

STYLE	75° 300V COMMUNICATION CABLE	DOCUMENT NO: TUP2404P01
SIZE	UTP 24AWG×4P	ESTABLISHED DATE: 2006/4/15
STANDARD : UL444,910 & ISO/IEC 11801 & 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.	1.0/0.515±0.008 mm
INSULATION	AVG. THICK.	0.182 mm
	MIN. THICK.	0.171 mm
	DIAMETER	0.880 ± 0.020 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)	-----
	ASSEMBLY STRANDED	4 PAIR STRANDED
	-----	-----
	-----	-----
	-----	-----
	-----	-----
JACKETED	AVG. THICK.	0.42 mm
	MIN. THICK.	0.38 mm
	DIAMETER	4.70 ± 0.20 mm
	MATERIAL	PVC
	COLOR	GRAY OR OTHER COLOR

SPECIFICATION

ELECTRICAL & PHYSICAL PROPERTIES:			
ITEM		24AWG × 4P	
RATING TEMP VOLTAGE		75° 300V	
CONDUCTOR RESISTANCE		93.8 OHM/Km/20°C MAX.	
MUTUAL CAPACITANCE		56 pF/M MAX.	
DIELECTRIC STRENGTH		AC 1.5 KV/MIN.	
SPARK TEST		2.5 KV	
INSULATION	UNAGED	TENSILE TRENGTH	2500 PSI MIN. (1.76 Kg/m m ²)
		ELONGATION	200% MIN.
	AGED	TENSILE TRENGTH	UNAGED MIN. 75%(232°C×168HRS)
		ELONGATION	UNAGED MIN. 75%(232°C×168HRS)
JACKETED	UNAGED	TENSILE TRENGTH	2000 PSI MIN.(1.41 Kg/m m ²)
		ELONGATION	100% MIN.
	AGED	TENSILE TRENGTH	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 THROUGHT OVERALL JACKET		AC 1500V ≅ 10 mA	
DC RESISTANCE UNBALANCE		5% MAX.	
PAIR-TO-GROUND CAPACITANCE UNBALANCE		3300 pF/Km MAX.	
CHARACTERISTIC IMPEDANCE		1 ~ 350 MHz 100±15 OHMS	
STRUCTURAL RETURN LOSS		350 MHz 10.6dB MIN.	
PROPAGATION DELAY		350 MHz 536nS/100m MAX.	
DELAY SKEW		1 ~ 350 MHz 40nS/100m MAX.	

MARKING:

PAIGE ELECTRIC 350 ENHANCED CATEGORY 5E CABLE TESTED TO 350MHz FOR GIGABIT SYSTEM E191596 (UL) CMP 75°C UTP 4PR 24AWG CSA CMP LL43774 ETL VERIFIED TO TIA/EIA-568-B-2 CAT 5e XXXXXXFT

SPECIFICATION

Electrical Performance

ITEM(d B)	ATT	NEXT	ACR	PS. NEXT	PS. ACR	ELFEXT	PS. ELFEXT	R. L.
Frequency (MHz)	MAX. (dB/100m)	MIN. (d B)	MIN. (dB)	MIN. (dB)	MIN. (dB)	MIN. (dB/100m)	MIN. (dB/100m)	MIN. (d B)
1	2.0	68.3	66.3	66.3	64.3	63.8	60.8	20.0
4	4.1	59.3	55.2	57.3	53.2	51.7	48.7	23.0
8	5.8	54.8	49.0	52.8	47.0	45.7	42.7	24.5
10	6.5	53.3	46.8	51.3	44.8	43.8	40.8	25.0
16	8.2	50.3	42.1	48.3	40.1	39.7	36.7	25.0
20	9.3	48.8	39.5	46.8	37.5	37.8	34.8	25.0
25	10.4	47.3	36.9	45.3	34.9	35.8	32.8	24.3
31.25	11.7	45.9	34.2	43.9	32.2	33.9	30.9	23.6
62.5	17.0	41.4	24.4	39.4	22.4	27.8	24.8	21.5
100	22.0	38.3	16.3	36.3	14.3	23.8	20.8	20.1
155	28.1	35.5	7.4	33.5	5.4	20.0	17.0	18.8
200	32.4	33.8	1.4	31.8	0	17.7	14.7	18.0
240	36	32.6	N. A	30.6	N. A	16.2	13.2	17.4
300	41	31.2	N. A	29.2	N. A	14.2	11.2	16.8
350	44.9	30.1	N. A	28.1	N. A	12.9	9.9	16.3

