泰氟龍®
Taifulong

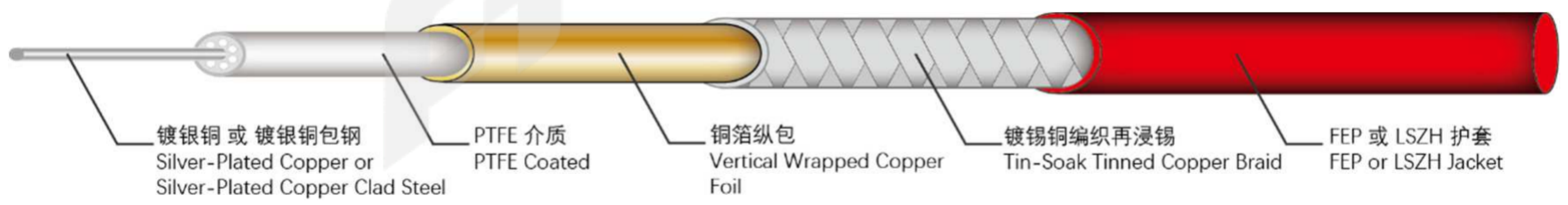
半柔藕芯 670-120-50 系列射频同轴电缆
670-120-50 Semi-Flexible Microporous RF Coaxial Cable

1. 电缆型号 Model

序号 No.	670 系列型号 670 Series	通信行业型号 E-Communication	国家标准型号 National Standards	电缆名称 Characteristics
1	670-120-50PFL	HSCPCF-50-2L	50-120-1P1/L	半柔藕芯聚四氟乙烯绝缘聚全氟乙丙烯护套同轴电缆(铜箔纵包) Semi-Flex Series Microporous PTFE Insulated Coaxial Cable FEP Jacket
2	670-120-50PFL2	HSCCSPCF-50-2L	50-120-2P1/L	
3	670-120-50PZL	HSCPCYZ-50-2L	50-120-1P3/L	半柔藕芯聚四氟乙烯绝缘聚烯烃护套同轴电缆(铜箔纵包) Semi-Flex Series Microporous PTFE Insulated Coaxial Cable LSZH Jacket
4	670-120-50PZL2	HSCCSPCYZ-50-2L	50-120-2P3/L	

*序号 1、3 的型号电缆内导体材质为镀银铜 SC；2、4 的型号电缆内导体材质为镀银铜包钢 SCCS
*Serial No. 1/3 Contain Silver-Coated Copper; 2/4 Contain Silver-Coated Copper Clad Steel

2. 结构 Structure



3. 规格 Style Spec.

规格 Style Spec.	材质 Material	标称厚度 Nominal Thick.	直径 Dia. (mm)
导体 Conductor	镀银铜 SC	----	0.82±0.02
	镀银铜包钢 SCCS	----	0.82±0.02
介质 Dielectric	聚四氟乙烯 PTFE	----	2.35±0.05
屏蔽层 Braid Layer	铜箔纵包 Copper Foil + 镀锡铜编织再浸锡 TTCB	----	2.95±0.10
护套 Jacket (电缆外径 OD)	聚全氟乙丙烯 FEP	0.20	3.50± 0.10
	低烟无卤聚烯烃 LSZH	0.25	3.60± 0.15

*TTCB: Tin-Soak Tinned Copper Braid;　SC: Silver-Coated Copper;　SCCS: Silver-Coated Copper Clad Steel

4. 电气性能 Electrical Performance

特性阻抗 Impedance	Ω	50±2
标称电容 Capacitance	pF/m	86.5
标称速比 VoP	%	78.0
延时 Latency	ns/m	4.7
相位差 Phase Diff.	°	1440±4
截止频率 Cut-Off Freq	GHz	36
屏蔽衰减 Attenuation	dB	≥ 100
三阶交调 IP3	dBm	≤-160

额定耐电压 Rated Voltage	V-DC	1000
工作温度 Rated Temperature	FEP 护套 / LSZH 护套	-55~+150 ℃ / -40~+85 ℃
镀银铜导体直流电阻 (20℃) SC Conductor Resistance	Ω/km	≤36.47
镀银铜包钢导体直流电阻 (20℃) SCCS Conductor Resistance	Ω/km	≤91.90
绝缘电阻 (20℃) Insulation Resistivity	MΩ.Km	≥5000

5. 回波损耗和驻波比 Return Loss And VSWR

频率 Frequency (MHz)	回波损耗 Return Loss	频率 Frequency (MHz)	驻波比 VSWR
100~1000	≥26.5	0~3000	≤1.10
1000~3000	≥24.0	3000~6000	≤1.22
3000~6000	≥20.0		

6. 衰减常数 Attenuation Parameter (@20°C) dB/m

频率 Frequency (MHz)	最大衰减 Maximum Attenuation (dB/m)
800	0.38
1000	0.43
1800	0.60
2000	0.63
2200	0.73
3800	0.92
6000	1.20

7. 机械性能 Mechanical Properties

单次最小弯曲半径 Single Bend Radius		mm	10
多次最小弯曲半径 Repeat Bend Radius		mm	50
镀银铜导体 SC Conductor	抗张强度 Tensile Strength	MPa	≥196
	断裂伸长率 Elongation at Break	%	≥0.5
镀银铜包钢导体 SCCS Conductor	抗张强度 Tensile Strength	MPa	≥758
	断裂伸长率 Elongation at Break	%	≥1
FEP 护套 FEP Jacket	抗张强度 Tensile Strength	MPa	≥ 19
	断裂伸长率 Elongation at Break	%	≥ 300
LSZH 护套 LSZH Jacket	抗张强度 Tensile Strength	MPa	≥ 10
	断裂伸长率 Elongation at Break	%	≥ 125

8. 阻燃及环保 Flame Ratings and Environmental Requirements

阻燃性能 Flame Ratings	IEC60332-1-2	绝缘和护套 Insulating and Jacket
环保要求 Enviro. Requirements	RoHS、REACH	