

SPECIFICATION

20C(4×36AWG+3P×36AWG+10×32AWG)-6.0

Prepared	Reviewed	Approved

1. Scope

Use the matching wire on the endoscope

2. Construction and material

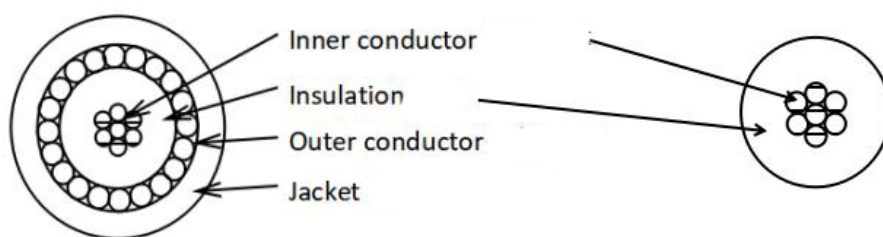
Item		Specified Value			Unit
Number of cores		4(A)	3P (B)	10(C)	No./mm
Inner Conductor	AWG Size	36AWG	36AWG	32AWG	-
	Material	Silver plated copper alloy	Silver plated copper alloy	Tinned copper alloy	-
	Stranding	7/0.05	7/0.05	7/0.08	-
	Diameter(Nom.)	0.15	0.15	0.24	Mm
Insulation	Material	FEP			-
	Color	See Fig.2			-
	Thickness(Nom.)	0.14	0.125	0.085	Mm
	Diameter(Nom.)	0.43	0.4	0.41	Mm
Outer Conductor	Type	Braiding			-
	Material	Tinned copper			-
	Thickness(Nom.)	0.05			Mm
Jacket	Material	PFA			-
	Color	See sheet3			-
	Thickness(Nom.)	0.1			Mm
	Diameter(Nom.)	0.73			Mm
Twisting	Diameter(Nom.)	1.76	0.8	0.82	
Binder tape	Material	AL-Mylar	Al-Mylar (AL inside)		
Cabling Diameter (Nom.)		3.6(See Fig.3)			Mm
Insulation	Material	Microporous PTFE			
	Color	Nature			
	Thickness(Nom.)	0.2			
	Diameter(Nom.)	4.0			
Binder tape	Material	AL-Mylar (AL outer)			-
	thickness (Nom.)	0.035			Mm
	Diameter(Nom.)	4.15			Mm
Drain wire	7/0.08	No./mm			
Braid shield	Material	Tinned copper wire			-
	Thickness(Nom.)	0.2			Mm
	Coverage(Nom.)	Min.90			%
	Diameter(Nom.)	4.55			Mm
Sheath	Material	TPU			-
	Color	(Gray)			-
	Thickness (Nom.)	0.7			Mm
	Diameter	MAX6.0			Mm

Sheet 2 Electrical Properties

Item	Specified Value			Unit
	36AWG	36AWG	32AWG	-
Conductor resistance (20°C)	Max. 1,400	Max. 1,400	Max. 600	Ω /km
Insulation resistance (20°C)	Min. 1,000	Min. 1,000	Min. 1000	M Ω -km
Dielectric Strength (*1)	To withstand A.C. 500V for 1 min.			-
Differential Characteristic Impedance(10MHz)	50 ± 5	100 ± 10	----	Ω

*1: Applied between inner conductor and outer conductor.

*2: Differential impedance



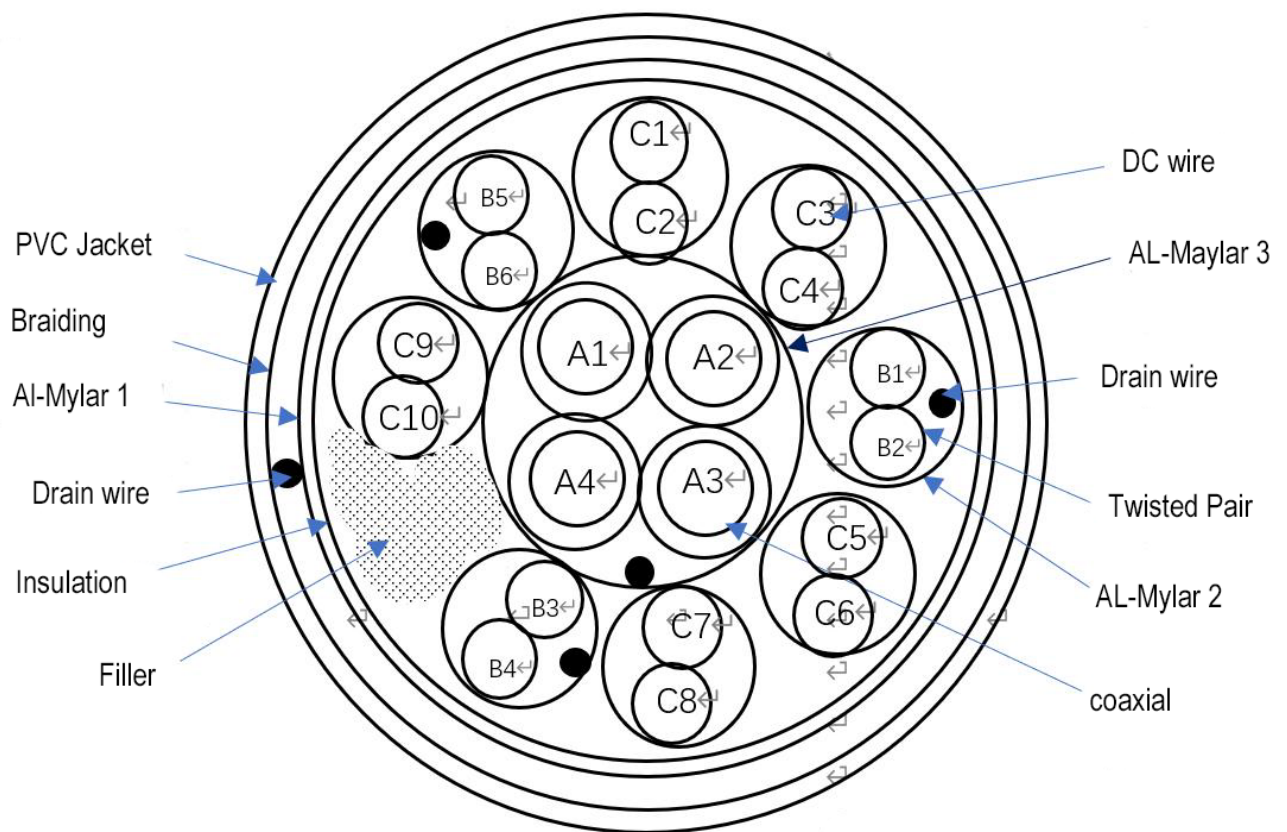


Fig.2 Cross section of cable

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

Sheet3 .Color of Core

Core No.	Color	Note
A1	white	Jacket
A2	Yellow	Jacket
A3	blue	Jacket
A4	Pink	Jacket
{ B1	Blue	Insulation
{ B2	Green	Insulation
{ B3	Brown	Insulation
{ B4	Red	Insulation
{ B5	Black	Insulation
{ B6	Natural	Insulation
{ C1	Gray	Insulation
{ C2	Violet	Insulation
{ C3	Orange	Insulation
{ C4	Pink	Insulation
{ C5	Green	Insulation
{ C6	RED	Insulation
{ C7	Yellow	Insulation
{ C8	White	Insulation
{ C9	Blue	Insulation
{ C10	Brown	Insulation

Note: { Pair Twisting)