

1. Scope

This specification covers the construction and the electrical properties of 32 Core Multi Cable with Braid. MRI Compatible

2. Construction and material

Item	Unit	Specified Value		
		32AWG Coaxial (A)	28AWG Wire(B)	
Number of cores	-	12	20	
Inner Conductor	Material	Silver plated Copper wire		
	Stranding	No./mm	1/0.21	7/0.127
	Diameter(Nom.)	mm	0.20	0.381
Insulation	Material	-	FEP	FEP
	Thick.(Nom.)	mm	0.20	0.15
	Diameter	mm	0.60±0.02	0.70±0.02
	Color	-	Nature	See Fig.1
Braid Shielding	Material	-	Silver plated Copper wire	-
	Strand Dia. (approx.)	mm	0.08	
	Dia.(approx.)	mm	0.92	
	Coverage	%	90%	
Sheath	Material	-	FEP	
	Thick.(Nom.)	mm	0.05	
	Diameter	mm	1.18±0.03	
	Color	-	See Fig.1	
Assembly Diameter(Nom.)1	mm	3.70(See Fig.1)		
Assembly Diameter(Nom.)2		6.10		
Tape1	Material	-	PTFE	
	Thick.(Nom.)	mm	0.05	
	Diameter	mm	6.20	
Braid Shielding	Material	-	Tinned copper wire	
	Dia.(approx.)	mm	0.12	
	Coverage	%	85%	
Tape2	Material	-	PTFE	
	Thick.(Nom.)	mm	0.05	
	Diameter	mm	6.88	
Sheath	Material	-	TPU	
	Thickness (Nom.)	mm	1.15	
	Diameter	mm	9.00±0.20	
	Color	-	Gray	

3. Electrical Properties

Item	Unit	Specified Value	
		32AWG Coaxial	28AWG Wire
Rating temperature	°C	80	80
Rating voltage	V	30	30
Conductor Resistance (20°C)	Ω/km	Max.560	Max.223
Insulation Resistance* (20°C)	MΩ-km	Min. 1,524	Min. 1,524
Dielectric Strength	VAC/Min	500	100

	12MHz		0.217	
Attenuation	63 MHz	DB/M	0.495	-
	123 MHz		0.691	
	135 MHz		0.725	
	300 MHz		1.088	
	VSWR		-	

4. Packing

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

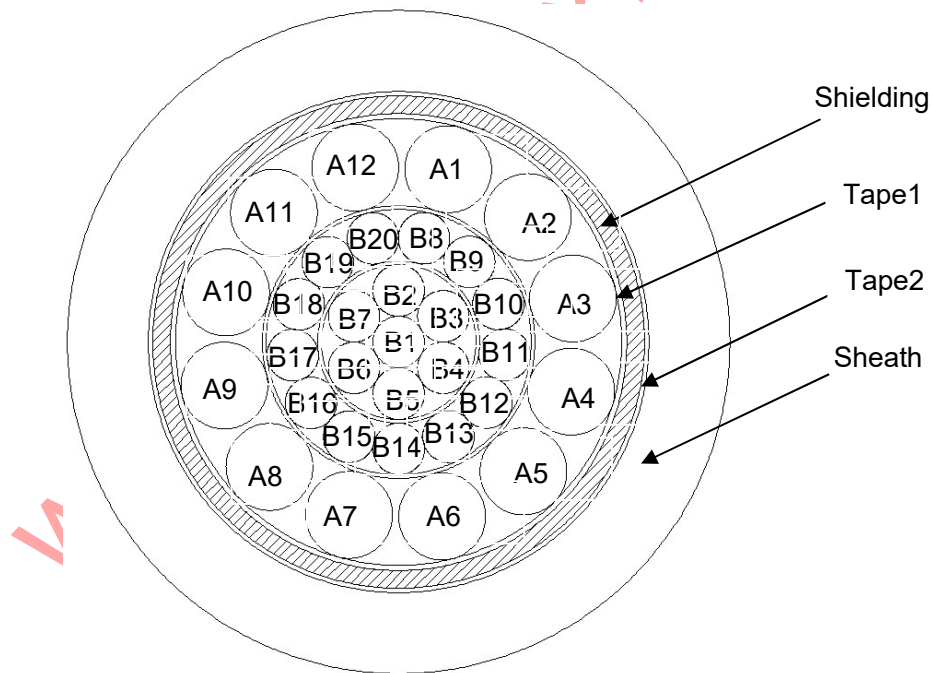
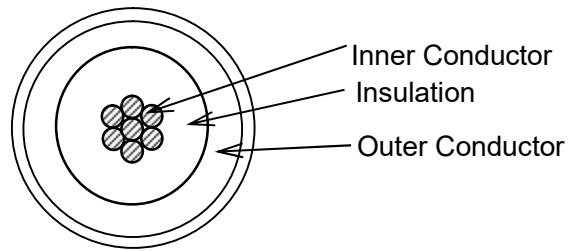


Fig.1 Cross section view of cable

NO	Color	NO	Color	NO	Color	NO	Color	NO	Color
A1	Black	A7	Blue	B1	Black	B7	Black	B17	Blue
A2	White	A8	Red	B2	White	B8	White	B18	Red
A3	Yellow	A9	Orange	B3	Yellow	B9	Yellow	B19	Orange
A4	Brown	A10	Violet	B4	Brown	B10	Brown	B20	Violet
A5	Green	A11	Pink	B5	Green	B11	Green	-	
A6	Gray	A12	Natural	B6	Gray	B12	Gray		

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