

WONDERFUL HI-TECH CO., LTD.

Specification for Approval

Product Part Number

- WCB7C6UL404XXWQ-J

Product Description

- U/UTP, 24AWG stranded bare copper, CAT.6, LSOH/LSZH

Product Features

- High performance of transmission.
- High quality of safety property.
- Sweep frequency up to 250 MHz.

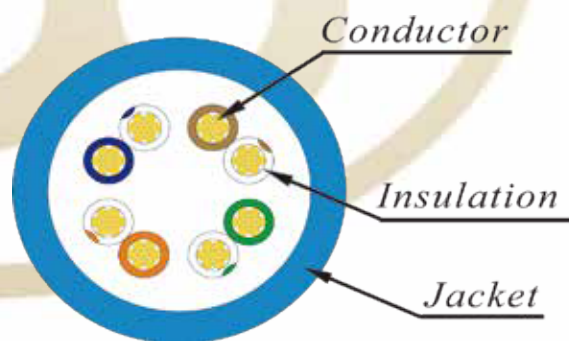
Application

- Structure cabling for patch cable.
- Transmission of digital and analogue for data, video and audio applications.
- IEEE 802.3ab 1000BASE-T, 1000BASE-TX and legacy speeds.
- CDDI / ATM / Token Ring

Applicable Standard

- Electrical Transmission
 - ISO/IEC 11801 (Edition 2.2)
 - ANSI/TIA 568-C.2
 - EN 50288-6-2
 - IEC 61156-6 (Edition 3.1)
- Flame Test
 - IEC 60332-1-2
 - IEC 61034-1 / 61034-2
 - IEC 60754-2
- Material and Construction
 - IEC 61156-6 (Edition 3.1)
- EU Directive 2011/65/EU (RoHS2) & 2015/863/EU (RoHS3)
- EU Directive 2006/95/EC (LVD)

Sectional Drawing



All Material According To SS-00259

Establish Date	2010.03.19	Edition	1.5	Revised Date	2020.11.05
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Specification for Approval

Material and Construction

Conductor	Material	24AWG stranded bare copper	
Insulation	Material	HDPE	
	Color code & diameter	Blue & white/blue Stripe	0.94 -1.01 mm
		Orange & white/orange stripe	0.94 -1.01 mm
		Green & white/green stripe	0.94 -1.01 mm
		Brown & white/brown stripe	0.94 -1.01 mm
Twisted	Description	Left hand direction	
Assembly	Description	Left hand direction	
Jacket	Material	LSOH/LSZH	
	Diameter	5.4 ± 0.2 mm	
	Thickness	0.51 mm	
	Color	Per customer's request	
Marking	WONDERFUL CAT.6 LSZH U/UTP 24AWG PATCH CABLE ANSI/TIA-568-C.2 ISO/IEC 11801 XXXXM		

Usage & Environmental Condition

Temperature range	Storage & shipping	-20°C to 70°C
	Installation	0°C to 50°C
	Operation	-20°C to 60°C
Minimum bending radius		≥ 4 times of overall diameter
Maximum pulling tension		Max 50N

產品編號	產品描述	單位	重量
WCB7C6UL404XXWQ-J	CAT.6 U/UTP LSOH Patch cable 24AWG	500M/RELL	線:17Kg / 軸:1Kg

★ (xx)Color : 

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Physical & Electrical Characteristics (at 20°C)

Temperature rating	75°C
Spark test	2.5 KV DC
AC leakage current through overall jacket	$\leq 10\text{mA}$ (1.5KV AC)
Cable cold bend	-20°C for 4 hr
Conductor DC resistance	$\leq 9.38 \ \Omega/100\text{m}$
Resistance unbalance	$\leq 5\%$
Dielectric strength	1.5 KV ac for 2 s
Insulation resistance	$\geq 5000 \text{ M}\Omega \cdot \text{km}$
Mutual capacitance	$\leq 5.6 \text{ nF}/100\text{m}$
Capacitance unbalance pair-to-ground	$\leq 160 \text{ pF}/100\text{m}$

Transmission Performance (at 20°C)

FREQ	Attenuation	RL	NEXT	PS-NEXT	ACRF	PSACRF	TCL	Prop. Delay
MHz	(max. dB/100m)	(min. dB at 20°C)	(min. dB)	(min. dB)	(min. dB)	(min. dB)	(min. dB)	(max. ns)
1	2.4	20.0	74.3	72.3	67.8	64.8	40	570
4	4.5	23.0	65.3	63.3	55.8	52.8	40	552
8	6.4	24.5	60.8	58.8	49.7	46.7	40	549
10	7.1	25.0	59.3	57.3	47.8	44.8	40	545
16	9.1	25.0	56.2	54.2	43.7	40.7	38	543
20	10.2	25.0	54.8	52.8	41.8	38.8	37	542
25	11.4	24.2	53.3	51.3	39.8	36.8	36	541
31.25	12.8	23.3	51.9	49.9	37.9	34.9	35.1	540
62.5	18.5	20.7	47.4	45.4	31.9	28.9	32	539
100	23.8	19.0	44.3	42.3	27.8	24.8	30	538
200	34.8	16.4	39.8	37.8	21.8	18.8	27	537
250	39.4	15.6	38.3	36.3	19.8	16.8	26	536

AK001 / 210×297 / 1.1

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