

1. Scope

This specification covers the construction and the electrical properties of 28 Core Multi Cable with Braid. MRI compatible

2. Construction and material

Item		Unit	Specified Value	
			32AWG Coaxial (A)	28AWG Wire(B)
Number of cores		-	8	20
Inner Conductor	Material	-	Silver plated Copper wire	
	Stranding	No./mm	1/0.21	7/0.127
	Diameter(Nom.)	mm	0.20	0.50
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	3.83(See Fig.1)	
Assembly Diameter(Nom.)2			5.23	
Tape1	Material	-	PTFE	
	Thick.(Nom.)	mm	0.05	
	Diameter	mm	5.43	
Braid Shielding	Material	-	Tinned copper wire	
	Dia.(approx.)	mm	0.12	
	Coverage	%	85%	
Tape2	Material	-	PTFE	
	Thick.(Nom.)	mm	0.05	
	Diameter	mm	6.10	
Sheath	Material	-	TPU or PVC	
	Thickness (Nom.)	mm	1.15	
	Diameter	mm	8.40±0.20	
	Color	-	Gray or White	

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

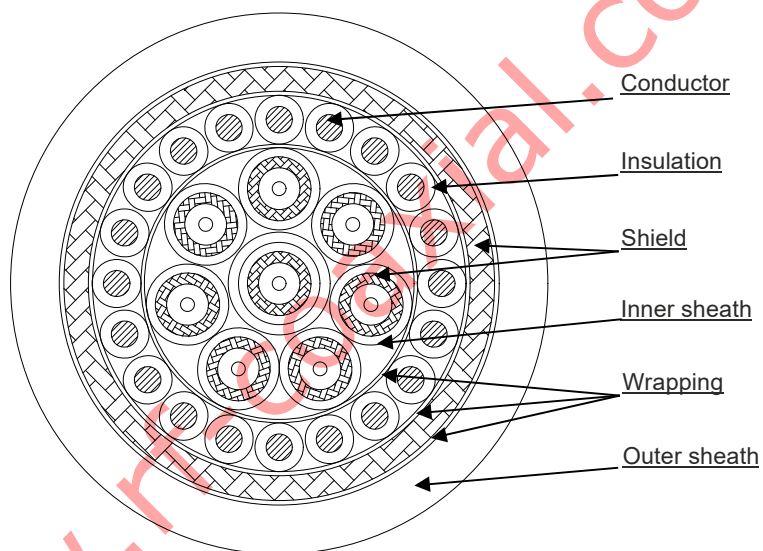
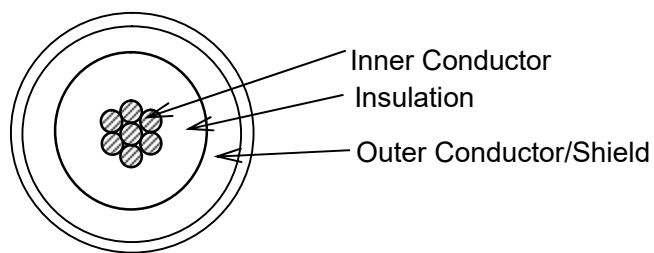


Fig.1 Cross section view of cable

NO	Color	NO	Color	NO	Color	NO	Color	NO	Color
A1	Blue	A7	Orange	B5	Gray	B11	Natural	B17	Yellow/Black
A2	Brown	A8	White	B6	Pink	B12	Orange	B18	Green/Black
A3	Green	B1	White	B7	Blue	B13	Natural/Black	B19	Blue/Black
A4	Yellow	B2	Brown	B8	Red	B14	Brown/Black	B20	Gray/Black
A5	Black	B3	Green	B9	Black	B15	Red/Black	-	
A6	Red	B4	Yellow	B10	Violet	B16	Orange/Black		