

SPECIFICATION

14C(4CX34AWG+4PX34WG+2X34AWG)白色Φ4.0mm

ShenZhen HiFlexlink Technology Co., Ltd

Prepared	Reviewed	Approved

1. Scope

This specification covers multi micro-coaxial high performance cable for endoscope equipment

2. Construction and material

Item		Unit	Specified Value		
			A: 34AWG Wire	B: 34AWG Wire	C: 34AWG Wire
Number of cores		-	4Coaxial	4Pair	2C
Inner Conductor	Material	-	Silver plated copper alloy wire		
	Stranding	No./m m	7/0.06±0.005		
	Diameter(Nom.)	mm	0.18		
Insulation	Material	-	PFA		
	Thickness(Nom.)	mm	0.2	0.09	0.075
	Diameter(Nom.)	mm	0.58±0.05	0.36±0.05	0.36±0.05
	Color	-	See Fig.2		
Twisting	Stranding	-		P(B1=4.5/B2=7.0/B3=7.0/B4=7.0)	-
	Diameter(Nom.)	mm		0.72±0.05	-
Outer Conductor	Type	-	Spiral	-	-
	Material	-	Tin plated copper alloy	-	
	Thickness(Nom.)	mm	0.05±0.005		
	Diameter(Nom.)	mm	0.05		
Jacket	Material	-	PET4/AC3.0		
	Thickness(Nom.)	mm	0.016		
	Diameter(Nom.)	mm	0.75		
	Color	-	Blue		
Cabling	Fill	-	-		
	Diameter(Nom.)	mm	2.5		
Shield	Material	-	Aluminum foil Myla		
	Thickness(Nom.)	mm	0.025 ±0.005		
	Type	-	Spiral		
	Coverage(Nom.)	-	≥90%		
Braid	Material	-	Tin plated copper alloy		
	Diameter(Nom.)	mm	3.1		
	Stranding	-	16/6/0.1		
	Coverage(Nom.)	%	≥90%		

Sheath	Color	-	White
	Thickness(Nom.)	mm	0.5
	Diameter(Nom.)	mm	4.0

3. Electrical Properties

Item	Unit	Specified Value		
		34AWG @ Unit A	34AWG@ Unit B	34AWG@ Unit C
Conductor Resistance (20°C)	Ω/km	MAX.956		
Insulation Resistance (20°C)	M Ω -km	Min. 1,000		
Dielectric Strength (*1)	-	To withstand A.C. 500V for 1 min.		
Differential Impedance	Ω	100±10	-	-
Characteristic impedance(at 10MHz) (*2)	Ω	-	50±5	-

4. Sectional View

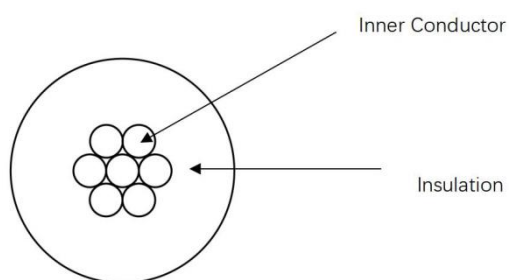
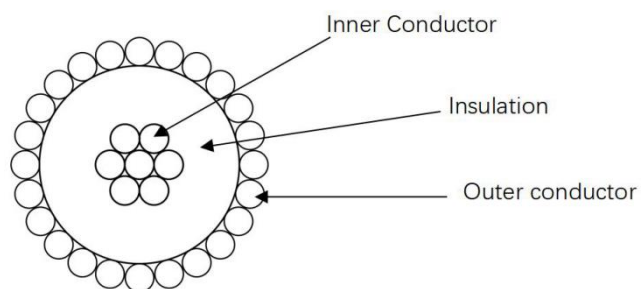
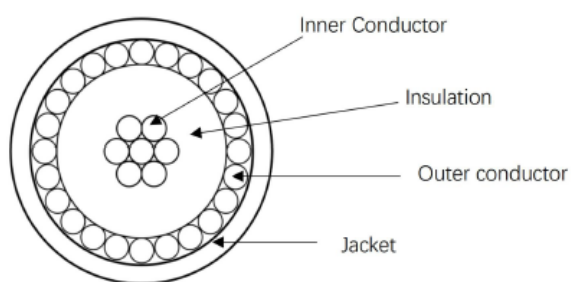


Fig.1 Cable section diagram

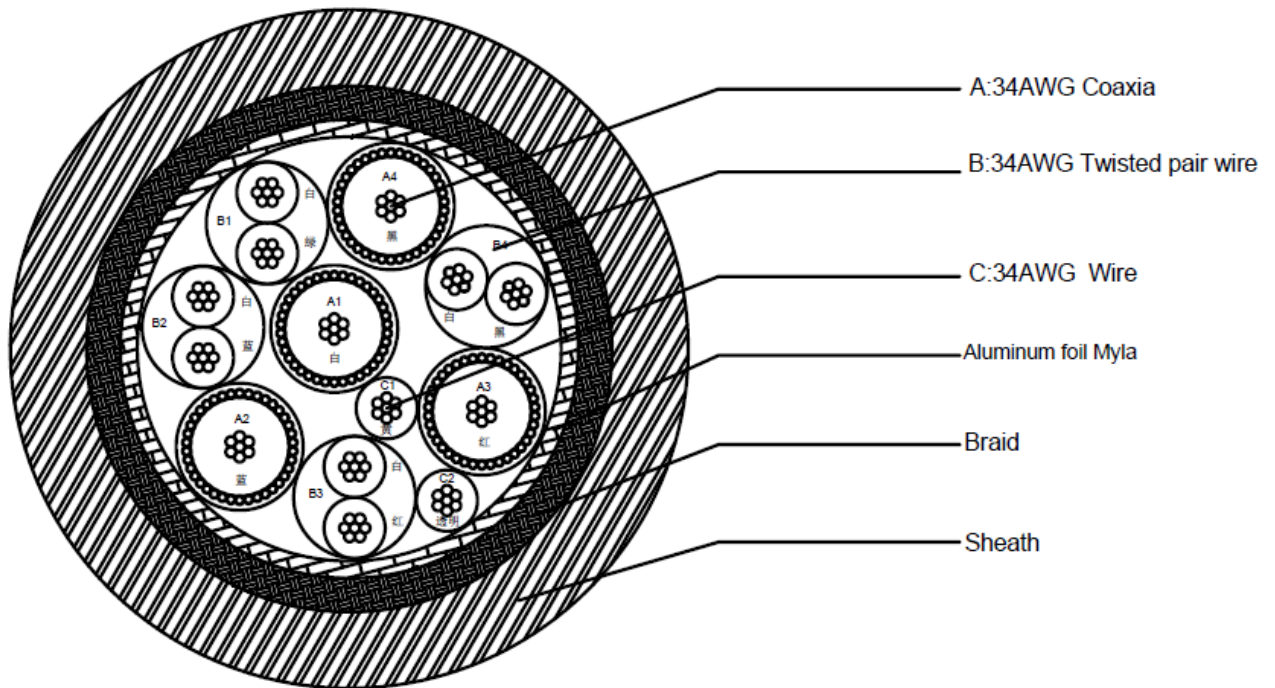


Fig.2 : Color list

Core No.	Color of insulation	Color of Jacket	Core No.	Color of insulation	Core No.	Color
A1	White	Blue	B1	White&Green	C1	Yellow
A2	Blue	Blue	B2	White&Blue	C2	Transparent
A3	Red	Blue	B3	White&Red		
A4	Black	Blue	B4	White&Black		