAX.	
DELAY SKEW		1 ~ 400 MHz 30nS/100m MAX.	
MARKING :			
CAT 6 GIGASYSTEM TESTED TO 400MHz--- FTP 4PR 23AWG 75°C CMP (UL) c(UL)---3P VERIFIED TO TIA-568-C.2 ISO/IEC 11801 MMY Y RoHS COMPLIANT XXXFT			

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## Electrical Performance

ITEM Frequency (MHz)	IL MAX. (dB/100m)	NEXT MIN. (dB)	ACR MIN. (dB)	PS. NEXT MIN. (dB)	PS. ACR MIN. (dB)	ACRF MIN. (dB/100m)	PS. ACRF 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	5.3	60.8	55.5	58.8	53.3	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	15.4	47.4	32.0	45.1	30.0	31.8	28.8	21.5
100	19.8	44.3	24.5	42.3	22.5	27.8	24.8	20.1
155	25.1	41.5	16.4	39.5	14.4	23.9	20.9	18.8
200	29.0	39.8	10.8	37.8	8.8	21.7	18.7	18.0
250	32.8	38.3	5.5	36.3	3.5	19.8	16.8	17.3
300	36.4	37.2	0.8	35.2	0	18.2	15.2	16.8
400	43.0	35.3	NA	33.3	NA	15.7	12.7	15.9

