

SPECIFICATION

10C(4 Coax×34AWG+3×34AWG+2×34AWG+1×32AWG)-3.8mm

Prepared	Reviewed	Approved

1. Scope

Use the matching wire on the endoscope

2. Construction and material

	Item	Specified Value				Unit
	Core No.	4(A)	3(B)	2(C)	1(D)	/
Inner Conductor	AWG Size	34	34	34	32	/
	Material	Tinned copper wire	Tinned copper wire	Tinned copper wire	Tinned copper wire	/
	Stranding	7/0.064±0.008	7/0.064±0.008	7/0.064±0.008	7/0.08±0.008	mm
Insulation	Material	FEP				-
	Color	See.Sheet3				-
	Thickness(Nom.)	0.19	0.1	0.1	0.09	mm
	Diameter(Nom.)	0.57±0.05	0.40±0.05	0.40±0.05	0.42±0.05	mm
Sprial	Material	Tinned copper wire	/	/	/	/
	Construction	35±3/0.05±0.005	/	/	/	mm
	Coverage(Nom.)	≥95	/	/	/	%
Jacket	Material	FEP	/	/	/	/
	Thickness(Nom.)	0.08	/	/	/	/
	Diameter(Nom.)	0.84	/	/	/	/
	Color	See.Sheet3	/	/	/	/
Filler	Material	Kevlar				mm
Tape	Material	AVMylar(Al face outside)				mm
	Coverage(Nom.)	25				%
Braid	Material	Tinned copper wire				/
	Construction	16/10/0.06				mm
	Coverage	≥85				%
Sheath	Material	Non-migration PVC (Medical grade)				/
	Color	Lvory				/
	Thickness (Nom.)	0.40				mm
	Diameter	3.80±0.20				mm

Sheet 2 Electrical Properties

Item	Specified Value	Unit
Spark test	1.50 for insulation&Jacket	KV
MaxConductor resistance at 20C	900(34AWG).557(32AWG)	Ohm/km
Max.Braid shield resistance at 20C	900.00	Ohm/km
Min.Insulation resistance (DC 500V)	1000.00	MOhm/km
Rating Temperature	60	°C
Rating Voltage	30	V
Impedance(@TDRUnit A)	Nom.50	Ω
Capacitance (at 1kHz,Unit A)	Nom.95	pf/m
Dielectric strength	AC 0.50(Con.-Con.)	kw/1min.
	AC 4.00 (Spiral-Braid)	
Non-migration test(60Cx48hx250gABS)	No track	

*1: Applied between inner conductor and outer conductor.

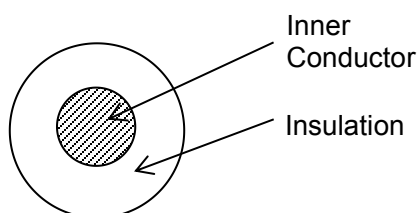


Fig.1 Cross section of wire

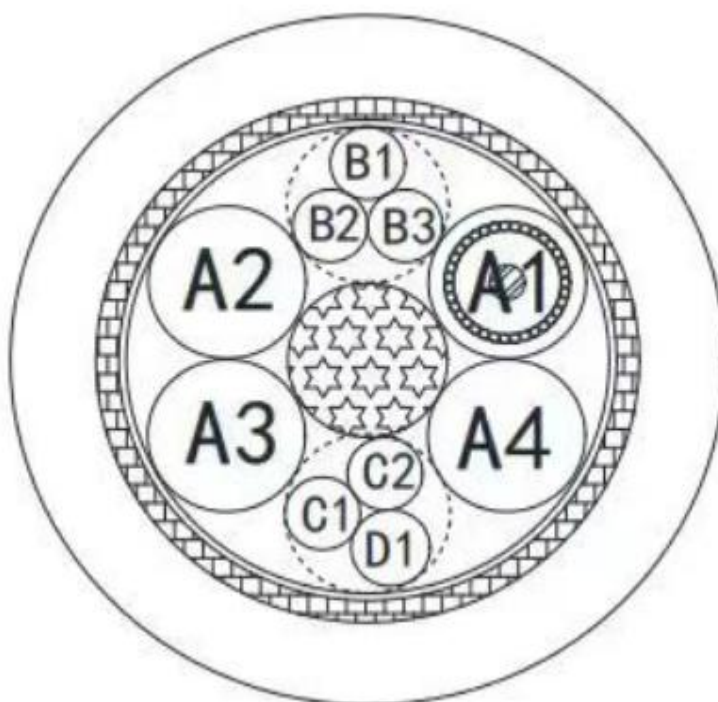


Fig.2 Cross section of cable

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

Sheet3 .Color of Core

Core No.	Color of insulation	Color of Jack
A1	Yellow	Gray
A2	Red	Gray
A3	Blue	Gray
A4	Green	Gray
B1	Brown	
B2	Red	
B3	Orange	
C1	Yellow	
C2	Blue	
D1	Purple	