



# STAR LINK

## DATA CABLE SPECIFICATIONS

STYLE	75 300V COMMUNICATION CABLE	DOCUMENT NO
SIZE	UTP 23AWG×4P	ESTABLISHED DATE
STANDARD    UL 444    ISO/IEC 11801    TIA/EIA-568-B.2-1 CAT.6		
APPLICATION    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.	1/0.560±0.01 mm.
INSULATION	AVG. THICK.	0.20    mm.
	MIN. THICK.	0.19    mm.
	DIAMETER	1.00 ± 0.04    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
INNER CORES	PAIR STRANDED	2 CORES STRANDED
	ASSEMBLY STRANDED	FILLER+4 PAIR STRANDED
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OUTER JACKET	MIN. AVG. THICK.	0.44    mm.
	MIN. THICK.	0.36    mm.
	DIAMETER(approx.)	6.30    mm.
	MATERIAL	PVC (Lead & Lead Compounds Free)
	COLOR	Customer

Edition : 2.0

January 7,2009



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## SPECIFICATIONS

ELECTRICAL		PHYSICAL PROPERTIES	
ITEM		23AWG × 4P	
RATING TEMP VOLTAGE		75 300V	
CONDUCTOR RESISTANCE		9.38 Ohm/100m (Max.)	
MUTUAL CAPACITANCE		5.6 nF/100M (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 )
		ELONGATION	100% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 75%(100 ×48HRS)
		ELONGATION	UNAGED MIN. 75%(100 ×48HRS)
JACKET	UNAGED	TENSILE STRENGTH	2000 PSI MIN. (1.41 Kg/m )
		ELONGATION	100% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 85%(100 ×240HRS)
		ELONGATION	UNAGED MIN. 50%(100 ×240HRS)
INSULATION SHRINKBACK		150m/m, 121 ± 1 × 1HR 9.5m/m	
COLD BEND TEST		-20 × 4HRS NO.CRACK	
FLAME RETARDANT TEST		CM	
AC LEAKAGE CURRENT THROUGHT OVERALL JACKET		AC 1500V 10 mA	
DC RESISTANCE UNBALANCE		5% MAX.	
PAIR-TO-GROUND CAPACITANCE UNBALANCE		330 pF/100m (MAX.)	
VELOCITY OF PROPAGATION (VOP,%,MIN)		100 MHz 62.0% ; 250 MHz 62.1%	
PROPAGATION DELAY		250 MHz 536nS/100m MAX.	
DELAY SKEW		1 ~ 250 MHz 45nS/100m MAX.	
MARKING - STAR LINK		UTP 4PR 23AWG CM C(UL)US VERIFIED(UL) CAT.6 E133562-2 xxxxM	

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## Electrical Performance

Item (dB) Frequency (MHz)	ATT MAX. (dB/100m)	NEXT MIN. (dB)	ACR MIN. (dB)	PS. NEXT MIN. (dB)	PS. ACR MIN. (dB)	ELFEXT MIN. (dB/100m)	PS. ELFEXT MIN. (dB/100m)	R.L. MIN. (dB)
1	2.0	74.3	70.3	72.3	70.3	67.8	64.8	20.0
4	3.8	65.3	59.5	63.3	59.5	55.8	52.8	23.0
8	5.3	60.8	53.5	58.8	53.5	49.7	46.7	24.5
10	6.0	59.3	51.3	57.3	51.3	47.8	44.8	25.0
16	7.6	56.2	46.6	54.2	46.6	43.7	40.7	25.0
20	8.5	54.8	44.3	52.8	44.3	41.8	38.8	25.0
25	9.5	53.3	41.8	51.3	41.8	39.8	36.8	24.3
31.25	10.7	51.9	39.2	49.9	39.2	37.9	34.9	23.6
62.5	15.4	47.4	30.0	45.4	30.0	31.9	28.9	21.5
100	19.8	44.3	22.5	42.3	22.5	27.8	24.8	20.1
200	29.0	39.8	8.8	37.8	10.8	21.8	18.8	18.0
250	32.8	38.3	3.5	36.3	5.5	19.8	16.8	17.3

