



## Specifications



Models	C78C (Stand Cable)	C78C-Z (Fire-retardant Cable)
Inner Conductor	Material: Copper Tube / Diameter: 9.0±0.1 (mm)	
Insulation	Material: Foamed PE / Diameter: 22.4±0.3 (mm)	
Outer Conductor	Material: Annular Corrugated Copper Tube / Diameter: 24.9±0.3 (mm)	
Jackiet	Material: LLDPE or Fire-retardant PE / Diameter: 27.5±0.3 (mm)	

### MECHANICAL SPECIFICATIONS

Bending Radius	120mm/Single Bend 250mm/Repeated Bend	
Tensile Strength	1400N	
Weight	450kg/km   992lb/km	
Operating Temperature	-55°C to +85°C   -67°F to +185°F	-30°C to +80°C   -22°F to +176°F
Storage Temperature	-70°C to +85°C   -94°F to +185°F	-30°C to +80°C   -22°F to +176°F

### ELECTRICAL SPECIFICATIONS

Inner Conductor DC Resistance	2.21Ω/km	
Outer Conductor DC Resistance	1.68Ω/km	
Impedance	50±1.5Ω	
Capacitance	77pF/m	
Velocity	87%	
Dielectric Strength	10.0kv	
Insulation Resistance	>1×10 <sup>4</sup> MΩ/km	
Peak Power Rating	90KV	
Peak Voltage	3200V	
Cut-off Frequency	5.2GHz	
VSWR	≤1.15 @ 30MHz-2700MHz ≤1.20 @ 3300MHz-4200MHz ≤1.20 @ 4400MHz-6000MHz	

### ATTENUATION

Frequency (MHz)	Attenuation (dB/100m) @ 20°C	Average Power (Kv)
200	1.69	6.27
450	2.65	3.73
800	3.64	2.49
900	3.86	2.34
1800	5.76	1.73
2000	6.12	1.63
2200	6.46	1.40
2500	6.97	1.33
2700	7.28	1.25
3000	7.76	1.16
3500	8.35	1.05
4000	9.09	0.99
5000	10.46	0.94
6000	12.76	0.88