

SPECIFICATION

12C(3PX40AWG+1coax X40AWG+5X40AWG)-0.98

Prepared	Reviewed	Approved

1. Scope

Use the matching wire on the endoscope

2. Construction and material

Item		Specified Value			Unit
Core No.		Unit A:1Coaxial	Unit B:3P	Unit C:5C	-
Inner Conductor	AWG Size	40AWG	40AWG	40AWG	AWG
	Material	Silver plated silver copper alloy(2%Ag)			-
	Stranding	7/0.03±0.003	7/0.03±0.003	7/0.03±0.003	mm
	Diameter(Nom.)	0.09	0.09	0.09	mm
Insulation	Material	PFA			-
	Color	Transparent	See Figure 1	See Figure 1	-
	Thickness(Nom.)	0.08	0.045	0.03	mm
	Diameter(Nom.)	0.23±0.01	0.18±0.01	0.15±0.02	mm
Outer Conductor	Type	Wrap	-	-	-
	Material	Tinned copper	-	-	-
	Thickness(Nom.)	0.03±0.003	-	-	mm
	Diameter(Nom.)	0.29±0.01	-	-	mm
Twisting	Diretion and Pitch	-	S/P=4.5	-	mm
	Stranding	SeeFig.1			-
	Diameter(Nom.)	-	0.36±0.01	-	mm
Shield	Material	Silver plated silver copper alloy			mm
	Stranding	7/0.04±0.003			mm
Cabling	Fill	-			mm
	Diretion and Pitch	S/P=20±5mm			mm
	Diameter	0.85±0.05			mm
Shield	Material	Tinned copper			-
	Thickness(Nom.)	0.05±0.003			mm
	Type	Wrap/			-
	Coverage(Nom.)	95%(Min.90%)			-
	Diameter(Nom.)	0.95			
Sheath	Material	PFA			-
	Color	Gray			-
	Thickness (Nom.)	0.03			mm
	Diameter	0.98±0.02			mm

3. Electrical Properties

Item	Specified Value			Unit
	40AWG Pair	40AWG Coaxial	40AWG DC	-
Conductor resistance (20℃)	≤4500	≤4500	≤4500	Ω /km
Insulation resistance (20℃)	Min. 1,000			MΩ -km
Dielectric Strength (*1)	To withstand A.C. 500V for 1 min.			-
Differential Characteristic Impedance(10MHz)	100±10	-	-	Ω
Characteristic impedance(at 10MHz) (*2)	-	50±5	-	Ω

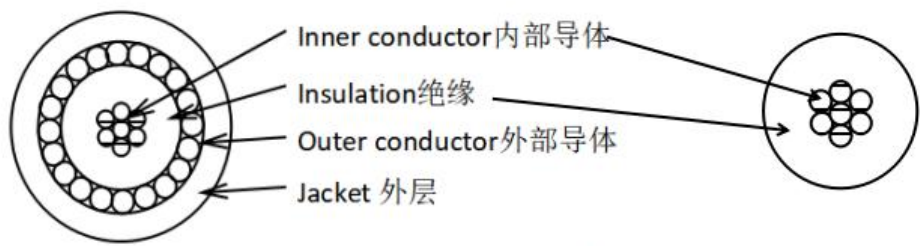
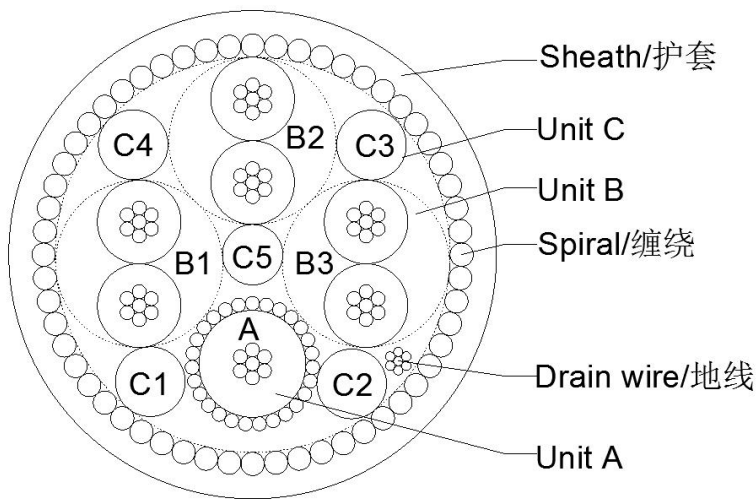


图1 同轴和单线截面



Cross section of cable

Figure.1 Cross section view of cable

Core No.	Color of insulation
A	Transparent
B1	Orange&Brown
B2	Grey&Black
B3	White&Green
C1	Yellow
C2	Green
C3	Purple
C4	Blue
C5	Red
-	-
-	-