

# SPECIFICATION FOR APPROVAL

DOCUMENT : TCL2304A01

STYLE : 60°C 300V  
COMMUNICATION CABLE

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SIZE: S/FTP 23AWG X4P (SOLID)  
CAT. 7 LSOH

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RECOGNIZED: 3P

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**WONDERFUL HI-TECH CO.,LTD**

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All Material According To SS-00259



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## SPECIFICATION

STYLE	60°C 300V COMMUNICATION CABLE	DOCUMENT NO : TCL2304A01
SIZE	S/FTP 23AWG×4P	ESTABLISHED DATE : Feb/16/2012
STANDARD : IEC 61156-5 & IEC 60332-1-2 、 60754-2 、 61034-1 、 61034-2 incl. Amendment 1		
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	AVG. THICK.	0.415 mm
	MIN. THICK.	0.360 mm
	DIAMETER	1.41 ± 0.02 mm
	MATERIAL	FOAM SKIN PE
	COLOR CODES	1.BLUE × WHITE 2.ORANGE × WHITE 3.GREEN × WHITE 4.BROWN × WHITE
SHIELDED	PAIR STRANDED	2 CORES STRANDED
	AL-MYLAR TAPE (EACH PAIR)	12 × 0.065 mm
	ASSEMBLY STRANDED	4 PAIR STRANDED
	BRAID CONSTRUCTION	16 / 6 / 0.10 mm (TINNED COPPER)
	BRAID COVERAGE	30% Min.
JACKETED	AVG. THICK.	0.50 mm
	MIN. THICK.	0.45 mm
	DIAMETER	8.00 ± 0.25 mm
	MATERIAL	LSOH
	COLOR	GRAY OR OTHER COLOR
PACKAGING	<input checked="" type="checkbox"/> ACCORDING TO CUSTOMER'S REQUEST	
	<input type="checkbox"/> ACCORDING WITH WONDERFUL HI-TECH CO.,LTD STANDARD	

AK001/210×297/1.0

EDITION : 1.0

MAKER : *H. C. KUO* CONFIRM : *C. Y. Chen*

REVISED DATE :

APPROVAL : *W. J. Wang*

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ELECTRICAL & PHYSICAL PROPERTIES :			
ITEM		23AWG × 4P	
RATING TEMP VOLTAGE		60°C 300V	
CONDUCTOR RESISTANCE		9.50 OHM/100m/20°C MAX.	
DIELECTRIC STRENGTH		AC 1.5 KV/2SEC.	
SPARK TEST		2.5 KV	
INSULATION	UNAGED	TENSILE STRENGTH	1306 PSI MIN.(0.92 Kg/m m <sup>2</sup> )
		ELONGATION	125% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 75%(100°C×48HRS)
		ELONGATION	UNAGED MIN. 75%(100°C×48HRS)
JACKETED	UNAGED	TENSILE STRENGTH	1306 PSI MIN.(0.92 Kg/m m <sup>2</sup> )
		ELONGATION	125% MIN.
	AGED	TENSILE STRENGTH	UNAGED MIN. 50%(100°C×168HRS)
		ELONGATION	UNAGED MIN. 70%(100°C×168HRS)
INSULATION SHRINKBACK		5% MAX. (130°C×1HR)	
COLD BEND TEST		-20°C×4HRS NO CRACK	
FLAME RETARDANT TEST		IEC 60332-1-2	
ACID GAS EVOLUTION		PH ≥ 4.3	
SMOKE GENERATION		60% MIN(TRANSMISSION OF LIGHT)	
DC RESISTANCE UNBALANCE		2% MAX.	
PAIR-TO-GROUND CAPACITANCE UNBALANCE		160 pF/100m MAX.	
CHARACTERISTIC IMPEDANCE		100±5 OHMS AT 100MHZ	
PROPAGATION DELAY		600MHz 535nS/100m MAX.	
DELAY SKEW		4~600MHz 45nS/100m MAX.	
MARKING :			
WONDERFUL / ELITE CAT.7 / CLASS F 10G-PLUS S/FTP 23AWG 4PR LSZH 3P VERIFIED TO ISO/IEC 61156-5 XXXXM			

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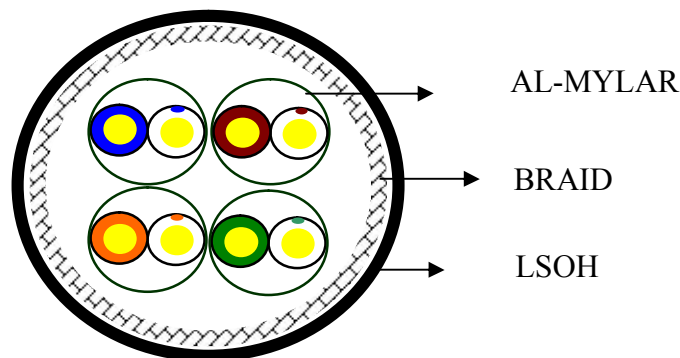


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### Electrical Performance

ITEM (dB) 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	1.96	80	78.04	77	75.04	80	77	20
4	3.64	80	76.36	77	73.36	80	77	23.01
10	5.7	80	74.3	77	71.3	74	71	25
20	8.07	80	71.93	77	68.93	67.98	64.98	25
31.25	10.13	80	69.87	77	66.87	64.1	61.1	23.64
62.5	14.49	75.46	60.97	72.46	57.97	58.08	55.08	21.54
100	18.52	72.4	53.88	69.4	50.88	54	51	20.11
155	23.35	69.55	46.2	66.55	43.2	50.19	47.19	18.77
200	26.76	67.88	41.12	64.88	38.12	47.98	44.98	18
250	30.18	66.43	36.25	63.43	33.25	46.04	43.04	17.3
300	33.32	65.24	31.92	62.24	28.92	44.46	41.46	17.3
350	36.25	64.24	27.99	61.24	24.99	43.12	40.12	17.3
400	39.01	63.37	24.36	60.37	21.36	41.96	38.96	17.3
500	44.14	61.92	17.78	58.92	14.78	40.02	37.02	17.3
600	48.87	60.73	11.86	57.73	8.86	38.44	35.44	17.3



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