

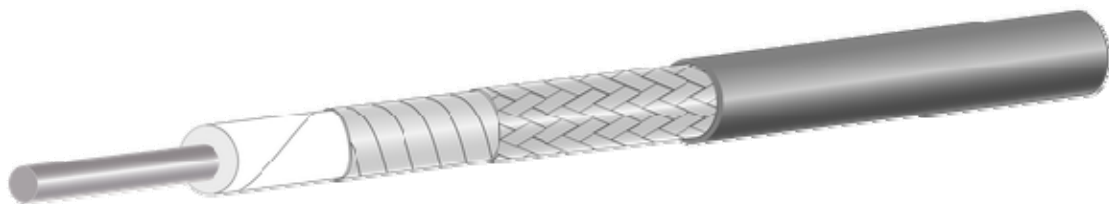
## ➤ **Ultra Low Loss Microwave Coaxial Cable**

### ● **Description:**

0 ~ 40GHz, ultra-low loss flexible phase-stable cable, silver-plated copper foil with spiral-wound inner shield.

### ● **Applications:**

Military vehicles, missiles, electronic warfare, radar, ship systems, airborne platforms, satellites, microwave medical treatment, test and measurement, etc.

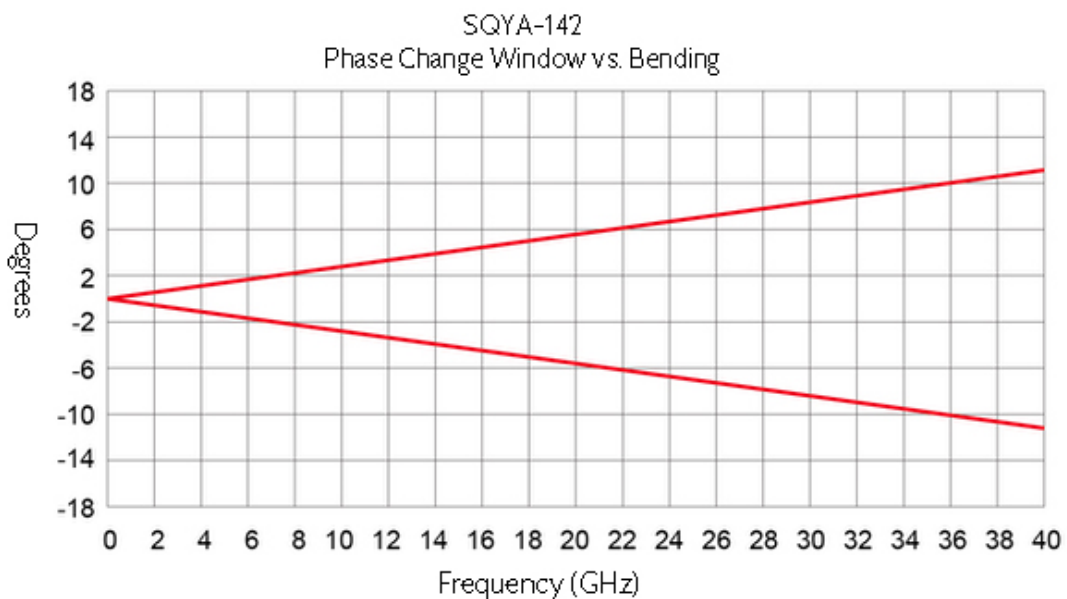


### ● **Specifications**

General Specifications	
Model	SQYA-142
Inner conductor material	Silverplated Copper Wire
Internal conductor structure	1/0.93mm
Inner conductor diameter	0.93 ± 0.02mm
Insulation materials	LD-PTFE
Insulation outside diameter	2.50 ± 0.05mm
Outer conductor materials	Silverplated Copper Strip
Outer diameter	2.66 ± 0.05mm
Outer conductor materials	Silverplated Copper Wire
Outer diameter	3.10 ± 0.05mm
Sheath material	FEP
Sheath diameter	3.60 ± 0.10mm
Electrical Specifications	
Impedanc ( Ω )	50 ± 2
Capacitance ( PF/m )	80
Velocity ( % )	83
Max Power ( KW )	2.5
Max.Operating Voltage ( V )	1200
Max.Operating Frequency (GHz)	40
Phase Change VS Bending ( ° /GHz)	± 0.4
Phase Change VS Temperature	≤ 750

(PPM@-40~+100°C)	
Cable Attenuation	
Frequency	Attenuation@20°C (dB/m)
0.5GHz	0.26
1.0GHz	0.36
3.0GHz	0.61
4.0GHz	0.70
6.0GHz	0.86
8.0GHz	0.99
10.0GHz	1.10
12.0GHz	1.24
15.0GHz	1.36
18.0GHz	1.58
26.5GHz	2.09
40.0GHz	2.64
Mechanical Specifications	
Minimum bending radius/Single	18mm
Min.bendin Radius/Repeated	36mm
Environmental performance	
Operating Temperature	-65~+165°C
RoHS Compliant	Yes
Replacement of similar products	
SQYA-142	CXN3507

● **Phase Change versus Bending**



● **Phase Stability versus Temperature**

