

1. Scope

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

2. Construction and material

Item		Unit	Specified Value	
			30AWG RG178 Coaxial (A)	26AWG Wire(B)
Number of cores		-	16	16
Inner Conductor	Material	-	Silver plated Copper wire	
	Stranding	No./mm	7/0.105	19/0.10
	Diameter(Nom.)	mm	0.305	0.50
Insulation	Material	-	FEP	FEP
	Thick.(Nom.)	mm	0.29	0.20
	Diameter	mm	0.90±0.02	0.90±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	5.67(See Fig.1)	
Assembly Diameter(Nom.)2			9.40	
Tape1	Material	-	PTFE	
	Thick.(Nom.)	mm	0.05	
	Diameter	mm	9.60	
Braid Shielding	Material	-	Tinned copper wire	
	Dia.(approx.)	mm	10.08	
	Coverage	%	85%	
Tape2	Material	-	PTFE	
	Thick.(Nom.)	mm	0.05	
	Diameter	mm	10.28	
Sheath	Material	-	TPU	
	Thickness (Nom.)	mm	1.00	
	Diameter	mm	12.20±0.30	
	Color	-	White(TBD)	

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)	MΩ-km	Min. 1,524	Min. 1,524
Dielectric Strength	VAC/Min	500	100

Characteristic Impedance		Ω	50 ± 2	
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

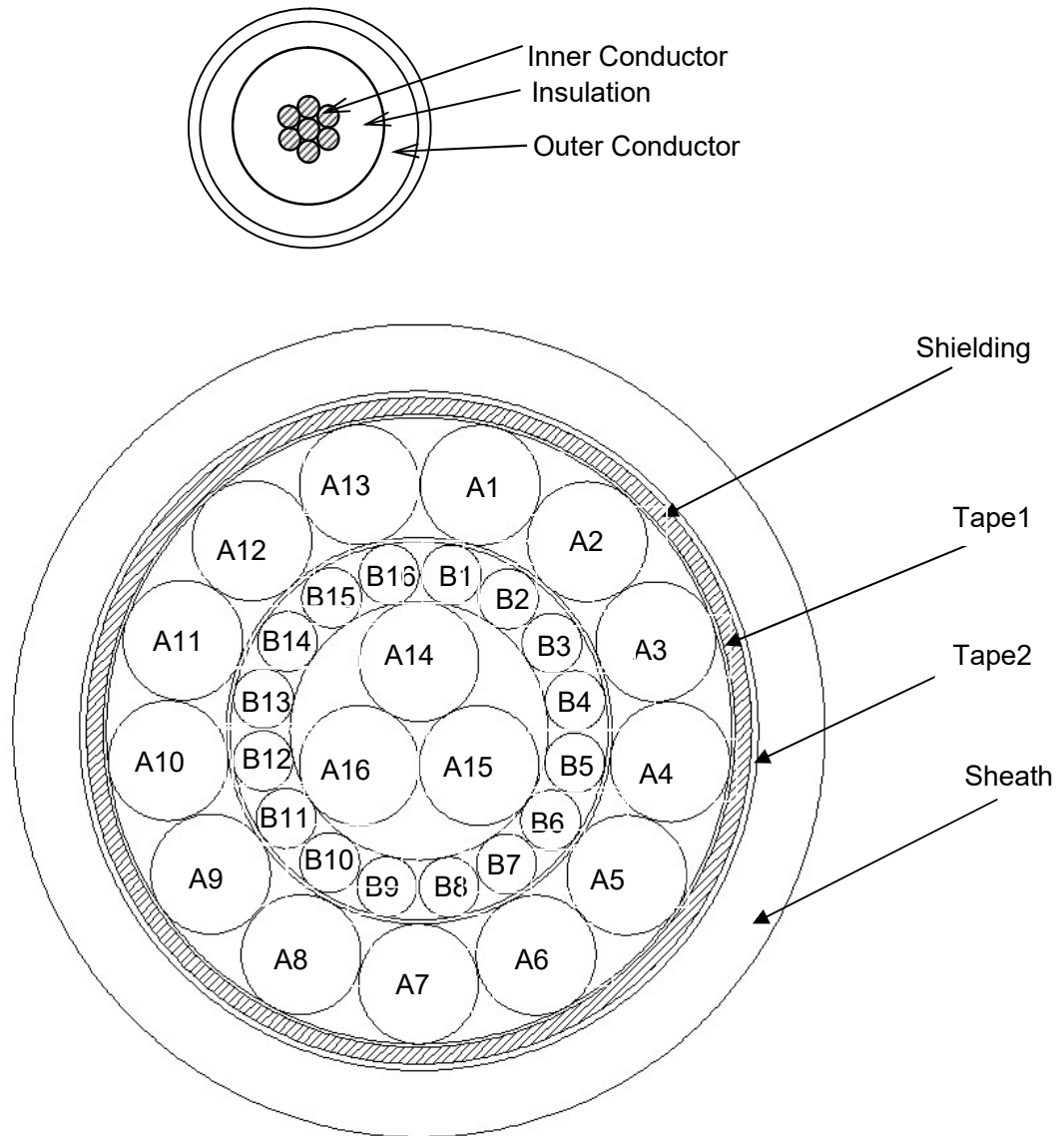


Fig.1 Cross section view of cable

NO	Color	NO	Color	NO		Color
A1	Blue	A9	Orange	B1	B9	Orange
A2	Brown	A10	Pink	B2	B10	Pink
A3	Green	A11	Violet	B3	B11	Violet
A4	Yellow	A12	Natural	B4	B12	Natural
A5	Black	A13	Dark blue	B5	B13	Dark blue
A6	Red	A14	Dark Red	B6	B14	Dark Red
A7	White	A15	Dark Violet	B7	B15	Dark Violet
A8	Gray	A16	Dark Gray	B8	B16	Dark Gray