

# SPECIFICATION

12C(1×40AWG+3×42AWG+2×38AWG+1P×  
41AWG+2P×39AWG)

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Review: Ian Strong

Approved: Zach Shawn

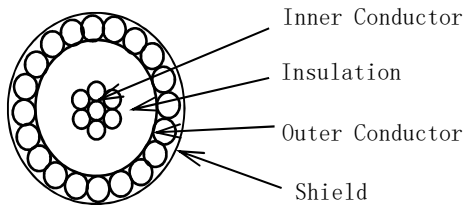
**1. (Scope)**

This cable is used for medical equipment.

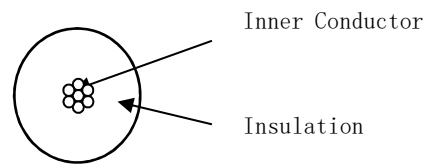
**2. (Construction)**

Item		Unit	Specified Value				
			40AWG	42AWG	38AWG	41AWG	39AWG
			Coaxial	Wire	Coaxial	UTP	UTP
Number of cores		-	1(A)	3(B)	2(C)	1P(D)	2P(E)
Inner			Silver plated copper Alloy	Silver plated copper Alloy	Silver plated copper	Silver plated copper Alloy	Silver plated copper
Conductor	Stranding	No./mm	7/0.03	7/0.025	7/0.04	7/0.028	7/0.032
	Dia.	mm	0.09	0.075	0.12	0.084	0.096
Insulation	Material	-	PFA	PFA	PFA	PFA	PFA
	Thick.	mm	0.08	0.03	0.04	0.03	0.048
	Diameter	mm	0.25±0.02	0.13±0.02	0.2±0.02	0.15±0.02	0.19±0.02
	Color	-	Violet	See below	Yellow	See below	See below
Outer Conductor	Type	-	Wrap	-	-	-	-
	Material		Tin plated copper	-	-	-	
	Strand.	mm	0.03	-	-	-	
	Coverage	%	Min.90	-	-	-	
	Material	-	CU-PET			-	
Shield	Thick.	mm	0.01			-	
Twisting		mm				0.3	0.38
	Material	-	Tin Plated copper Alloy				
Drain Wire	Gauge	AWG	40AWG				
	Stranding	No./mm	7/0.03				
Ass.	Dia.	mm	0.78				
	Material	-	PET				
Binder Tape	Thick.	mm	0.01				
	Type	-	Wrap				
Shield	Material	-	Tin plated copper				
	Strand	mm	0.05				
	Coverage	%	90				
	Material	-	FEP				
Sheath	Thick.	mm	0.04				
	Diameter	mm	0.98±0.1				
	Color	-	White				

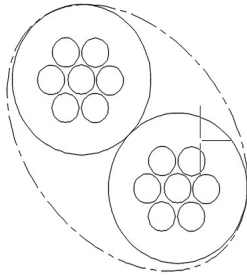
**3. (Cross-section)**



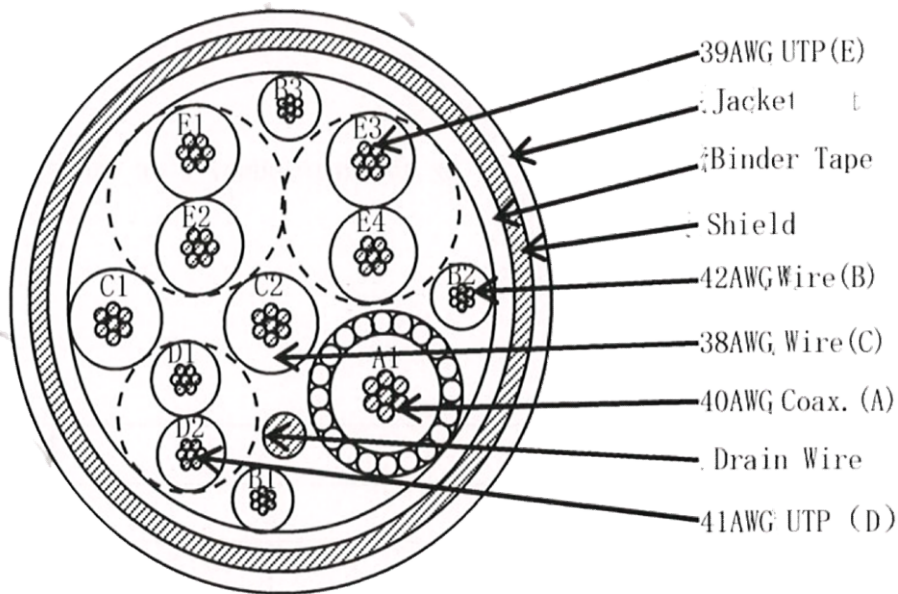
40AWG Coaxial (A)



42AWG(B) /38AWG(C) Wire



41AWG(D)/39AWG (E), UTP



NO.	AWG	Color	NO.	AWG	Color
A1	40	Yellow	D1	41	Yellow
B1	42	White	D2	41	Green
B2	42	Black	E1	39	Red
B3	42	Pink	E2	39	Orange
C1	38	Green	E3	39	Blue
C2	38	Nature	E4	39	Grey

#### 4. (Electrical Properties)

Item	Unit	Specified Value				
		40AWG	42AWG	38AWG	41AWG	39AWG
		Coaxial(A)	wire(B)	wire(C)	UTP(D)	UTP(E)
Rating temper	°C	80				
Rating voltage	V	30				
(20°C)						
Conductor Resistance	Ω/km	Max.5,000	Max.7,500	Max.2,500	Max.6,500	Max4,300
(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. 50±5				100±10

#### 5. (Packing)

- (1) Unit length : 200m(Min.10m)
- (2) Package : Bobbin Reel

Version	-	Initial
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