

# Ultra Low Loss High Temperature Cable Assembly (3.5mm Male-Male)

High Temperature Cable Assembly

Part No. :

G03SMC005-GUL200HT-G03SMC005-xx.0M

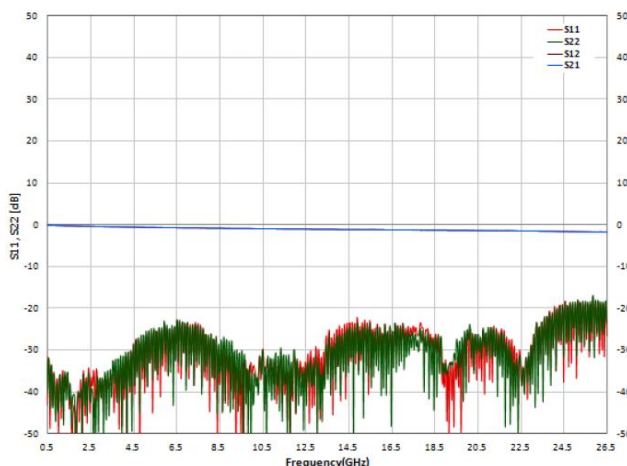
## - Cable [GUL200HT]

- Center conductor : silver plated copper
- Dielectric core : low density PTFE
- Outer conductor : silver plated copper
- Jacket : FEP / PUR(matt)

## - Connector

- Material : SUS(303) / BeCu / PTFE
- Type : 3.5mm Straight plug  
3.5mm Straight plug

## Measurement Graph



## Cable Assembly Drawing



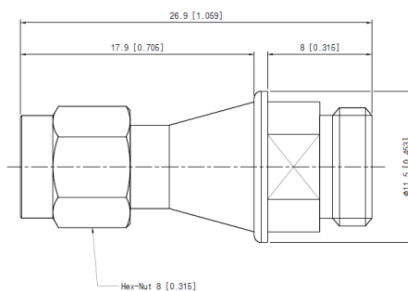
## Cable Specifications



### Physical & Environmental Specification

Frequency range	DC to 18 GHz
Center Conductor [mm]	1.45
Out diameter [mm]	5.2
Jacket Material	FEP (BLK)
Minimum bend radius (Min.)	25.5
Weight [g/m]	60
Temperature range	-55 ~ 185 °C

## Connector Specifications



### Physical & Environmental Specification

Impedance	50 Ω
Body	SUS 303
Center Conductor	BeCu(C1720)
Insulator	PTFE
max. VSWR [@18GHz]	<1.25 : 1

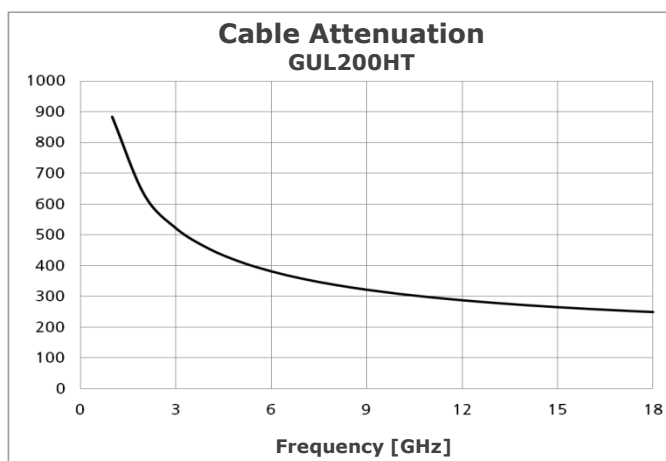
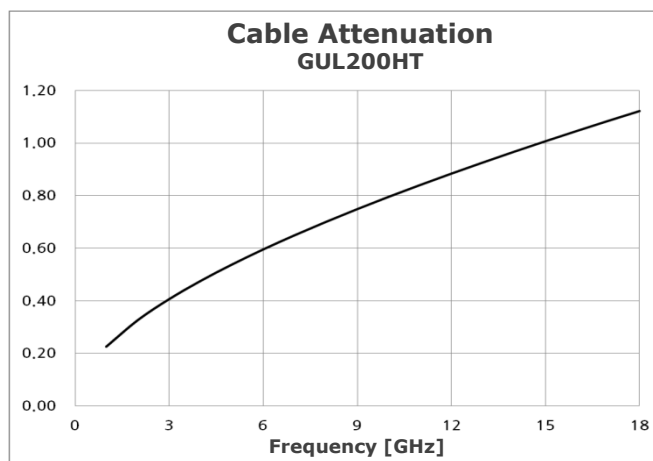
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## Electrical Specification

Impedance	50 $\Omega$
VSWR [max.] @18GHz	<1.25 : 1
Velocity of propagation	84% nom.
Dielectric constant	1.4
RF leakage [@18GHz]	>-90 dB
Time delay [ns/m]	4.0
Capacitance [pF/m]	79
Phase stability vs. flexure [@18GHz max.]	< 0.4 °
IL stability vs. flexure [dB @minimum BR]	< 0.1
Phase stability vs. temp. [deg/GHz/m](-50~100°C)	< 2 °

## Attenuation & Power



### Attenuation [dB/m] [Raw Cable]

1 GHz	0.25
3 GHz	0.42
6 GHz	0.58
12 GHz	0.85
18 GHz	1.09

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

1 GHz	850
2 GHz	600
6 GHz	345
12 GHz	300
18 GHz	240