

SPECIFICATION

10C(2X34AWG+2X28AWG+6X30AWG)

Prepared	Reviewed	Approved

1. Scope

This specification covers multi micro-core high performance cable for endoscope

2. Construction and properties

	Item		Specified Value			Unit
	Core No.		2(A)	2(B)	6(C)	/
	Inner Conductor	AWG Size	28	34	32	/
		Material	Tinned annealed copper			/
		Stranding	7/0.12	7/0.064	7/0.08	No./mm
		Diameter(Nom.)	0.36	0.192	0.24	mm
	Insulation	Material	FEP			-
		Color	See Sheet 3	Transparent	See Sheet 3	-
		Thickness(Nom.)	0.07	0.17	0.07	mm
		Diameter(Nom.)	0.63	0.53	0.5	mm
Cabling	Diameter	/	/	/	/	
Shield	Material	/	/	/	-	
	Diameter(Nom.)	/	/	/	mm	
shield	Material	/	Tin Hard copper alloy wire	/	/	
	Thickness(Nom.)	/	0.05	/	mm	
	Coverage(Nom.)	/	95(Min.90)	/	%	
Sheath	Material	/	FEP	/	-	
	Color	/	See Sheet 3	/	-	
	Thickness (Nom.)	/	0.07	/	mm	
	Diameter	/	0.88	/	mm	
Drain wire	Material	Tinned annealed copper				
	Construction	/				
Cabling	Diameter	2.2			mm	
Shield	Material	AL/PET			-	
	Diameter(Nom.)	2.3			mm	
Spiral	Material	Tin Hard copper alloy wire			/	
	Thickness(Nom.)	0.16			mm	
	Coverage(Nom.)	90(Min.90)			/	
Sheath	Material	PVC			/	
	Color	White				
	Thickness (Nom.)	0.7				
	Diameter	4.2				
Spiral	Material	Tin Hard copper alloy wire			/	
	Thickness(Nom.)	0.16			mm	
	Coverage(Nom.)	90(Min.90)			mm	
Sheath	Material	PVC				
	Color	White				
	Thickness (Nom.)	0.74				
	Diameter	6.0				

Sheet 2 Electrical Properties

Item	Specified Value			Unit
	28AWG	32AWG	3436AWG	-
	Max. 238	Max. 600	Max. 960	Ω /km
Insulation resistance (20°C)	Min. 1,000			M Ω -km
Dielectric Strength (*1)	To withstand A.C. 250V for		To withstand A.C. 250V for 1 min.	-
Differential Characteristic Impedance(10MHz)	-		Nom.50 $\pm$ 5	Ω

*1: Applied between inner conductor and outer conductor.

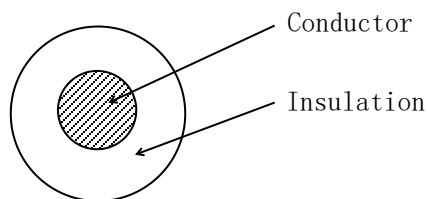


Fig.1 Cross section of wire

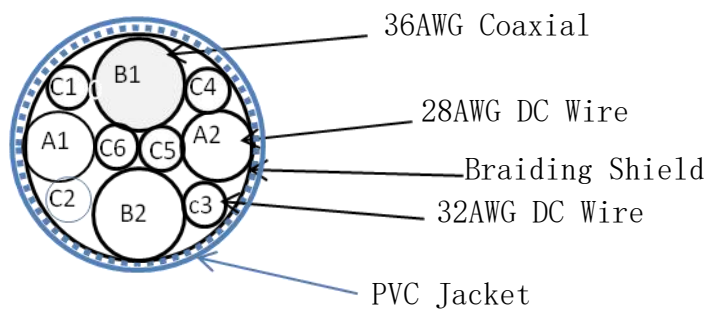


Fig.2 Cross section of cable

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

Sheet3 .Color of Core

Core No.	Color of insulation
A1	Red
A2	Black
B1	White
B2	Black
C1	Yellow
C2	Green
C3	Blue
C4	White
C5	Grey
C6	Purple