

SPECIFICATION FOR APPROVAL

DOCUMENT TUR2425N09
STYLE : 75° 300V
 COMMUNICATION CABLE

SIZE: UTP 24AWG X25P (SOLID)
 ELITE 100 CAT 5 CMR

RECOGNIZED: UL. CSA



ABA Industry, Inc.

OFFICE : 1229 E. Walnut St.
 Carson, CA 90746
 USA

FACTORY : 17 PEI YUAN ROAD,
 CHUNG-LI IND. PARK
 TAIWAN, R.O.C.

TEL : (310) 761-8400

TEL : (03)4527777

FAX : (310) 761-8404

FAX : (03)4517214

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STYLE	75° 300V COMMUNICATION CABLE	DOCUMENT NO : TUR2425N09
SIZE	UTP 24AWG×4P	ESTABLISHED DATE : 2008/4/16
STANDARD : UL444 & TIA/EIA-568-A CAT 5		
APPLICATION : LOCAL AREA NETWORK CABLE ARE SUITABLE FOR PERFECT AUDIO DATA AND VIDEO OF TRANSFER FOR HORIZONTAL NETWORK		
CONSTRUCTION :		
CONDUCTOR	SIZE	24AWG × 25P
	CONSTRUCTION	SOLID BARE COPPER
	COND. DIAM.	1.0/0.540±0.008 mm
INSULATION	AVG. THICK.	0.240 mm
	MIN. THICK.	0.220 mm
	DIAMETER	1.020 ± 0.020 mm
	MATERIAL	FRPE
	COLOR CODES	1.PRIMARY: BLACK,RED,WHITE,YELLOW,VIOLET 2.SECONDARY: BLUE,ORANGE,GREEN,BROWN,GREY
SHIELDED	PAIR STRANDED	2 CORES STRANDED
	ASSEMBLY STRANDED	3 PAIRS STRANDED × 3 GROUPS
	ASSEMBLY STRANDED	4 PAIRS STRANDED × 4 GROUPS
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	ASSEMBLY STRANDED	7 GROUPS STRANDED
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JACKETED	AVG. THICK.	1.00 mm
	MIN. THICK.	0.90 mm
	DIAMETER	14.00 ± 0.20 mm
	MATERIAL	PVC
	COLOR	GRAY OR OTHER COLOR

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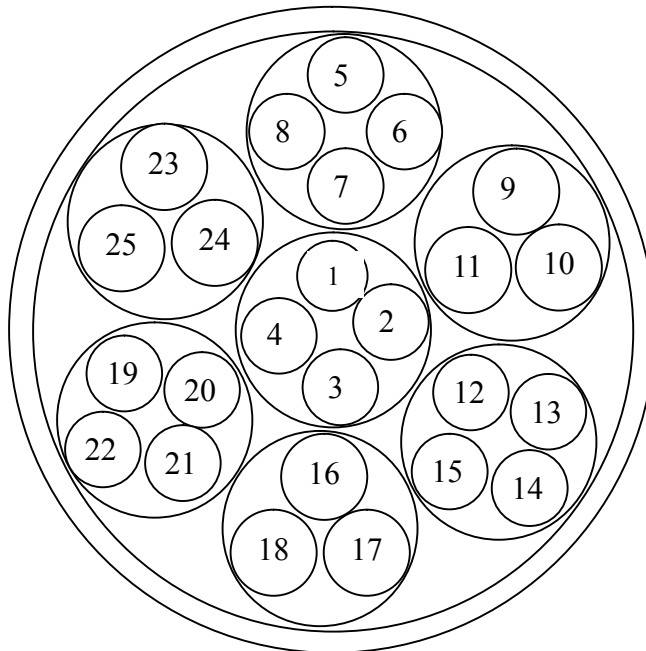
ELECTRICAL & PHYSICAL PROPERTIES :			
ITEM		24AWG × 25P	
RATING TEMP VOLTAGE		75° 300V	
CONDUCTOR RESISTANCE		93.8 OHM/Km/20°C MAX.	
MUTUAL CAPACITANCE		56 pF/M MAX.	
DIELECTRIC STRENGTH		AC 1.5 KV/MIN.	
SPARK TEST		2.5 KV	
INSULATION	UNAGED	TENSILE TRENGTH	1200 PSI MIN. (0.84 Kg/m m ²)
		ELONGATION	100% MIN.
	AGED	TENSILE TRENGTH	UNAGED MIN. 75%(100°C×48HRS)
		ELONGATION	UNAGED MIN. 75%(100°C×48HRS)
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		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 ~ 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 :			
ELITE 100 E142890 CMR 75°C UTP 25PR 24AWG VERIFIED (UL) CAT 5 CSA CMG			
75°C LL43774 XXXXXXFT			

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Electrical Performance

Frequency	ATT	NEXT	ACR	PS.NEXT	PS.ACR	ELFEXT	PS.ELFEXT	R.L.
MHz	MAX	MIN.	MIN.	MIN.	MIN.	MIN.	MIN.	MIN.
0.772	1.8	64	62.2	64	62.2	-	-	-
1	2.0	62.3	60.3	62.3	60.3	60.8	57.8	17.0
4	4.1	53.3	49.2	53.3	49.2	48.7	45.7	18.8
8	5.8	48.8	43	48.8	43.0	42.7	39.7	19.7
10	6.5	47.3	40.8	47.3	40.8	40.8	37.8	20
16	8.2	44.3	36.1	44.3	36.1	36.7	33.7	20
20	9.3	42.8	33.5	42.8	33.5	34.8	31.8	20
25	10.4	41.3	30.9	41.3	30.9	32.8	29.8	19.3
31.25	11.7	39.9	38.2	39.9	28.2	30.9	27.9	18.6
62.5	17.0	35.4	18.4	35.4	18.4	24.8	21.8	16.5
100	22.0	32.3	10.3	32.3	10.3	20.8	17.8	15.1

FIGURE :



MAKER : CONFIRM : APPROVAL :