

1. Scope

This specification covers the construction and the electrical properties of 44 Core Multi Cable with Braid. MRI Compatible

2. Construction and material

Item	Unit	Specified Value		
		30AWG Coaxial (A)	26AWG Wire(B)	
Number of cores	-	10	34	
Inner Conductor	Material	Silver plated Copper wire		
	Stranding	No./mm	7/0.105	19/0.10
	Diameter(Nom.)	mm	0.305	0.50
Insulation	Material	-	FEP	FEP
	Thick.(Nom.)	mm	0.29	0.175
	Diameter	mm	0.90±0.02	0.85±0.02
	Color	-	Nature	See Fig.1
Braid Shielding	Material	-	Silver plated Copper wire	-
	Strand Dia. (approx.)	mm	0.10	
	Dia.(approx.)	mm	1.30	
	Coverage	%	90%	
Sheath	Material	-	FEP	
	Thick.(Nom.)	mm	0.05	
	Diameter	mm	1.80±0.10	
	Color	-	See Fig.1	
Assembly Diameter(Nom.)1	mm	5.95(See Fig.1)		
Assembly Diameter(Nom.)2		9.55		
Tape1	Material	-	PTFE	
	Thick.(Nom.)	mm	0.05	
	Diameter	mm	9.65	
Braid Shielding	Material	-	Tinned copper wire	
	Dia.(approx.)	mm	0.12	
	Coverage	%	85%	
Tape2	Material	-	PTFE	
	Thick.(Nom.)	mm	0.05	
	Diameter	mm	10.3	
Sheath	Material	-	TPU or PVC	
	Thickness (Nom.)	mm	1.35	
	Diameter	mm	13.5+0/-0.30	
	Color	-	White or Grey	

3. Electrical Properties

Item	Unit	Specified Value	
		30AWG Coaxial	26AWG Wire
Rating temperature	°C	80	80
Rating voltage	V	30	30
Conductor Resistance (20°C)	Ω/km	Max.377	Max.140
Insulation Resistance* (20°C)	MΩ-km	Min. 1,524	Min. 1,524
Dielectric Strength	VAC/Min	500	100
Characteristic Impedance	Ω	50±3	

Attenuation	12MHz	DB/M		-
	63 MHz			
	123 MHz			
	135 MHz			
	300 MHz			
VSWR		-	<1.3	

4. Packing

- (1) Unit length(Min) : 100m(Min.10)
- (2) Package : Coiled into carton box

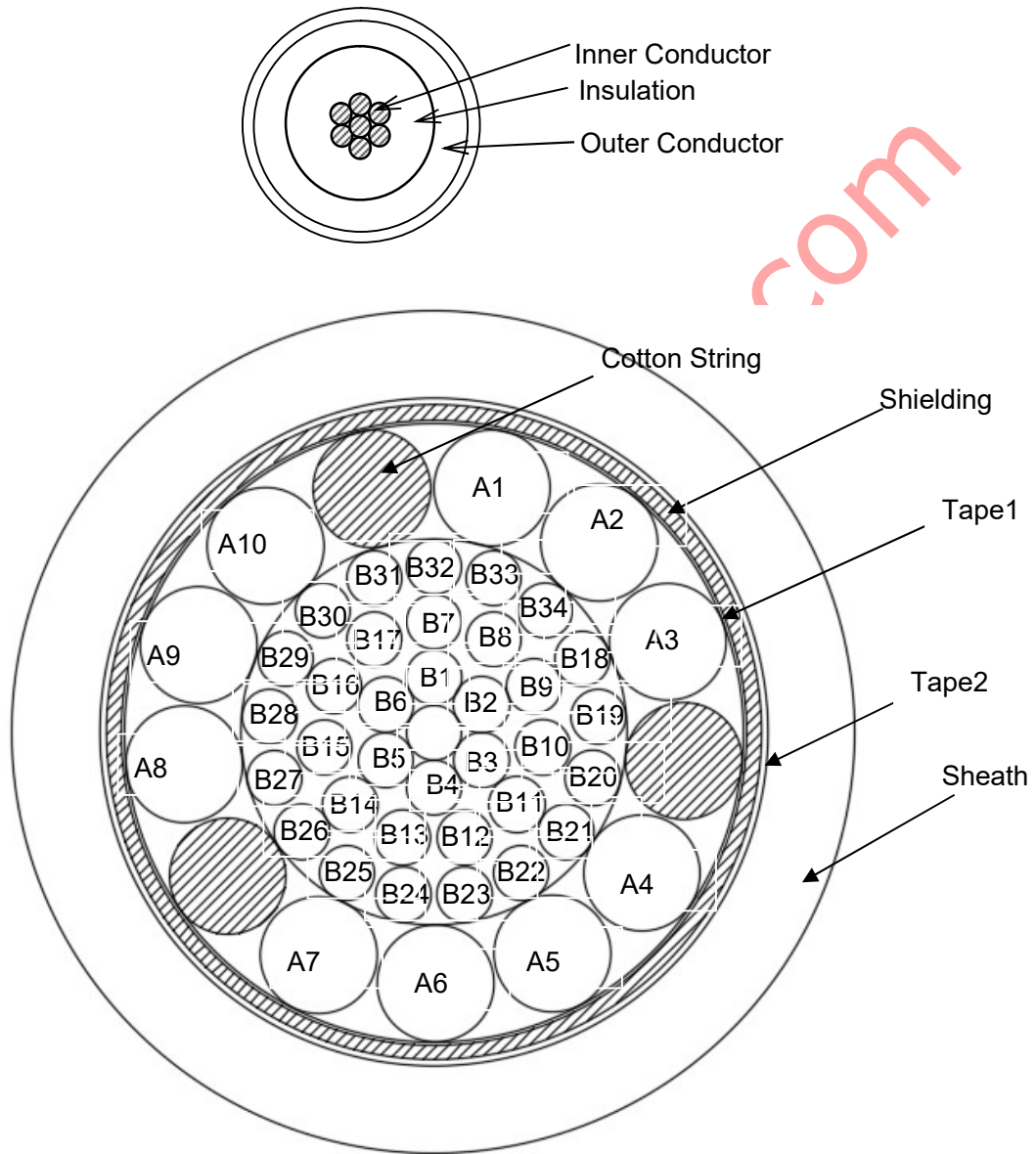


Fig.1 Cross section view of cable

NO	Color	NO	Color	NO		Color	NO		Color
A1	Blue	A9	Orange	B7	B18	Blue	B15	B26	Orange
A2	Brown	A10	Pink	B8	B19	Brown	B16	B27	Pink
A3	Green	B1	Blue	B9	B20	Green	B17	B28	Violet
A4	Yellow	B2	Brown	B10	B21	Yellow	B34	B29	Natural
A5	Black	B3	Green	B11	B22	Black		B30	Dark blue
A6	Red	B4	Yellow	B12	B23	Red		B31	Dark Red
A7	White	B5	Black	B13	B24	White		B32	Dark Violet
A8	Gray	B6	Red	B14	B25	Gray		B33	Dark Gray

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