

1. Scope

This specification covers the construction and the electrical properties of 39 Core Multi Cable with Braid. MRI Compatible

2. Construction and material

Item	Unit	Specified Value			
		32AWG Coaxial (A)	26AWG Coaxial (B)	28AWG Wire(C)	
Number of cores	-	18	1	20	
Inner Conductor	Material	Silver plated Copper wire			
	Stranding	No./mm	1/0.21	7/0.175	7/0.127
	Diameter(Nom.)	mm	0.20	0.525	0.50
Insulation	Material	-	FEP	FEP	FEP
	Thick.(Nom.)	mm	0.20	0.49	0.15
	Diameter	mm	0.60±0.02	1.52±0.02	0.70±0.02
	Color	-	Nature	Nature	See Fig.1
Braid Shielding	Material	-	Silver plated Copper wire		-
	Strand Dia. (approx.)	mm	0.08	0.10	
	Dia.(approx.)	mm	0.92	1.95±0.02	
	Coverage	%	90%	85%	
Sheath	Material	-	FEP	FEP	
	Thick.(Nom.)	mm	0.05	0.25	
	Diameter	mm	1.18±0.03	2.50±0.10	
	Color	-	See Fig.1	Brown	
Assembly Diameter(Nom.) ²			7.77		
Tape1	Material	-	PTFE		
	Thick.(Nom.)	mm	0.05		
	Diameter	mm	7.87		
Braid Shielding	Material	-	Tinned copper wire		
	Dia.(approx.)	mm	0.12		
	Diameter	mm	8.35		
	Coverage	%	85%		
Tape2	Material	-	PTFE		
	Thick.(Nom.)	mm	0.05		
	Diameter	mm	8.45		
Sheath	Material	-	TPU or PVC		
	Thickness (Nom.)	mm	1.60		
	Diameter	mm	11.5±0.20		
	Color	-	White or Grey		

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

Attenuation	12MHz	DB/M	0.217	-
	63 MHz		0.495	
	123 MHz		0.691	
	135 MHz		0.725	
	300 MHz		1.088	
VSWR		-	<1.3	

4. Packing

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

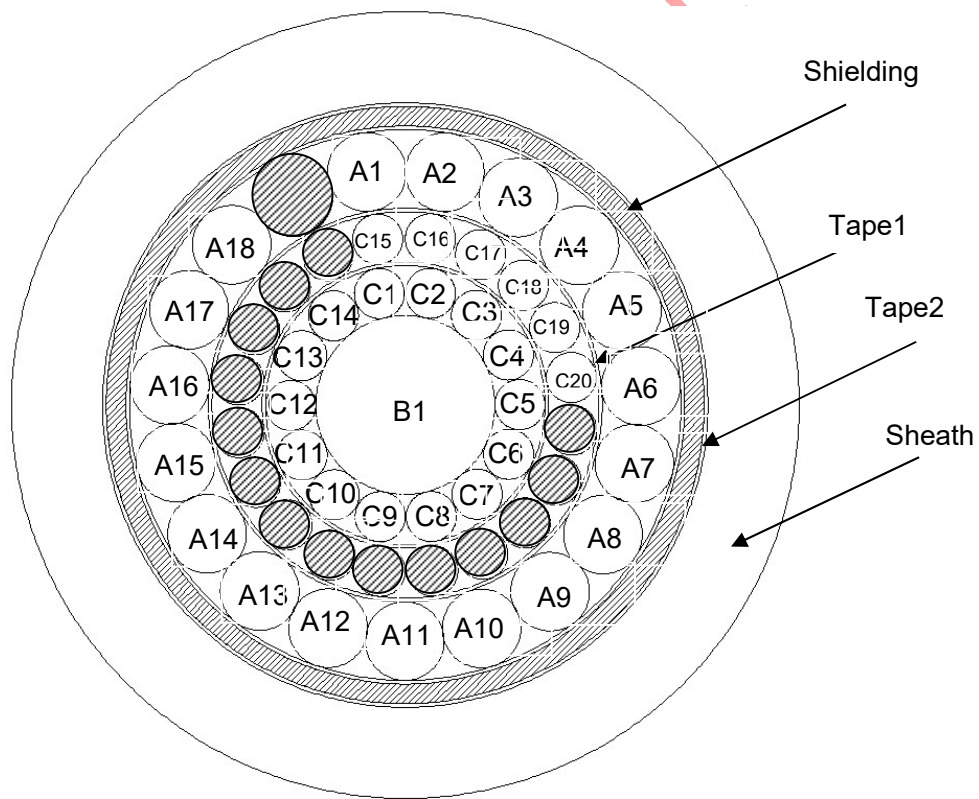
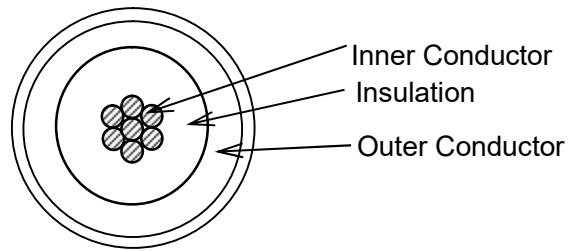


Fig.1 Cross section view of cable

NO	Color	NO	Color	NO	Color
A1	Black	A7	Blue	A13	Gray
A2	White	A8	Red	A14	Pink
A3	Yellow	A9	Orange	A15	Dark Blue
A4	Brown	A10	Violet	A16	Dark Yellow
A5	Green	A11	Natural	A17	Dark Red
A6	Grey	A12	Pink	A18	Dark Green
C1 C15	Black	C7	Blue	C13	Gray
C2 C16	White	C8	Red	C14	Pink
C3 C17	Yellow	C9	Orange		
C4 C18	Brown	C10	Violet		
C5 C19	Green	C11	Natural		
C6 C20	Grey	C12	Pink		

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