

1. Scope

This specification covers the construction and the electrical properties of 18 Core Multi Cable with Braid Shield. USB 3.2 GEN2 Passive

2. Construction and material

Item		Unit	Specified Value				
			30AWG Coaxial	30AWG Wire	30AWG Wire	30AWG Wire	28AWG Wire
Number of cores		-	8C (A)	1P(B)	3C(C)	3C(D)	2(E)
Inner Conductor	Material	-	Silver plated Copper wire	Tinned copper			
	Stranding	No./mm	7/0.105	7/0.10	7/0.100	7/0.100	19/0.08
	Diameter(Nom.)	mm	0.315	0.30	0.300	0.300	0.40
Insulation	Material	-	FEP	FEP	FEP	FEP	FEP
	Thick.(Nom.)	mm	0.210	0.160	0.10	0.10	0.10
	Diameter	mm	0.79 (±0.03)	0.68 (±0.05)	0.500 (±0.02)	0.500 (±0.02)	0.60 (±0.05)
	Color	-	Nature	White, Green	See Fig.3	See Fig.3	Red, Red
Outer conductor	Material	-	Tinned copper wire				
	Thicknes (Nom)	mm	0.05				
	Dia.(approx.)	mm	0.890				
Shield Tape	Material	-	CUJ-PET				
	Thick.(Nom.)	mm	0.012				
	Diameter	mm	0.907				
Assembly Diameter 1(Nom.)				1.66			
Sheath Tape	Material	-	PET-A	AL-PET	AL-PET		
	Thick.(Nom.)	mm	0.018	0.02	0.02		
	Diameter	mm	0.945	1.70	0.54		
	Color	-	See Fig.3	Blue	Blue		
Assembly Diameter 2(Nom.)			3.82				
Tape	Material	-	Paper				
	Thick.(Nom.)	mm	0.05				
	Diameter	mm	3.92				
Shield	Material	mm	Tinned copper wire				
	Strand	mm	0.060				
	Coverage (Min)	mm	90				
	Dia.(approx.)	-	4.16				
Sheath	Material	-	PVC				
	Thickness (Nom.)	mm	0.40				
	Color	-	Black				
	Dia.(approx.)	mm	5.0±0.20				

3. Electrical Properties

Items	Unit	A Core AWG30*8C	B Core AWG30*2C	C Core AWG30*3C	D Core AWG30*3C	E Core AWG28*2
Condu Res. (@20°C)	Ω/km	MAX.377	MAX.377	MAX.377	MAX.377	MAX.223
Insul. Res. (@20°C)	MΩ·km	MIN.1000	MIN.1000	MIN.1000	MIN.1000	MIN.1000
Hipot Test	V(AC)/min	500	500	500	500	500
Impedence (@1ns)	Ω	90±(2C)	90±15(2C)	--	--	

SKEW※		ps/m	Max.10	Max.50	--	--	
Attenuation (GHz)	@2.5GHz	dB/m	Max.3.1	--	--	--	
	@5.0GHz		Max.4.8				
	@10GHz		Max.7.1				

※SKEW:Pairwise differential mode testing.

4. Packing

- (1) Unit length(Min) : 200m(Min.50)
- (2) Package : Coiled into carton box

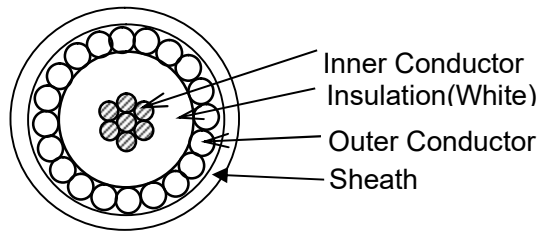


Fig.1 Cross section view of cable (30AWG Wire)

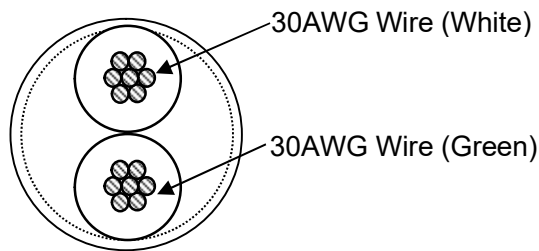
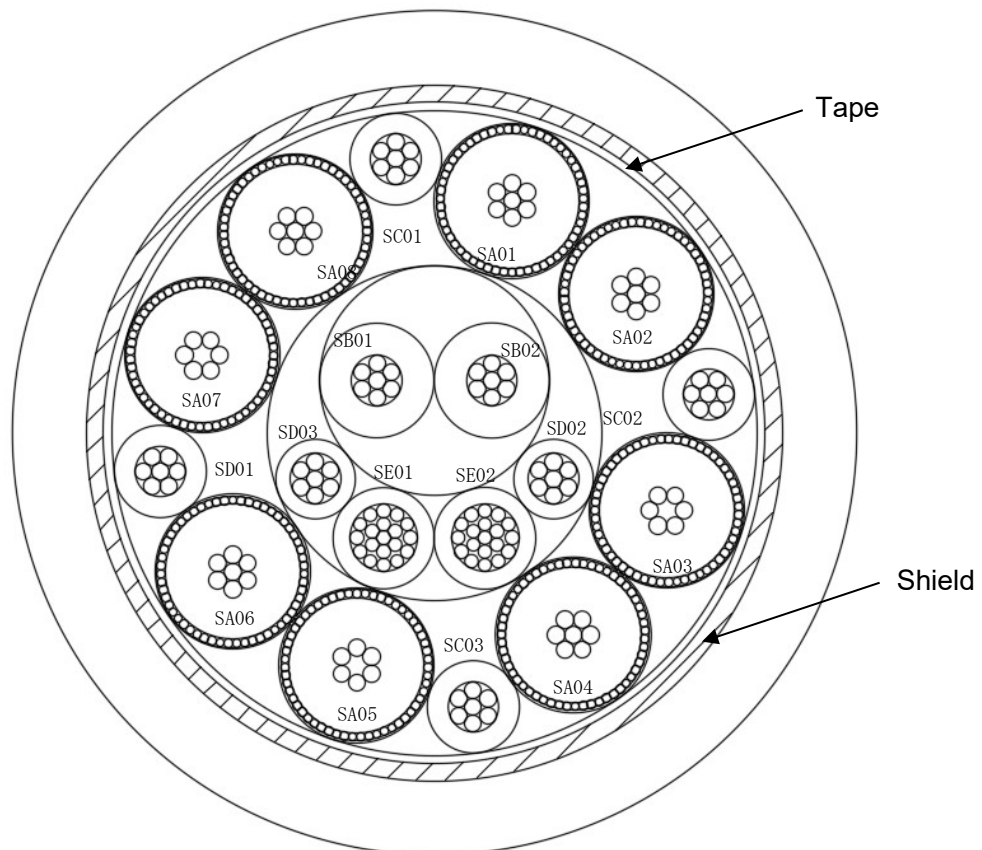


Fig.2 Cross section view of cable (1 Pair×30AWG)



Core	Color	Core	Color
SA01	Black	SB02	Green
SA02	White	SC01	Red
SA03	Yellow	SC02	Black
SA04	Brown	SC03	Yellow
SA05	Green	SD01	Blue
SA06	Gray	SD02	Brown
SA07	Blue	SD03	Green
SA08	Red	SE01	Red
SB01	White	SE01	Red

Fig.3 Cross section view of cable