

1. Scope

This specification covers the construction and the electrical properties of 16 Core Multi Cable with Braid. MRi compatible

2. Construction and material

Item	Unit	Specified Value		
		30AWG Coaxial (A)	26AWG Wire(B)	
Number of cores	-	8	8	
Inner Conductor	Material	Silver plated Copper wire		
	Stranding	No./mm	7/0.105	7/0.16
	Diameter(Nom.)	mm	0.305	0.48
Insulation	Material	-	FEP	FEP
	Thick.(Nom.)	mm	0.29	0.185
	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	2.90(See Fig.1)		
Assembly Diameter(Nom.)2		6.60		
Tape1	Material	-	PTFE	
	Thick.(Nom.)	mm	0.05	
	Diameter	mm	6.70	
Braid Shielding	Material	-	TA 0.12	
	Dia.(approx.)	mm	7.20	
	Coverage	%	85%	
Tape2	Material	-	PTFE	
	Thick.(Nom.)	mm	0.05	
	Diameter	mm	7.40	
Sheath	Material	-	TPU	
	Thickness (Nom.)	mm	1.00	
	Diameter	mm	9.50±0.30	
	Color	-	White/Gray	

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)	$M\Omega\text{-km}$	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

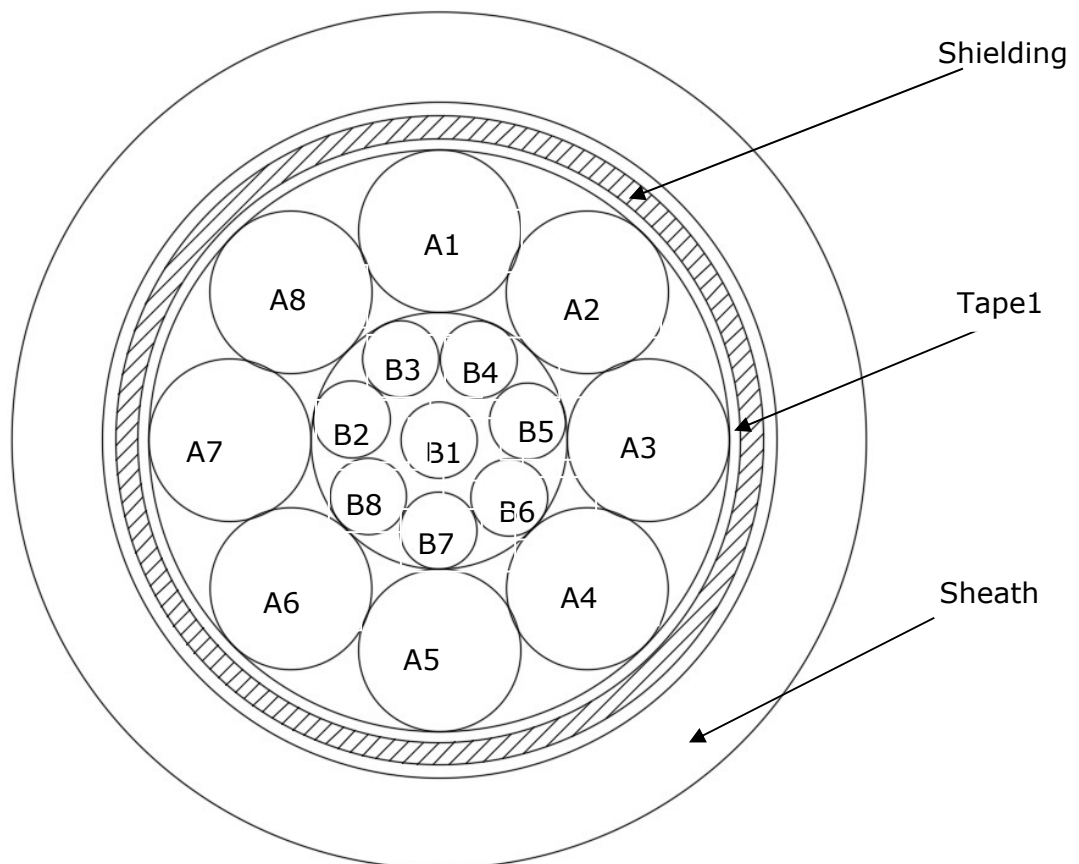
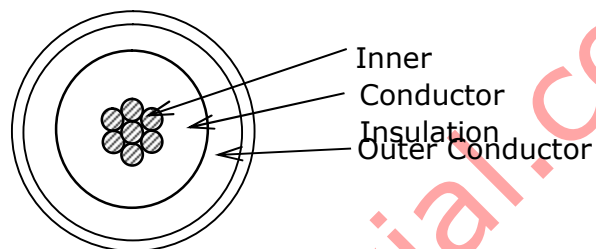


Fig.1 Cross section view of cable

NO	Color	NO	Color
A1	Blue	B1	Blue
A2	Brown	B2	Brown
A3	Green	B3	Green
A4	Yellow	B4	Yellow
A5	Black	B5	Black
A6	Red	B6	Red
A7	White	B7	White
A8	Gray	B8	Gray

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