TC-055A ϕ 8.4 Armored Cable

Series Number			
TC-055A			
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Armored Cable	Low loss/phase stability		



Armored cable reinforced with low-loss, highest grade TC-055 cable covered with stainless steel tubing. Stainless steel tube protects the cable from external pressure and ensures long life. For sites with repetitive bending and routing. Use in constant temperature tanks. Use in outdoor fields, etc.

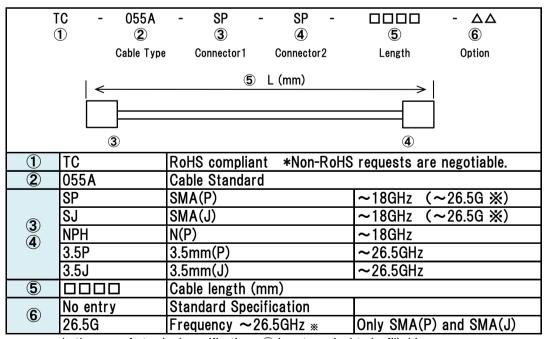
Mechanical Characteristics

Outer Diameter/Coating	8.4mm	Stainless Steel Tubing	
Inner cable outer diameter	5.46mm	FEP Transparency	
Center Conductor	1.42mm	Silver plated copper, Single	
insulator	4.19mm	Microporous PTFE	
Outer Conductor1	4.29mm	Silver plated copper	
Outer Conductor2	4.5mm	Aluminum/Polyimide Tape	
Outer Conductor3	4.9mm	Silver plated copper, Braided	
Operating temperature	-35°C~+135°C (Typ65°C~+200°C)		
Bending radius (min.)	Inner R65mm		
Mass	170g/m		

Electrical Characteristics

Impedance	50Ω		
Withstand voltage	AC2000V / minute		
Allowable power (typ)	1230W@1GHz / 480W@6GHz		
Shield Characteristics	>110dB		
Wavelength shortening rate	77.3%		
Frequency(Max.)	26.5GHz		
Insertion Loss (typ)	0.25dB/m(@1GHz) / 0.55dB/m(@5GHz)		
VSWR (typ)	1.10 (SMA), 1.20 (N), 1.10(3.5mm)		
Phase vs Bending (typ)	0.2° @6GHz, 0.4° @10GHz(Inner 20mm,90-degree bend)		
Phase vs Temperature (typ)	1500PPM(Max.) (-35°C~+135°C)		

Applicable Connectors and Models



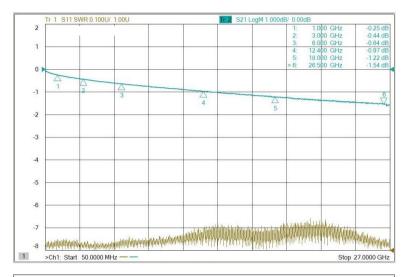
In the case of standard specifications, (6) is not required to be filled in.

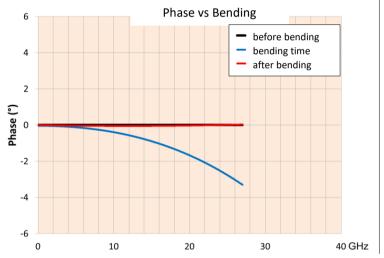
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Measured data

Model: TC-055A-SP-SP-1000-26.5G

(SMAP-SMAP L=1m \sim 26.5GHz)





	(Typ)	(Typ)
GHz	I.L(dB)	VSWR(U)
1	-0.25	1.04
2	-0.35	1.02
3	-0.43	1.06
4	-0.49	1.01
5	-0.55	1.03
6	-0.60	1.02
7	-0.65	1.08
8	-0.71	1.01
9	-0.75	1.07
10	-0.80	1.04
11	-0.83	1.11 1.09
12	-0.89	1.09
13	-0.91	1.12 1.05
14	-0.97	1.05
15	-1.00	1.05
16	-1.03	1.08
17	-1.08	1.03
18	-1.12 -1.14 -1.20	1.07
19	-1.14	1.04
20	-1.20	1.06
21	-1.24	1.08
22	-1.29	1.10
23	-1.31	1.05
24	-1.36	1.10
25	-1.39	1.03
26	-1.43	1.10
26.5	-1.46	1.03

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.

Armored tubes can also be covered with resin.

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