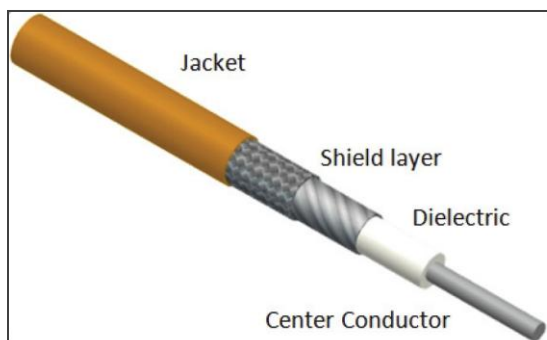


## Cable Structure & Material



- Center conductor : silver plated copper
- Dielectric core : low density PTFE (extruded)
- Inner shield: silver plated copper tape
- Outer shield : silver plated copper braid
- Jacket : FEP

## Specifications

### Physical & Environmental Specification

Frequency range	DC to 40 GHz
Center Conductor [mm]	19 / 0.2
Dielectric	2.79 ± 0.10mm
Inner shield (1 <sup>st</sup> Outer shield)	2.94 ± 0.10mm
Outer shield (2 <sup>nd</sup> Outer shield)	3.40 ± 0.20mm
Out diameter [mm]	4.15 ± 0.25mm
Minimum bend radius (Min.)	19.05
Weight [g/m]	42
Temperature range	-55 ~ 135 °C

### Electrical Specification

Impedance	50 Ω
Velocity of propagation	77% nom.
Dielectric constant	1.7
RF leakage	-90 dB
Time delay [ns/m]	4.35
Capacitance [pF/m]	86
Phase stability vs. flexure [ @18GHz max.]	4 °
IL stability vs. flexure [dB @minimum BR]	±0.3
Phase stability vs. temp. [deg/GHz/m](-40~80 °C)	< 2 °
Cable tensile strength [Kgf]	15

### Attenuation [dB/m]

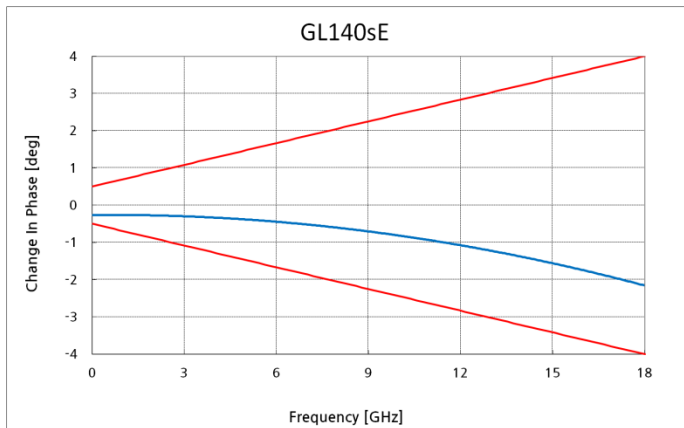
1 GHz	0.33
3 GHz	0.58
6 GHz	0.99
10 GHz	1.12
12 GHz	1.29
18 GHz	1.62
26.5 GHz	1.98
40GHz	2.52

### Power Handling [W] @ + 25 °C (Sea level)

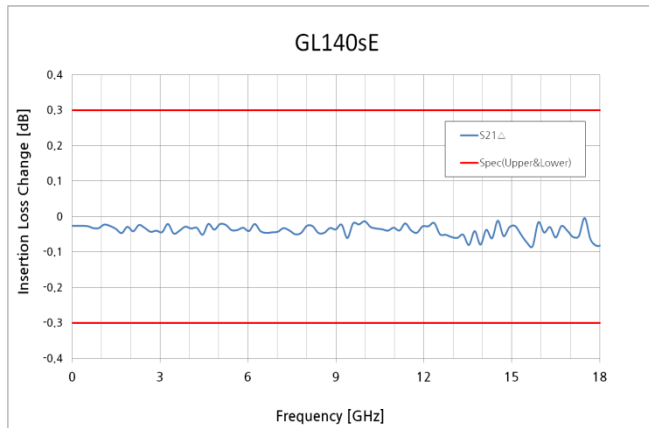
1 GHz	620
2 GHz	440
6 GHz	254
12 GHz	180
18 GHz	147
40GHz	99

Cable Insertion & Phase Stability with Flexure

Phase Change

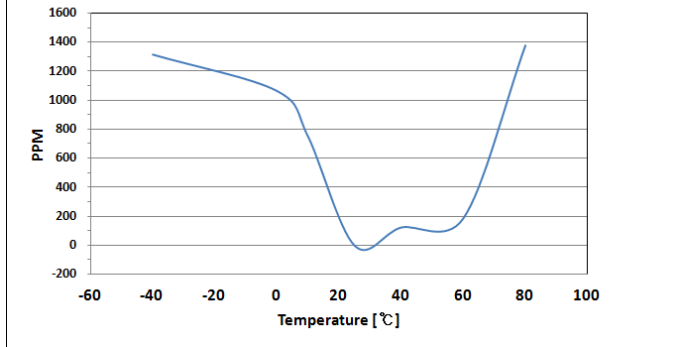


Insertion Loss Change

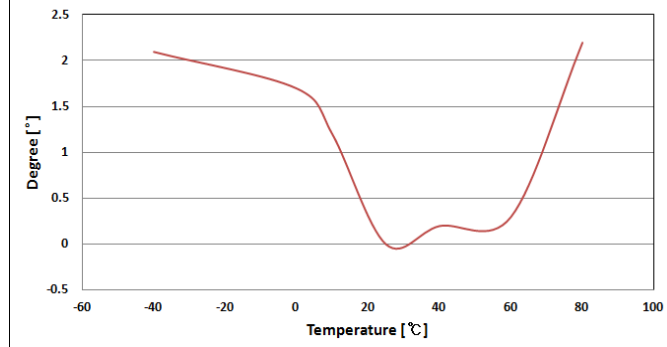


Cable Phase Stability with Temperature

Phase change GL140(s) [PPM]

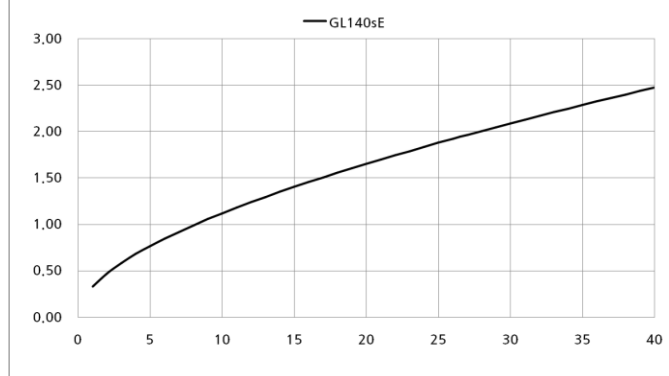


Phase change GL140(s) [deg/GHz/m]



Attenuation & Power

Attenuation [dB/m]



Average Power Rating [W]

