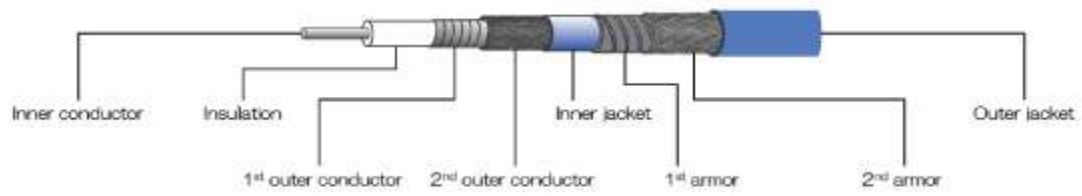
TCF 110GHz
Flexible Microwave Coaxial Cable Assemblies

Cable Structure



Inner Conductor	Solid silver plated copper wire
Insulation	Porous PTEE
1st Outer Conductor	Silver plated copper tape, wrapped
2st Outer Conductor	Solid silver plated copper braid
Inner Jacket	Solid silver plated copper wire
1st Armor	Solid silver plated copper wire
2nd Armor	Solid silver plated copper wire
Outer Jacket	Solid silver plated copper wire

Features

- For 110GHz application (compatible with DC~110GHz)
- Highly flexible
- Lower attenuation, reflective characteristic
- Corresponds to the length of your custom assembly

Applications

- Various types of radar
- Vehicle communication
- Wiring inside and outside the high-frequency devices
- Measuring instrument lead cable and port cable
- Telecommunications equipment (including optical)

Electrical Cable Data

Characteristic Impedance	50Ω
Capacitance	85pF/m
Time delay	4.3n/s
Transmission Rate	78%
Operating Frequency	110GHz
Moding Frequency	134GHz
Temperature Range	-55°C ~125°C
Min Bending Radius Static	1inch

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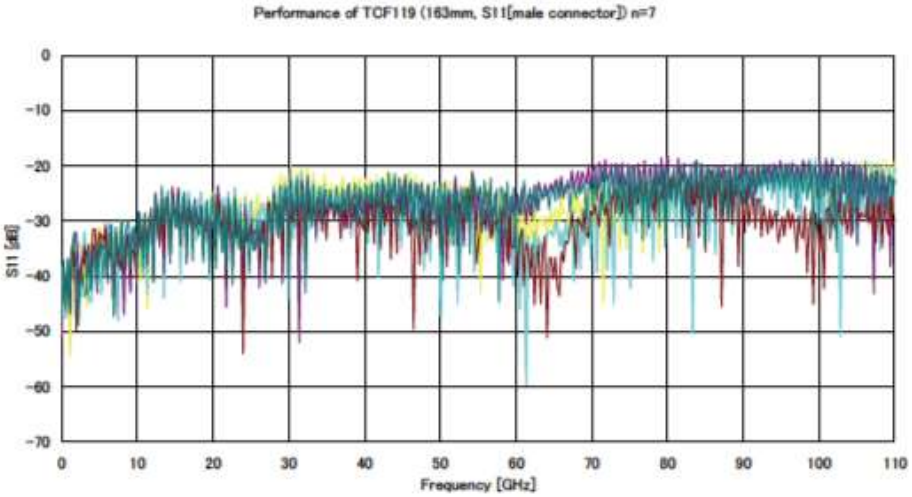
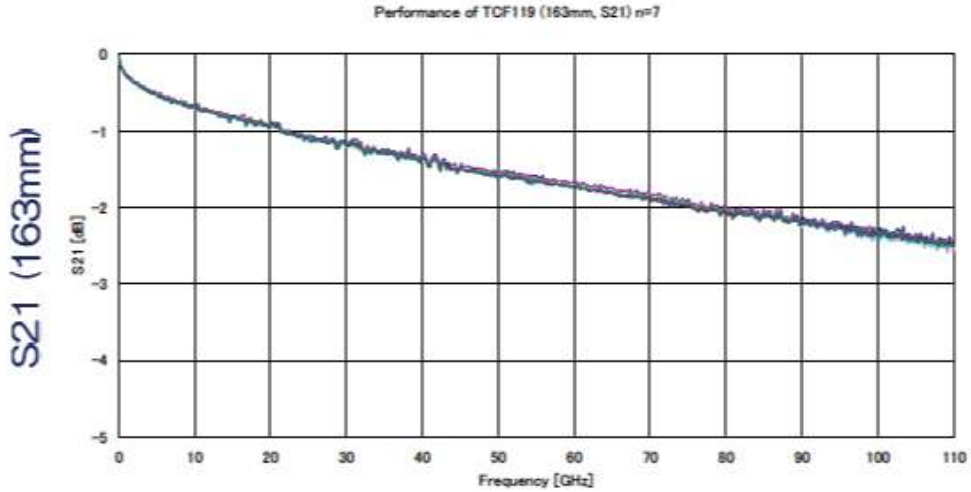
Return Loss Data(Typical)



Insertion Loss Data(Typical)



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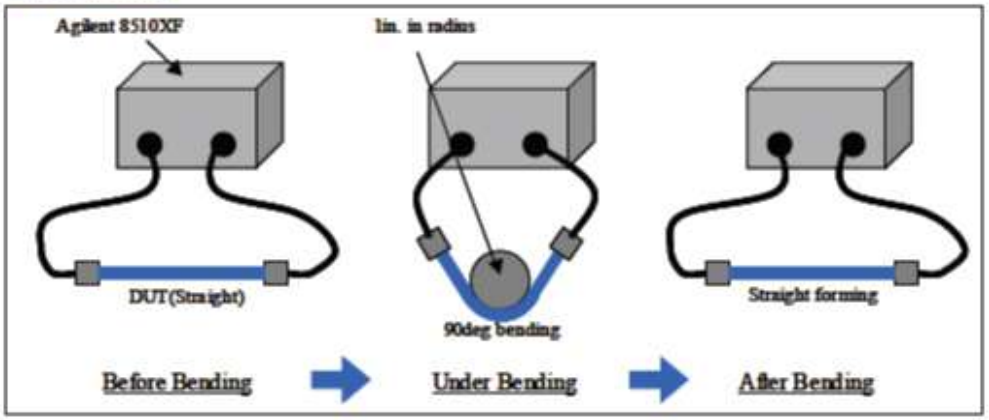
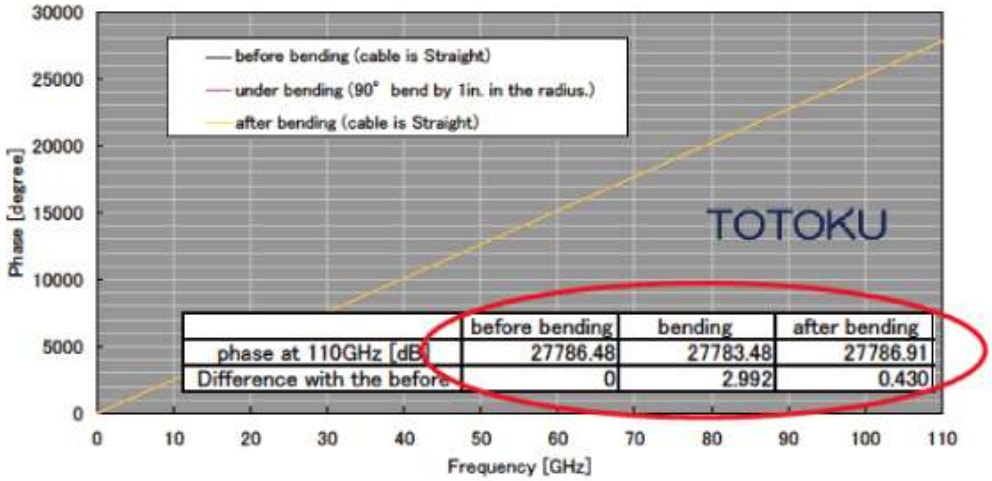
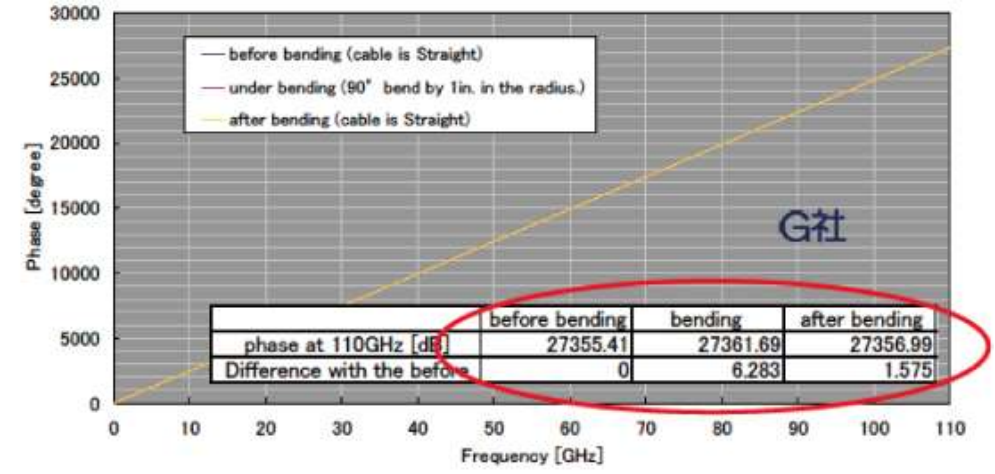
Phrase Stability of Bending

TEST Method





	before bending	bending	after bending
phase at 110GHz [dB]	27786.48	27783.48	27786.91
Difference with the before	0	2.992	0.430

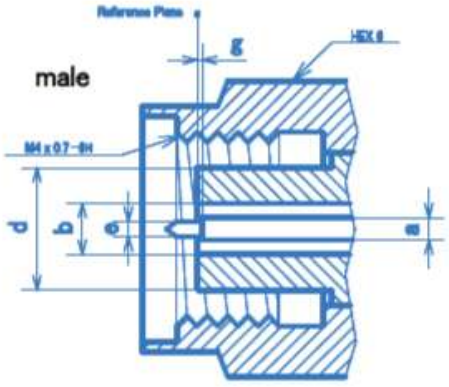


	before bending	bending	after bending
phase at 110GHz [dB]	27355.41	27361.69	27356.99
Difference with the before	0	6.283	1.575

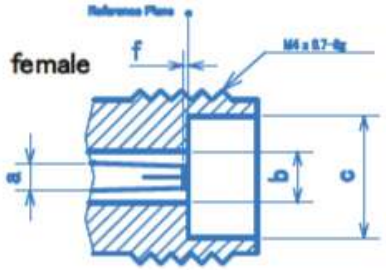
Connector Dimensions

Interface Mating Dimensions

(In millimeters)



a	Φ0.434
b	Φ1.000
c	Φ2.390
d	Φ2.358
e	Φ0.250
f	Φ0−0.025
g	Φ0−0.025



Body and Outer conductors : Gold plated stainless steel

Inner conductors : Gold plated Beryllium copper and brass

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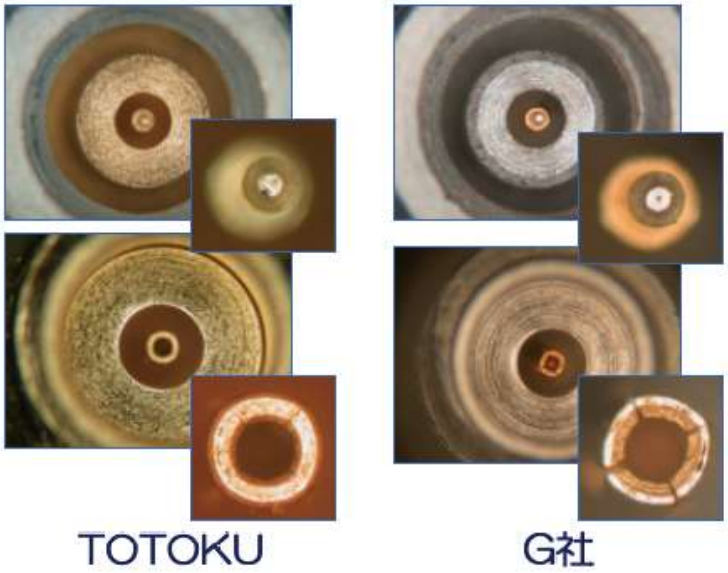
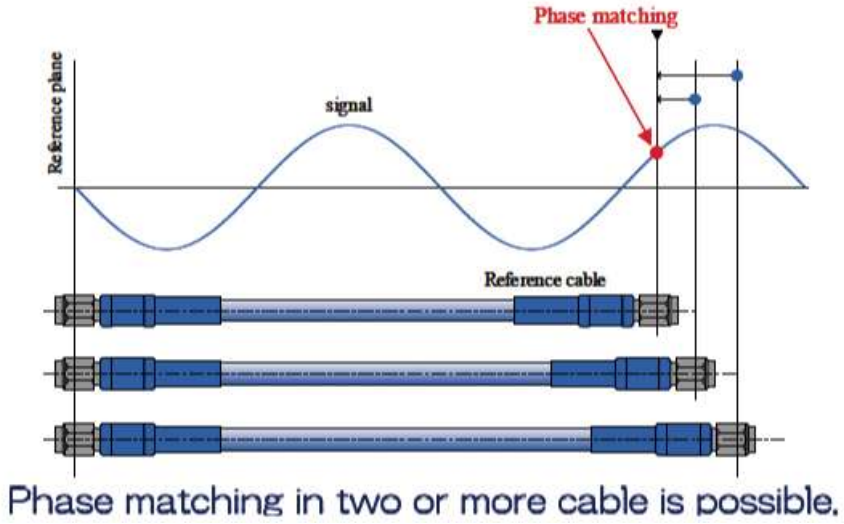
Interface Close-up



Phrase Matching technology



Phase matching in two or more cable is possible.

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