

## 1. Scope

This specification covers multi micro-coaxial cable for medical equipment.

## 2. Construction and Material

Item		Unit	Specified Value	
Core Number		-	Unit A:10	Unit B:4
Conductor	Size	AWG	30	30
	Material	-	Silver plated copper	Tinned copper
	Stranding	No./mm	7/0.10	19/0.06
Insulation	Material	-	Fluoropolymer	Fluoropolymer
	Color	-	Black	Black
	Thickness	mm	0.29	0.13
	Diameter	mm	0.89	0.56
Spiral Shield	Type	-	Wrap	Wrap
	Material	-	Tinned copper	Tinned copper
	Coverage	&	Min.95	Min.95
Jacket	Material	-	PET Tape	Fluoropolymer
	Color	-	tbd	tbd
	Thickness	mm	0.05	0.05
	Diameter	mm	1.04±0.05	0.76±0.03
Cabling		-	See Fig.1	
Tape	Material	-	PTFE	
Braid Shield	Material	-	Tinned copper	
	Coverage	%	Nom.90	
Sheath	Material	-	PVC (Color: Black)	
	Thickness	mm	0.8	
	Diameter	mm	6.6±0.3	

\* Add the filler to make the cable round if necessary.

### 3. Electrical Properties

Item	Unit	Specified Value	
		A:30WG	B:30AWG
Conductor Resistance (@ 20°C)	$\Omega$ /km	Max. 354	Max. 354
Insulation resistance (@ 20°C)	M $\Omega$ -km	Min. 1,000	
Dielectric Strength <sup>1)</sup>	-	To withstand A.C. 500V for 1min	
Capacitance (@ 1kHz)	pF/m	110±10	-
Impedance (@ 10Mhz)	$\Omega$	50±5	-

Note 1): Applied between conductor and spiral shield with 30AWG coax

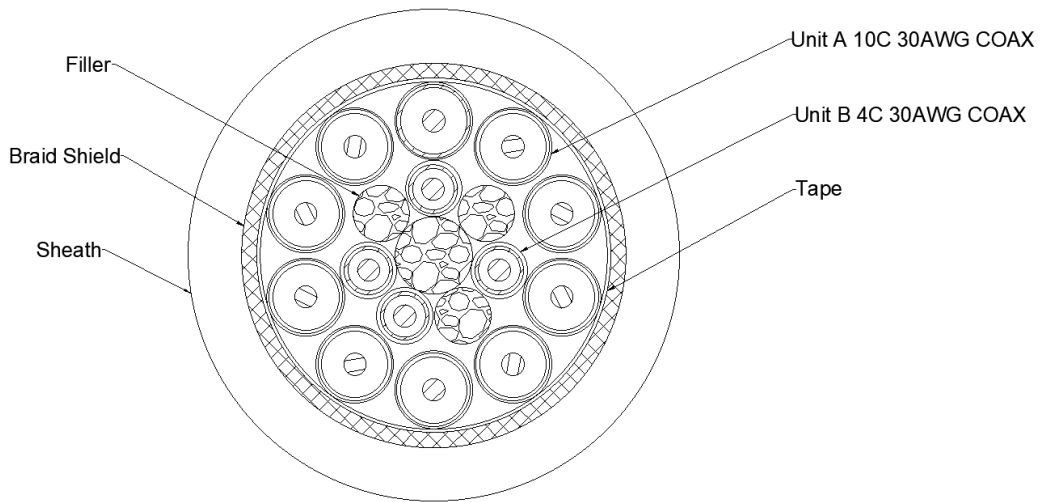


Fig. 1 Cross section of cable

**REVISION RECORD**

<b>Rev. No</b>	<b>Issue date</b>	<b>Item</b>	<b>DWN</b>	<b>CHK</b>	<b>APVD</b>
1	12/12/2023	tbd	Carter.Wang	Lester.Xu	Lester.Xu

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