

# SPECIFICATION

12C(1×38AWG+5×45AWG+1×42AWG+2×  
42AWG+3×36AWG)

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Review: Ian Strong  
Approved: Zach Shawn

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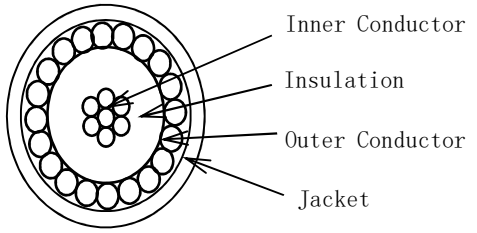
**1. (Scope)**

This cable is used for medical equipment.

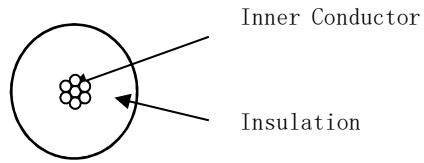
**2. (Construction)**

Item	Unit	Specified Value					
		38AWG Coaxial	44AWG Coaxial	42AWG Coaxial	42AWG Coaxial	36AWG Wire	
Number of cores	-	1(A)	5(B)	1(C)	2(D)	3(E)	
Inner Conductor		Silver plated copper alloy	Silver plated copper alloy	Silver plated copper alloy	Silver plated copper alloy	Silver plated copper alloy	
	Stranding	No./mm	7/0.04	7/0.019	7/0.025	7/0.025	7/0.05
	Dia.	mm	0.12	0.057	0.075	0.075	0.15
Insulation	Material	-	FEP	PFA	PFA	PFA	PFA
	Thick.	mm	0.09	0.035	0.055	0.055	0.045
	Diameter	mm	0.30±0.03	0.13±0.02	0.185±0.02	0.185±0.02	0.24
	Color	-	Violet	See below	Yellow	See below	See below
Outer Conductor	Type	-	Wrap	Wrap	Wrap	Wrap	
	Material		Silver plated copper	Silver plated copper	Silver plated copper	Silver plated copper	
	Strand.	mm	0.03	0.03	0.03	0.03	
	Coverage	%	Min.90	Min.90	Min.90	Min.90	
	Material	-				AL/EPT	
Shield	Thick.	mm	-			0.02	
Jacket	Material	-	PFA	PFA	PFA	PFA	
	Thick.	mm	0.03	0.03	0.03	0.02	
	Dia.	mm	0.43	0.25	0.3	0.33	
	Color	-	Violet	Same as Insulation	Yellow	Same as Insulation	-
Ass.	Dia.	mm	1.3				
Binder Tape	Material	-	PTFE				
	Thick.	mm	0.05				
Shield	Type	-	Wrap				
	Material	-	Silver plated copper				
	Strand	mm	0.05				
	Coverage	%	80				
Sheath	Material	-	FEP				
	Thick.	mm	0.1				
	Diameter	mm	1.7±0.1				
	Color	-	Brown				

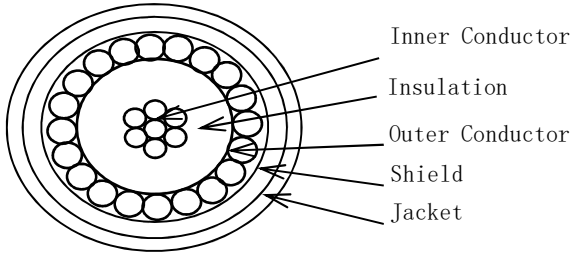
**3. (Cross-section)**



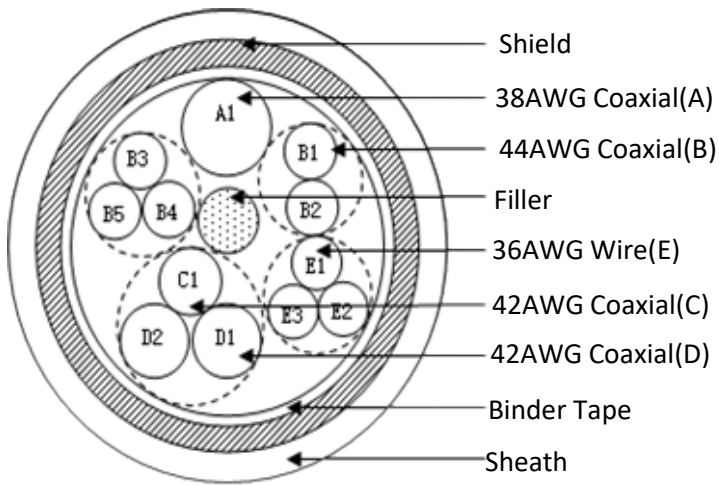
36AWG(A)/44AWG(B)/42AWG(C) Coaxial



36AWG(E) Wire



42AWG(D) Coaxial



NO.	Color	NO.	Color
A1	Violet	C1	Yellow
B1	Black	D1	Red
B2	Blue	D2	Brown
B3	Green	E1	Gray
B4	White	E2	Nature
B5	Brown	E3	Black

**4. (Electrical Properties)**

Item	Specified Value					
	Unit	38AWG	44AWG	42AWG	42AWG	36AWG
		Coaxial(A)	Coaxial(B)	Coaxial(C)	Coaxial(D)	Wire(E)
Rating temperature	°C	80				
Rating voltage	V	30				
(20°C)						
Conductor Resistance	Ω/km	Max.3,500	Max.12,500	Max.7,500	Max.7,500	Max.1,900
(20°C)						
Insulation Resistance	MΩ-km	Min. 1,000	Min. 1,000	Min. 1,000	Min. 1,000	Min. 1,000
Characteristic impedance	Ω	Nom. 45	Nom. 45	Nom. 45	Nom. 45	-

**5. (Packing)**

(1) Unit length : 250m(Min.10m)

(2) Package : Paper Reel

Version	-	Initial
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