



## SPECIFICATIONS

STYLE	75°C 300V COMMUNICATION CABLE	DOCUMENT NO :
SIZE	UTP 24AWG×4P	ESTABLISHED DATE :
STANDARD : UL444 & TIA/EIA-568-B.2 CAT 5e		
APPLICATION : HIGH PERFORMANCE LAN CABLE ARE SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF TRANSFER FOR HORIZONTAL NETWORK		
CONSTRUCTION :		
CONDUCTOR	SIZE	24AWG × 4P
	CONSTRUCTION	SOLID BARE COPPER
	COND. DIAM.	1/0.500±0.008 mm.
INSULATION	AVG. THICK.	0.20 mm.
	MIN. THICK.	0.19 mm.
	DIAMETER	0.92 ± 0.02 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
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	ASSEMBLY STRANDED	4 PAIR STRANDED
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OUTER JACKET	MIN. AVG. THICK.	0.46 mm.
	MIN. THICK.	0.40 mm.
	DIAMETER(approx.)	5.00 mm.
	MATERIAL	PVC (Lead & Lead Compounds Free)
	COLOR	Customer

Edition : 1.0

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ELECTRICAL & PHYSICAL PROPERTIES :			
ITEM		24AWG × 4P	
RATING TEMP VOLTAGE		75°C 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 m <sup>2</sup> )
		ELONGATION	100% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 75%(100°C ×48HRS)
		ELONGATION	UNAGED MIN. 75%(100°C ×48HRS)
JACKET	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		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.)	
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 : DAH SAN 75°C UTP 4PR 24AWG TYPE CM ETL VERIFIED TO ANSI/TIA-568-B.2 CATEGORY 5e xxxXM			

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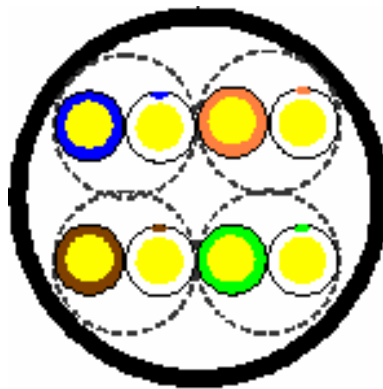
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### Electrical Performance

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	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	25.0
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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