

## 1. Scope

This specification covers the construction and the electrical properties of 9Core Multi Cable with Braid Shield. USB 3.0 3 Meter version

## 2. Construction and material

Item		Unit	Specified Value		
			30AWG Coaxial	30AWG Wire	28AWG Wire
Number of cores		-	4C (A)	2C (B)	3 (C)
Inner Conductor	Material	-	Silver plated Copper wire	Tinned copper	Tinned copper
	Stranding	No./mm	7/0.102	19/0.06	42/0.05+130D Kevlar
	Diameter(Nom.)	mm	0.306	0.300	0.36
Insulation	Material	-	FEP	FEP	FEP
	Thick.(Nom.)	mm	0.242	0.065	0.06
	Diameter	mm	0.79 (±0.02)	0.43 (±0.03)	0.56 (±0.05)
	Color	-	Natural	See Fig.3	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		
Sheath Tape	Material	-	PET-A		
	Thick.(Nom.)	mm	0.018		
	Diameter	mm	0.945		
	Color	-	See Fig.2		
Assembly Diameter (Nom.)			2.50		
Tape	Material	-	Carbon fiber tape		
	Thick.(Nom.)	mm	0.05		
	Diameter	mm	2.60		
Shield	Material	mm	Tinned copper wire		
	Strand	mm	16/16/0.05		
	Coverage (Min)	%	88		
	Dia.(approx.)	-	2.8		
Sheath	Material	-	PVC Cool Grey		
	Thickness (Nom.)	mm	0.40		
	Dia.(approx.)	mm	3.60±0.2		

## 3. Electrical Properties

Item	Unit	A Core AWG30*8C	B Core AWG32*1C	C Core AWG28*3C
Conductor(@20°C)	Ω/km	MAX.377	MAX.597	MAX.259
Insulation(@20°C)	MΩ·km	MIN.1000	MIN.1000	MIN.1000
Hipot	V(AC)/min	500	500	500
Char. imped. (@1ns)	Ω	90±(2C)		
SKEW/时间差※	ps/m	Max.10		
Attenuation (GHz)	@2.5GHz	Max.3.1		
	@5.0GHz	Max.4.8		
	@10GHz	Max.7.1		

#### 4. Packing

- (1) Unit length(Min) : 200m(Min.10)
- (2) Package : Coiled into carton box

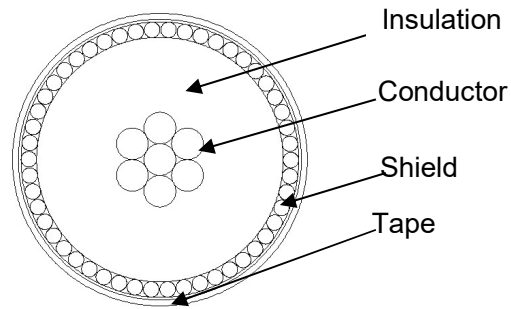
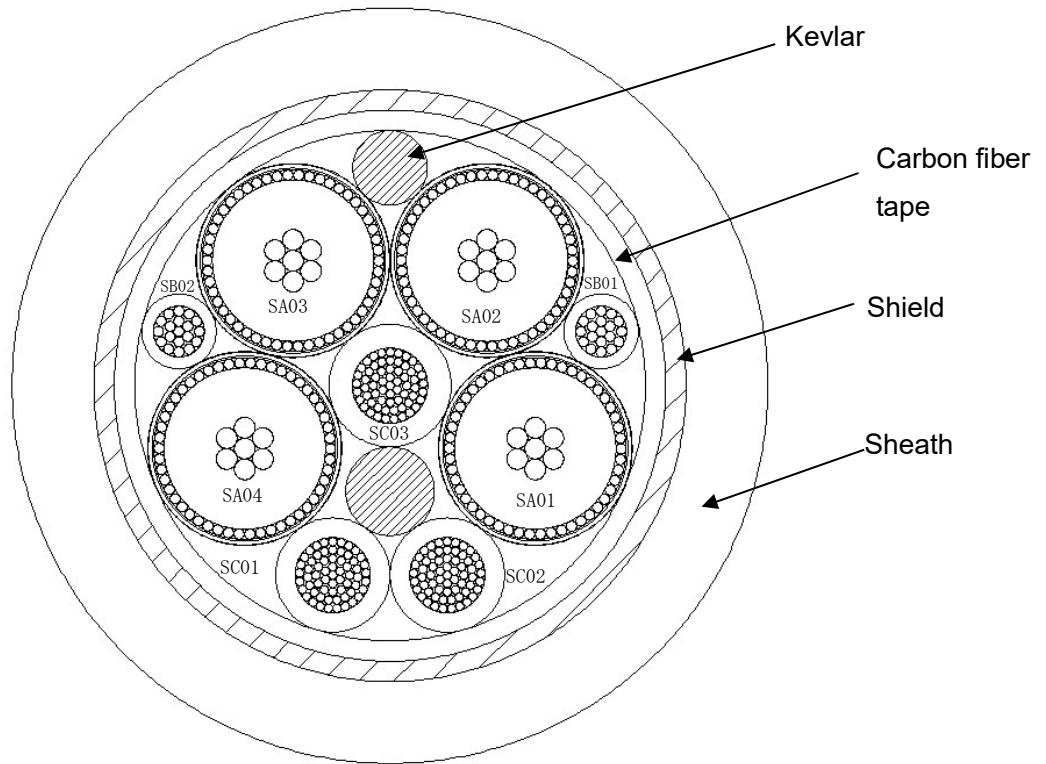


Fig.1 Cross section view of cable (30AWG Coaxial)



Item	Color	Item	Color
SA01	Black	SC01	Red
SA02	White	SC02	Red
SA03	Yellow	SC03	Red
SA04	Brown	SB01	Gray
		SB02	Yellow

Fig.2 Cross section view of cable