

SPECIFICATION

FOR

UL RECOGNIZED HIGH FREQUENCY COAXIAL CABLE

[P/N ;UL1745 SB CX-50 1×32AWG(7/0.08) D=1.13]

Quantity

Your Ref. No.

Our Ref. No.




Signed by 

Katsumi Chigira

Manager

Engineering section
Production department

Hitachi Cable (Suzhou) CO., Ltd.

Approved	Reviewed	Prepared
		

1. Scope

This specification covers UL recognized Fluoroethylene-propylene insulated high frequency coaxial cable.

[UL1745 : 90°C, 30V]

Use : Internal wiring of Class 2 Circuits of Electronic Equipment.

2. Marking

2.1 Marking on the wire

No marking on the wires.

2.2 Marking on the tag attached to reel

Each reel shall be tagged to show the following information with UL label.

- | | |
|----------------------|---------------------------|
| (1) UL Style | (8) File No. |
| (2) Conductor size | (9) Rating temperature |
| (3) No. of conductor | (10) Rating voltage |
| (4) Color | (11) Date of manufacture |
| (5) Lot No. | (12) Insulation thickness |
| (6) Length | (13) Name of manufacturer |
| (7) Use | |

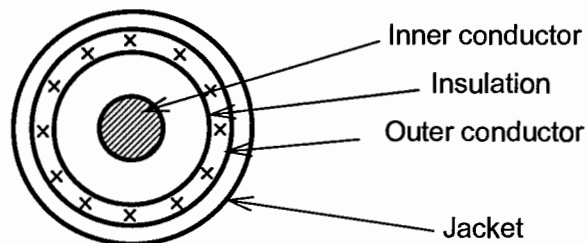


Fig.1 Cross-section of cable

Table 1 Construction and Properties

Item	Unit	Specified Value	
Inner Conductor	Material	—	silver plated annealed copper wire
	AWG size	—	32
	Stranding	No./mm	7/0.08
	Diameter	mm	0.24
	Number	—	1
Insulation	Material	—	Fluorocarbon polymer
	Thickness	mm	Nom. 0.21
	Diameter	mm	$0.68^{+0.04}_{-0.02}$
	Color	—	Natural
Outer Conductor	Material	—	Tinned annealed copper wire
	Form	—	Braid
	Strand	mm	0.05
	Coverage	%	Min. 90
	Diameter	mm	Nom. 0.88
Jacket	Material	—	Fluorocarbon polymer
	Thickness	mm	Nom. 0.125
	Diameter	mm	$1.13^{+0.08}_{-0.05}$
	Color	—	Black, White, Red, Green, Yellow, Brown, Blue, Orange, Gray, Violet
Unit length	m	305	
Package	—	paper reel	
Approx. mass	kg/km	4.0	
Inner Conductor resistance at 20°C	Ω /km	Max. 597	
Dielectric strength*	—	A.C. 500V for 1minute	
Insulation resistance* at 20°C	M Ω -km	Min. 1000	
Characteristic impedance by TDR	Ω	50 ± 2	
Capacitance * at 1kHz	pF/m	Nom. 95	
Nominal attenuation	at 1GHz	dB/m	2.0
	at 2GHz	dB/m	2.9
	at 3GHz	dB/m	3.6
	at 4GHz	dB/m	4.2
	at 5GHz	dB/m	4.7
	at 6GHz	dB/m	5.2
Flammability	—	VW-1	

* Between inner conductor and outer conductor