TC-065 Flexible/High phase stability/40GHz

Series Number
TC-065
High Frequency Test Cables　Flexible

Very flexible and easy-to-handle cable.
It is relatively inexpensive, low-loss, and highly phase-stable, so it can be used for a wide range of applications from wiring to measurement.
It can be used for a wide range of applications from wiring to measurement.
2.92mm connector is available up to 40GHz.

Mechanical Characteristics

Outer Diameter/Coating	3.3mm	FEP　Light blue
Center Conductor	0.70mm	Silver plated copper wire, Single
Insulator	2.15mm	Microporous PTFE
Outer Conductor1	-	Silver plated copper tape
Outer Conductor2	-	PPS resin tape
Outer Conductor3	2.80mm	Silver-plated soft copper wire braid
Operating temperature	-40℃～+125℃ (Typ.-65℃～+125℃)	
Bending radius (min.)	Inner R20mm	
Mass	21g/m	

Electrical Characteristics

Impedance	50Ω
Insulation resistance (20℃)	1000MΩ・km (Min.)
Withstand voltage	AC2000V / minute
Shield Characteristics	＞120dB
Frequency(Max.)	40GHz
Insertion Loss (typ)	0.43B/m(@1GHz) / 1.02dB/m(@5GHz)
VSWR (typ)	1.10(SMA)、1.20(K)、1.25(N)
Phase vs Bending (typ)	0.4° @6GHz,0.6° @10GHz(Inner R20mm,90-degree bend)
Phase vs Temperature (typ)	1500PPM(Max.) (-35℃～+125℃)

Applicable Connectors and Models

TC - 065 - SP - SJ - □□□□ - △△
① ② ③ ④ ⑤ ⑥
Cable Type / Connector1 / Connector2 / Length / Option

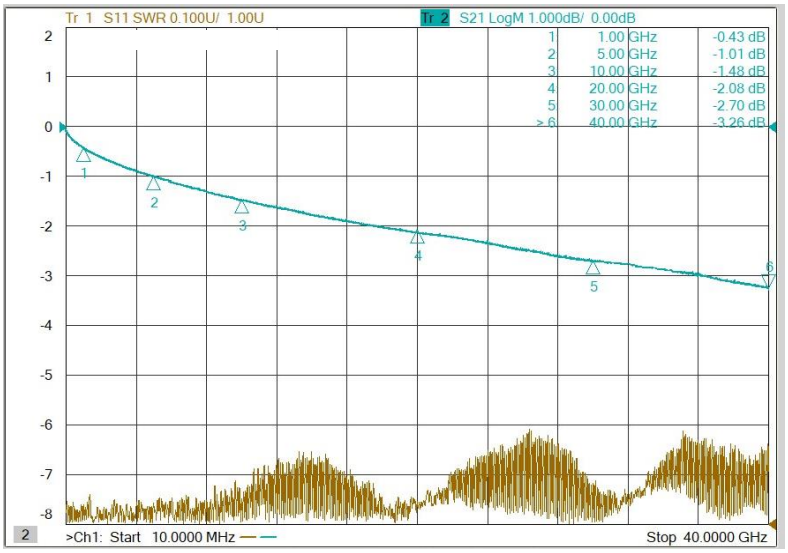
①	TC	RoHS compliant　*Non-RoHS requests are negotiable.	
②	065	Cable Type	
③ ④	SP	SMA(P)	～18GHz　(～26.5G ※)
	SJ	SMA(J)	～18GHz　(～26.5G ※)
	SLP	SMAL(P)	～18GHz
	2.92P	2.92mm(P)	～40GHz
	2.92J	2.92mm(J)	～40GHz
	NP	N(P)	～12.4GHz
	Consultation	N(J)	Consultation
⑤	□□□□	Cable length (mm)	
⑥	No entry	Standard Specification	
	26.5G	Frequency ～26.5GHz ※	Only SMA(P) and SMA(J)

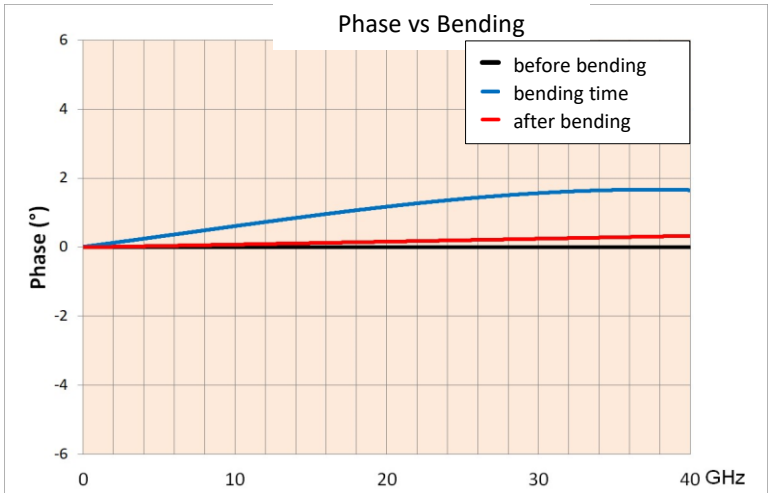
In the case of standard specifications, ⑥ is not required to be filled in.

TC-065 Flexible/High phase stability/40GHz

Measured data

Model ：TC-065-2.92P-2.92P-1000
(2.92mm(P)-2.92mm(P)　L=1m　～40GHz)





These are reference values for phase change with a bending radius of 20 mm and a 90-degree bend.

GHz	I.L(dB) (Typ)	VSWR(U) (Typ)
1	-0.43	1.04
2	-0.62	1.01
3	-0.76	1.01
4	-0.90	1.03
5	-1.02	1.04
6	-1.11	1.04
7	-1.24	1.04
8	-1.33	1.04
9	-1.41	1.00
10	-1.49	1.05
11	-1.57	1.02
12	-1.60	1.11
13	-1.70	1.07
14	-1.79	1.11
15	-1.85	1.08
16	-1.85	1.06
17	-1.99	1.07
18	-2.04	1.05
19	-2.09	1.02
20	-2.09	1.05
21	-2.19	1.05
22	-2.24	1.07
23	-2.30	1.11
24	-2.29	1.10
25	-2.43	1.10
26	-2.52	1.15
27	-2.51	1.09
28	-2.65	1.15
29	-2.70	1.05
30	-2.70	1.07
31	-2.73	1.07
32	-2.70	1.04
33	-2.78	1.08
34	-2.82	1.12
35	-2.91	1.14
36	-3.00	1.09
37	-3.08	1.13
38	-3.15	1.06
39	-3.22	1.09
40	-3.27	1.11

■Actual Applications

Measurement and inspection lines for production equipment
as flexible measurement cables
Wiring in equipment
Antenna wiring

■Custom Cases

We can also customize the connector
cable length and performance
to any other specifications.
Sweep processing at the connector neck.
Phase and electrical length control.

The data, etc. shown in the catalog are representative values and are not guaranteed.