



SYNERGY TELECOM PVT LTD

No.: SP05-51014

No.: SP01-51014

Date : JAN.05, 2025

SPECIFICATION

P/N: 44AWG×3Coaxial+40AWG×4 White PVC 3.3±0.3mm

Issue and revision record

Rev. No.	Issue date	Item	Prepared by	Reviewed by	Approved by
-	JAN.05,2025	Initial issue			

WZ-47, BASEMENT, BUDDHELLA VILAGE VIKAS PURI NEW DELHI - 110018

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1. Scope

Medical endoscopy cable

No.: SP01-51014

2. Construction and material

Item	Unit	Specified Value	
		44AWG Coaxial	40AWG Wire
Number of cores	-	3	4
Inner Conductor	Material	-	Silver plated copper alloy
	Stranding	No./mm	7/0.02
	Diameter(Nom.)	mm	0.06±0.005
Insulation	Material	-	PFA
	Thick.(Nom.)	mm	0.048
	Diameter	mm	0.158±0.01
	Color	-	See Fig.2
Outer Conductor	Material	-	Silver plated tin copper alloy
	Thick.(Nom.)	mm	0.025
	Diameter	mm	0.21±0.01
Drain Conductor	AWG Size	-	40
	Material	-	Silver plated tin copper alloy
	Stranding	-	7/0.025
	Diameter(Nom.)	mm	0.075±0.008
Cabling	Cabling	mm	0.55±0.02(See Fig.1)
Wrapping	Diameter	mm	0.57±0.02
Spiral shield	Material	-	Tinned annealed copper alloy
	Thickness	No./mm	0.03
	Coverage(Nom.)	-	90%
Inner Sheath	Material	-	PFA
	Thick.(Nom.)	-	0.065
	Color	-	Black
	Dia. (Nom.)	mm	0.78±0.02
Wrapping	Material	-	Copper foil
Inner Sheath	Material	-	PVC
	Thick.(Nom.)	-	1.2
	Color	-	White
	Dia. (Nom.)	mm	3.3±0.2

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3. Electrical Properties

Item	Unit	Specified Value	
		44AWG Coaxial	40AWG Wire
Rating temperature	°C	80	
Rating voltage	V	30	
Conductor Resistance (20°C)	Ω/km	Max.12500	Max.5000
Insulation Resistance (20°C)	MΩ-km	Min. 1000	
Dielectric strength Inner ~ Outer conductor	-	Withstand A.C. 250V/min.	
Dielectric strength GND ~ Earth @water	-	Withstand A.C. 500V/min.	
Characteristics impedance	-	Nom. 50 ± 5 ohm (AT 1ns @TDR)	

4. Sectional View

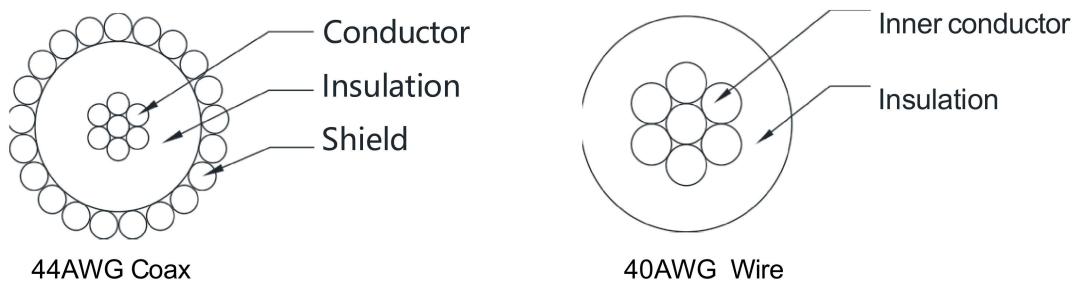
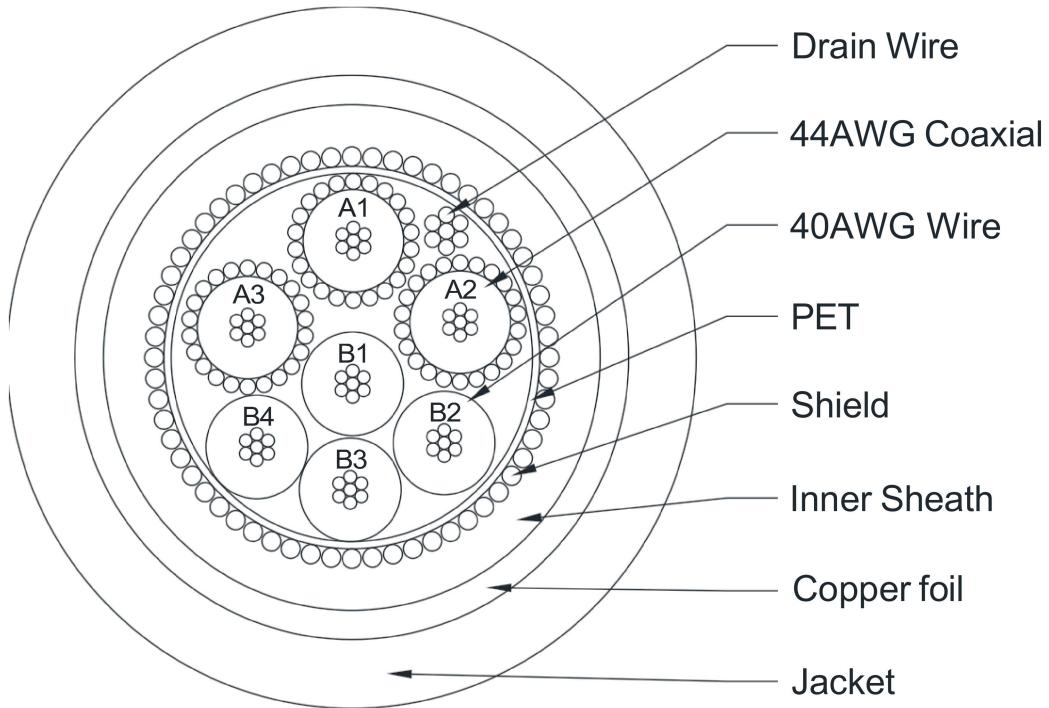


Fig.1 Cable section diagramFig.2 : Color list

Core No.	Color	Core No.	Color
A1	Green	B1	Red
A2	Red	B2	Red
A3	White	B3	Black
		B4	Black

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