

SPECIFICATION

FOR

UL RECOGNIZED FEP INSULATED HIGH FREQUENCY COAXIAL CABLE

[P/N ; UL1745-SB CX-50 1×30AWG(7/0.102)D=1.48]

Quantity

Your Ref. No.

Our Ref. No.

Signed by 




Kazuhiro Aida

Deputy Manager

Engineering section

Engineering department

Hitachi Cable (Suzhou) CO., Ltd.

Approved	Reviewed	Prepared
		

Issue and revision record

Rev. No.	Issue date	Item	Prepared by	Reviewed by	Approved by
-	May. 25, 2007	Initial issue	<i>H. Shen</i> H. Shen	<i>K. Aida</i> K. Aida	<i>K. Aida</i> K. Aida

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. Construction and materials

Item		Unit	Specified Value
Inner conductor	Material	-	Silver plated copper clad steel wire
	AWG size	-	30
	Stranding	No./mm	7/0.102
	Dia.	mm	0.30 ± 0.03
Insulation	Material	-	Fluoroethylene-propylene(FEP)
	Thick.(nom.)	mm	0.27
	Dia.	mm	0.84 ± 0.06
	Color	-	Natural
Outer conductor	Type	-	Braid
	Material	-	Silver plated annealed copper wire
	Strand	mm	0.08
	Constraction	mm	3×16
	Coverage (min.)	%	90
	Dia.	mm	1.24 ± 0.07
Jacket	Material	-	Ethylene-tetrafluoroethylene(ETFE)
	Thick.(nom.)	mm	0.12
	Dia.	mm	1.48 ± 0.08
	Color	-	Black,White,Red,Green, Yellow,Brown,Blue, Orange,Gray,Violet
Unit length	L=100	m	100 (Paper reel or Coil)
	L=200	m	200(Paper reel or Coil)
Approx. mass		Kg/km	5.1

3. Properties

Item	Unit	Specified Value
Rating voltage	V	30
Inner conductor resistance (at 20°C)	Ω /km	Max. 832
Dielectric strength*	-	Withstand A.C.1000V for 1min.
Insulation resistance* (at 20°C)	M Ω -km	Min. 1,000
Characteristic impedance (at TDR)	Ω	50 \pm 2
Capacitance (at 1kHz)	pF/m	95 \pm 10
Attenuation (Nom.)	dB/m	1.5 (1GHz)
	dB/m	2.2 (2GHz)
	dB/m	2.8 (3GHz)
	dB/m	3.3 (4GHz)
	dB/m	3.7 (5GHz)
	dB/m	4.2 (6GHz)

* Between inner conductor and outer conductor

4. Marking

4.1 Marking on the wire

No marking on the wires.

4.2 Marking on the tag attached to reel

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

- | | |
|-----------------------|---------------------------|
| (1) UL Style No. | (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 manufacture |
| (7) Use | |

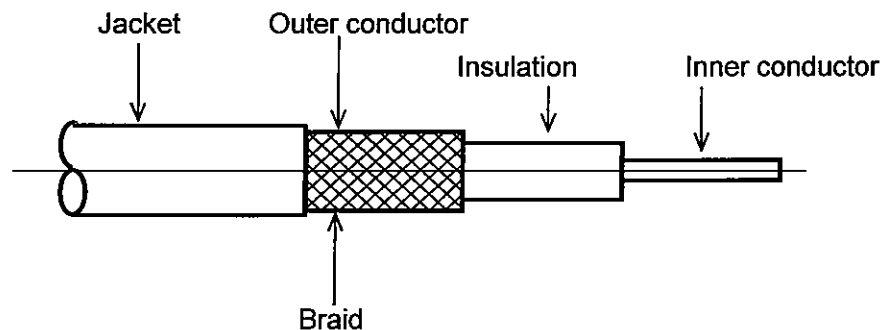


Fig.1 Construction of cable