

TC-065AS ϕ 7.8 Soft Armored Cable

Series Number
TC-065AS
Soft Armored Cable



This type of armored cable is more flexible than standard armored cables. It feels like a normal flexible cable, but the outer skin is protected by a stainless steel tube.

Supports up to 40GHz. (2.92mm connector)
 For use in sites with repetitive bending and tight routing. Use in thermostatic chambers. Outdoor field use, etc.

Mechanical Characteristics

Outer Diameter/Coating	7.8mm	Stainless Steel Tubing Coating: Polyolefin resin (shrink tubing)
Inner cable outer diameter	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°C~+125°C (Typ.-65°C~+125°C)	
Bending radius (min.)	Inner R30mm	
Mass	96g/m	

Electrical Characteristics

Impedance	50 Ω
Insulation resistance (20°C)	1000M Ω · 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°C~+125°C)

Applicable Connectors and Models

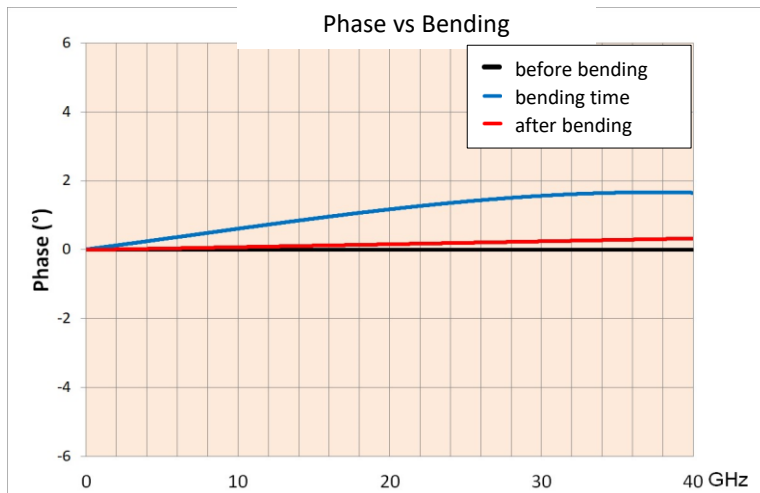
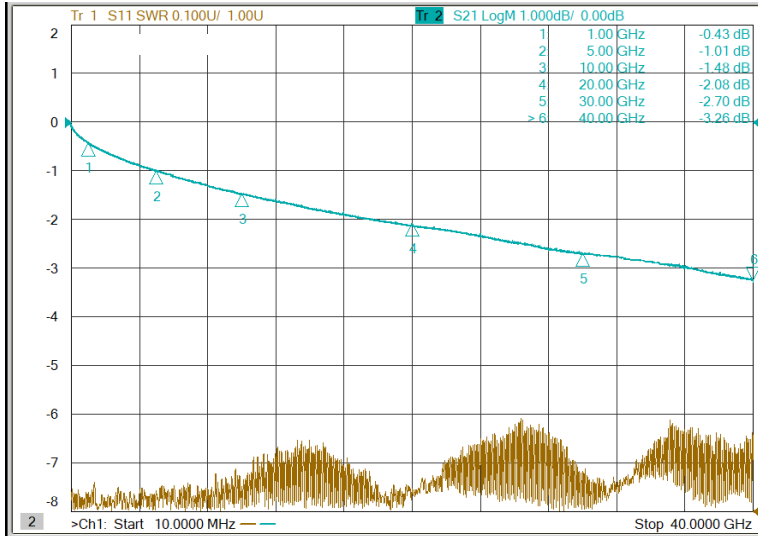
	TC	-	065AS	-	SP	-	SJ	-	□□□□	-	△△
	①		②		③		④		⑤		⑥
			Cable Type		Connector1		Connector2		Length		Option
									⑤ L (mm)		
	①	TC	RoHS compliant *Non-RoHS requests are negotiable.								
	②	065AS	Cable Type								
	③ ④	SP	SMA(P)	~18GHz (~26.5G ※)							
		SJ	SMA(J)	~18GHz (~26.5G ※)							
		SLP	SMAL(P)	~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.

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Measured data

Model : TC-065AS-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.

Actual Applications

Cables for measurement tests in thermostatic chambers.
Connection cables for elevated antennas outdoors.
EMC measurements.



Custom Cases

We can also manufacture products with performance, connectors, cable lengths, etc. other than the standard specifications.

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

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