

1. Scope

This specification covers the construction and the electrical properties of 42 Core Multi Cable with Braid shield, MRi compatible

2. Construction and material

Item		Unit	Specified Value	
			36AWG Coaxial (A)	28AWG Wire(B)
Number of cores		-	8	12
Inner Conductor	Material	-	Silver plated Copper wire	
	Stranding	No./mm	7/0.05	7/0.127
	Diameter(Nom.)	mm	0.15	0.381
Insulation	Material	-	FEP	FEP
	Thick.(Nom.)	mm	0.14	0.07
	Diameter	mm	0.43 ± 0.02	0.52 ± 0.02
	Color	-	White	See Fig.1
Braid Shielding	Material	-	Tinned copper wire	
	Strand Dia. (approx.)	mm	0.03	-
	Dia.(approx.)	mm	0.49	-
	Coverage	%	90%	-
Sheath	Material	-	FEP	-
	Thick.(Nom.)	mm	0.05	-
	Diameter	mm	0.60 ± 0.03	-
	Color	-	Natrual	-
Tape	Material	-	PET	-
	Thick.(Nom.)	mm	0.008	-
	Diameter	mm	0.62 ± 0.03	-
Assembly Diameter(Nom.) ¹		mm	4.64(See Fig.1)	
Tape ¹	Material	-	PTFE	
	Thick.(Nom.)	mm	0.05	
	Diameter	mm	4.74	
Braid Shielding	Material	-	Tinned copper wire	
	Dia.(approx.)	mm	0.08	
	Coverage	%	85%	
	Diameter	mm	5.06	
Sheath	Material	-	TPU orPVC	
	Thick.(Nom.)	mm	1.50	
	Diameter	-	8.00 ± 0.20	

3. Electrical Properties

Item	Unit	Specified Value	
		36AWG Coaxial	28AWG Wire
Rating temperature	°C	80	80
Rating voltage	V	30	30
Conductor Resistance (20°C)	Ω/km	Max.1,500	Max.223
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		-		

4. Packing

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

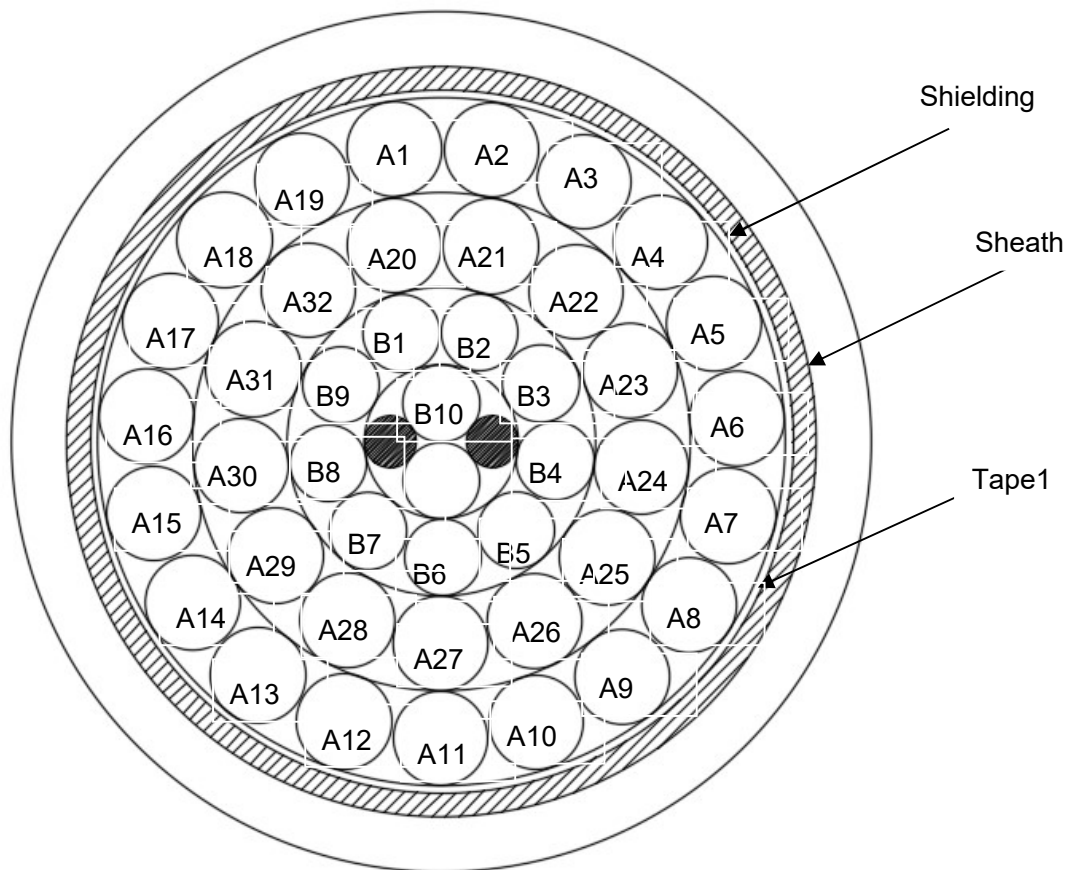
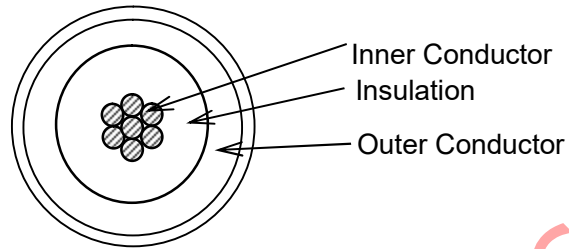


Fig.1 Cross section view of cable

NO	Color	NO	Color	NO	Color
A1	Black	A20	Black	B1	Black
A2	White	A21	White	B2	White
A3	Yellow	A22	Yellow	B3	Yellow
A4	Brown	A23	Brown	B4	Brown
A5	Green	A24	Green	B5	Green
A6	Gray	A25	Gray	B6	Gray
A7	Blue	A26	Blue	B7	Blue
A8	Red	A27	Red	B8	Red
A9	Orange	A28	Orange	B9	Orange
A10	Violet	A29	Violet	B10	Violet
A11	Sky Blue	A30	Sky Blue		
A12	Pink	A31	Pink		
A13	natural	A32	natural		
A14	Stripe Black				
A15	Stripe White				
A16	StripeYellow				
A17	Stripe Brown				
A18	StripeGreen				
A19	StripeGray				

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