

SPECIFICATION

15C(2PX40AWG+6X40AWG+1coax X40AWG+4X44AWG)-1.2

Prepared	Reviewed	Approved

1. Scope

Use the matching wire on the endoscope

2. Construction and material

Item		Specified Value				Unit
Core No.		Unit A:2P	Unit B:6C	Unit C: 1coaxial	Unit D:4C	-
Inner Conductor	AWG Size	40AWG	40AWG	40AWG	44AWG	-
	Material	Silver plated copper alloy wire				-
	Stranding	7/0.03±0.005	7/0.03±0.005	7/0.03±0.005	7/0.02±0.005	No./mm
	Diameter(Nom.)	0.09	0.09	0.09	0.06	mm
Insulation	Material	PFA				-
	Color	See sheet3				-
	Thickness(Nom.)	0.040	0.035	0.075	0.03	mm
	Diameter(Nom.)	0.16±0.05	0.16±0.05	0.24±0.05	0.12±0.05	mm
Twisting	Stranding	White&Pink、Red&Black	-	-	-	-
	Diameter(Nom.)	0.36±0.05	-	-	-	mm
Outer Conductor	Type	-	-	Wrap	-	-
	Material	-	-	Tin plated copper alloy	-	-
	Thickness(Nom.)	-	-	0.03±0.005	-	mm
	Diameter(Nom.)	-	-	0.30	-	mm
Jacket	Material	-	-	PET2.5+PET4/AC	-	-
	Color	-	-	Transparent+Green	-	-
	Thickness(Nom.)	-	-	0.034	-	mm
	Diameter(Nom.)	-	-	0.34±0.05	-	mm
Cabling	Fill	Kevlar				-
	Diameter(Nom.)	0.86				mm
Shield	Material	Tin plated copper alloy				-
	Thickness(Nom.)	0.05±0.008				mm
	Type	Wrap				-
	Coverage(Nom.)	≥90%				-
	Diameter(Nom.)	1.0				
Sheath	Material	PFA				-
	Color	Gray				-
	Thickness (Nom.)	0.05				mm
	Diameter	1.18±0.03				mm

Sheet 2 Electrical Properties

Item	Specified Value			Unit
	40AWG @ Unit A	40AWG@ Unit C	44AWG	
Conductor resistance (20℃)	$\leq 5,000$		$\leq 14,500$	Ω/km
Insulation resistance (20℃)	$\geq 1,000$			$\text{M}\Omega\cdot\text{km}$
Dielectric Strength (*1)	To withstand A.C. 500V for 1 min.			-
Differential Characteristic Impedance(10MHz)	100 ± 10	-	-	Ω
Characteristic impedance(at 10 MHz)	-	50 ± 5	-	Ω

*1: Applied between inner conductor and outer conductor. (For 40AWG coaxial cable)

Applied between inner conductors.(For 40AWG,44AWG Wire)

*2: Test under D-TDR

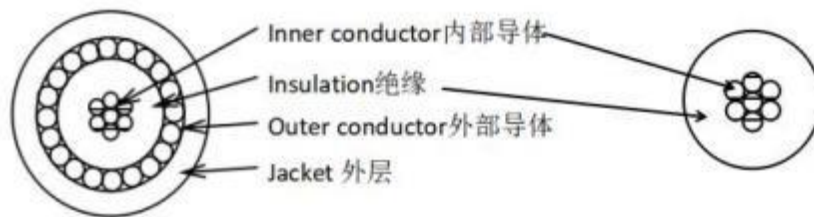
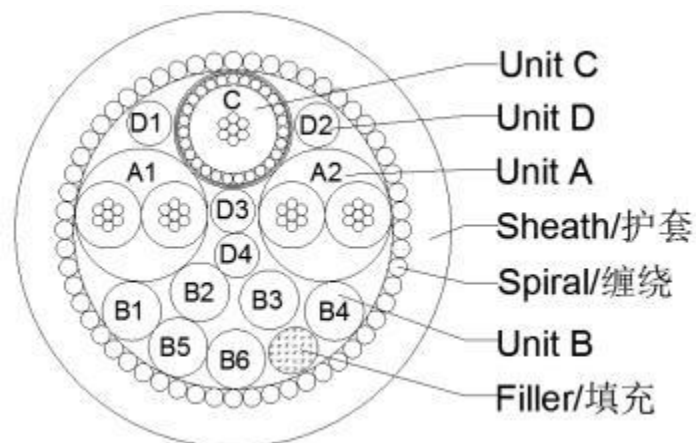


图1 同轴和单线截面



Note1: The letters in circles indicate core number shown in sheet3.

Sheet3 . Color of Core

Core No.	Color of insulation
A1	Red×Black
A2	White×Pink
B1	Gray
B2	Purple
B3	Green
B4	Brown
B5	Yellow
B6	Orange
C	Inner White,outer Green
D1	Transparent
D2	Blue
D3	Transparent
D4	Blue