

Ø0.81Cable 0.81Cable

1. 適用(SCOPE)

本仕様書は、UL Style 11032 (80°C, 30V) に適合し、電子機器などの内部配線に使用される細径同軸ケーブル “KHCX-36AWG-SB-TA” の構造と特性について定める。

This specification covers the construction and characteristics of coaxial cable “KHCX-36AWG-SB-TA” for internal wiring of electronic equipment. This cable is approved UL Style 11032 (80°C, 30V).

2. ケーブル型名の説明 (EXPLANATION OF CABLE TYPE)

KHCX-36AWG-SB-TA-BLACK

(1) (2) (3) (4)

- (1) ケーブル略称 (Cable Abbreviation)
- (2) 導体サイズ (Conductor Size)
- (3) 外部導体タイプ (Outer Conductor Type)
- (4) シース色 灰,白,黒 (Sheath Color Gray,White,Black)

3. 構造(CONSTRUCTION)

項目 Item		要求特性 Requirement
内部導体 Inner conductor	材質 Material	銀めっき軟銅線 Silver coated annealed copper wire
	構成 Stranding	7/0.05mm
	外径 Diameter	標準 0.15mm Nom. 0.15mm
絶縁体 Insulation	材質 Material	FEP
	色別 Color	自然色 Natural
	厚さ Thickness	標準 0.13mm Nom. 0.13mm
	外径 Diameter	0.40mm+0.04/-0.02
外部導体 Outer conductor	材質 Material	錫めっき軟銅線 Tinned annealed copper wire braid shield
	構成 Stranding	16/3/0.05 mm
シース Sheath	材質 Material	MFA
	色別 Color	灰・白・黒 Gray・White・Black
	厚さ Thickness	標準 0.08mm Nom. 0.08mm
仕上外径 Overall diameter		0.81 + 0.04/-0.02mm
概算質量 Approximate mass		2 kg/km

4. 電気特性(20℃) (ELECTRICAL CHARACTERISTICS at 20 degree)

項目 Item	単位 Unit	要求特性 Requirements
導体抵抗 Conductor Resistance	Ω/km	1357 以下 Max. 1357
絶縁抵抗 Insulation Resistance	MΩkm	1,000 以上 (DC 500V 1 分間充電後) Min. 1,000 (After charge DC 500V for 1 min.)
耐電圧 Dielectric Strength	V/1min.	内部導体-外部導体間 : AC.500V/ 1 分間 No breakdown at AC.500V for 1 min between inner conductor and outer conductor.
静電容量 Capacitance	pF/m	標準 98 (at 1kHz) Nom. 98 (at 1kHz)
特性インピーダンス Characteristic Impedance	Ω	50 ± 3 (at TDR)
減衰量 Attenuation	dB/m	2.0GHz : 5.3 以下 Max.5.3 2.4GHz : 5.9 以下 Max.5.9 3.0GHz : 6.7 以下 Max.6.7 4.0GHz : 7.9 以下 Max.7.9 5.0GHz : 9.2 以下 Max.9.2 6.0GHz : 10.4 以下 Max.10.4

5. UL USE
Internal wiring.

6. 梱包及び荷札の表示 (PACKING AND MARKING ON TAG)

完成品は運送中及び保管中に損傷を生じぬ荷造りをする。
また、荷札の表示は以下の通りとする。

The completed cables shall be coiled and packing in such a manner as to be adequately protected from damage during packing, shipping, and normal handling.

The following items shall be marked in the Tag which is attached to the products.

- 1) 品名 (Type of Cable)
- 2) 導体サイズ (Conductor size)
- 3) 条長 (Length)
- 4) 製造者名または略称 (Manufacturer's name or trade mark)
- 5) 製造年月 (The year and month of manufacture)

なお、完成品にはジョイントを有する場合がある。その場合は条長明細を記載する。
Note : The spool may contain joints. In that case, the detail of length is indicated.

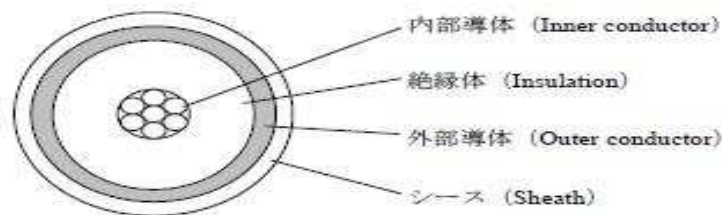
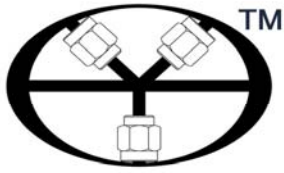


図 1 .ケーブル構造図

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Hwa Yao Technologies Co., Ltd



Ø1.13mm Coaxial cable 500M/ROLL -black 1.13 Cable

SPECIFICATIONS:



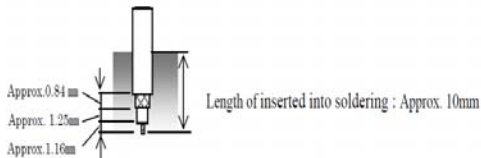
1. CONSTRUCTION

Item		Specified value	Value
Inner conductor	Material	SA(*1)	SA
	Stranding	7/0.08mm	7/0.08 mm
	Diameter	0.24mm	0.24mm
Insulation	Material	FEP	FEP
	Color	Natural	Natural
	Diameter	Nom.0.70mm	0.718 mm
Outer conductor	Material	TA(*2)	TA
	Stranding	-	16/4/0.05 mm
Sheath	Material	MFA	MFA
	Color	BLACK	BLACK
Overall diameter		Nom. 1.13mm	1.137 mm
Good/no-good			Good

*1: Silver coated annealed copper wire *2: Tinned annealed copper wire braid shield

2. CHARACTERISTICS

Item		Specified value	Value					
Inner conductor resistance at 20°C (Ω/km)		Max.597	468.9					
Insulation resistance at 20°C (MΩ.km)		Min.1500	> 1,000,000					
Dielectric strength (*3)	Dielectric core	No breakdown	No breakdown					
	Sheath	No breakdown	No breakdown					
	between cond.	No breakdown	No breakdown					
Heat resistance for solder (*4)	Insulation	Max. 0.2	No.1	No.2	No.3	No.4	No.5	Ave
	Sheath	Max. 0.4	0.01	0.08	0.04	0.02	0.05	0.04
Heat resistance for solder (*5)	Insulation	Max. 0.2	0.21	0.18	0.17	0.14	0.17	0.18
	Sheath	Max. 0.4	0.08	0.03	0.08	0.09	0.07	0.07
Bending test (*6)		-	0.30	0.30	0.29	0.29	0.28	0.29
			156,257	148,256	170,592	-	-	158,368



Item		Specified value	Value
Capacitance at 1kHz (pF/m)		Nom. 98	96.3
Characteristic impedance (Ω)		50±2	49.6
Attenuation (dB/m)	at 2.0 GHz	Max. 2.9	2.71
	at 2.4 GHz	Max. 3.2	3.00
	at 3.0 GHz	Max. 3.7	3.40
	at 5.0GHz	Max. 4.8	4.57
	at 6.0 GHz	Max. 5.3	5.10
Good/no-good			Good

*3: Dielectric core; at AC 1.5KV for 0.15sec. Sheath; at AC1.5KV for 0.15sec
Outer conductor to inner conductor at AC1000V for 1min

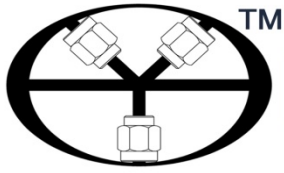
*4: Shrinkage of Insulation and Sheath with soldering at 260°C × 2sec (See Fig.1)

*5: Shrinkage of Insulation and Sheath with soldering at 280°C × 2sec (See Fig.1)

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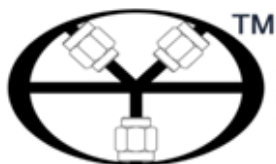
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UL 1979 Mini Coaxial Cable 1.32 Cable 1.32 Cable

SPECIFICATIONS:

Style	UL 1979 105°C 30V		
Size	32AWG		
Standard :			
Conductor	Size	AWG	32
	Material	----	Silver Cover Copper
	Conductors No.	----	7
	Construction Size	mm	0.080 ± 0.005
	Stranded Diameter	mm	0.24
Insulation	Material	----	FEP
	Color	----	Clear
	Average Thickness	mm	0.22
	Diameter	mm	0.68 ± 0.02
Braid Shield	Material	----	Silver Cover Copper
	Construction	mm	16 / 4 / 0.050
	Coverage	%	91
Braid Shield	Material	----	Silver Cover Copper
	Construction	mm	16 / 4 / 0.050
	Coverage	%	78
Jacket	Material	----	FEP
	Color	----	Grey / 灰
	Average Thickness	mm	0.12
	Overall Diameter	mm	1.32 ± 0.05
Marking	Non		
Drawing			



Ø1.37mm Coaxial cable
1.37 Cable-black

SPECIFICATION

STYLE	105°C 30V UL1979	DOCUMENT NO : A3130SP002	
SIZE	30 AWG	ESTABLISHED DATE: Mar/04/2005	
STANDARD :			
Conductor	Size	AWG	30
	Material	----	Silver-Coated Copper
	Conductors No.	----	7
	Conductors Size	mm	0.107
Insulation	O.D.	mm	0.32
	Average Thickness	mm	0.30
	Diameter	mm	0.92 ±0.03
	Material	----	FEP
Braid	Color	----	Clear
	Material	----	Tinned Copper
	Construction	mm	16 / 6 / 0.05
Jacket	Coverage	%	96.4
	Average Thickness	mm	0.13
	Diameter	mm	1.37 ±0.05
	Material	----	FEP
Marking	Color	----	ACCORDING TO CUSTOM
	Drawing		

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