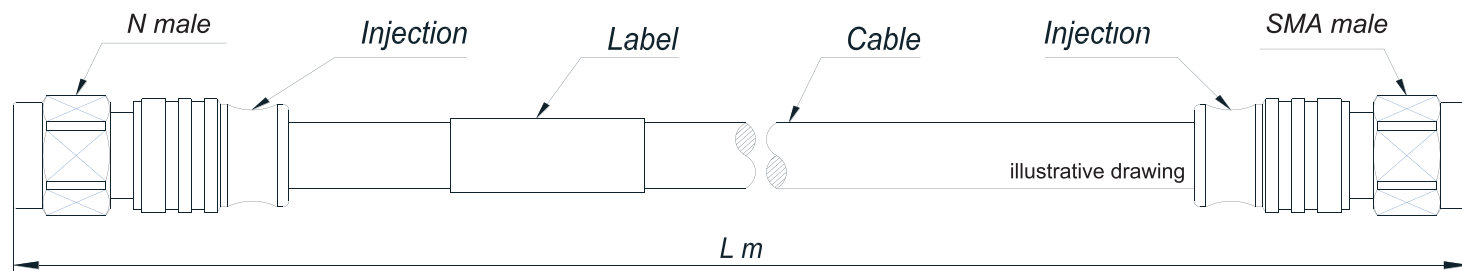


# Product Specification

## OT-NMBSMAM14S(L m)-XX

1/4" Super Flexible Cable Assembly  
N Male To SMA Male (N Side with Boot)



### Product Description

Jumper Length	Lm(As Per Customized)	
Cable Type	OT-FC14SCCFR(1/4" Super Flexible)	
Inner Conductor	Copper-Clad Aluminum Wire	
Dielectric	Physical Foam Polyethylene	
Outer Conductor	Corrugated Copper Tube	
Jacket	Low Smoke Halogen-free Fire-retardant (LLDPE or EVA)	
Connector Type	N type male	SMA type male
Inner Conductor Pin	Brass/Silver Plating	Brass/Silver Plating
Body&Outer Conductor	Brass/Trimetal Plating	Brass/Trimetal Plating
Insulator	PTFE	PTFE
Gasket	Silicon Rubber	Silicon Rubber
Nut	Brass/Nickel Plating	Brass/Nickel Plating

### Electrical Specifications

Characteristics Impedance	50 Ohm
Frequency Range	DC~20GHz
Insulation Resistance	≥5000MΩ
Dielectric Withstanding Voltage	2500V rms (DC)
Operating Voltage	1500V rms
Insertion Loss	@DC-2.7GHz ≤0.14*L+0.082dB (L=Cable Length)
	@2.7-4.0GHz ≤0.20*L+0.12dB (L=Cable Length)
VSWR	@DC-1.0GHz ≤1.05
	@1.7-2.7GHz ≤1.06
	@2.7-5.0GHz ≤1.10
PIM3(2*43dBm)	@1800MHz ≤-160dBc

### Environmental & Mechanical Specifications

Cable Tensile resistance	≥700N
Torque Proof (Nut)	N type : 3 N· m
Storage Temperature	-45°C to +65°C
Operating temperature	-40°C to +85°C
Water Proof level	IP68 24hr, 1m, 20
RoHS	Compliant

### Regulatory Compliance / Certification

ISO 9001:2015	Compliant
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# Product Specification

## OT-FC14SCCFR-XX

O-TECH RF FOAMFLEX LINE CABLE, Foam Dielectric , 1/4" Super Flexible, Outer Conductor Material Corrugated Copper, Flame Retardant, Halogen free jacket LSZH

### Electrical Specifications

Impedance	550 ± 1Ω
Relative Velocity of Propagation	81%
Capacitance	83 pF/m
Maximum Operating Frequency	20.4 GHz
Peak Power Rating	6.4kW
Insulation Resistance	≥5000 MΩ . km
DC Breakdown Voltage	2000V
Jacket Spark Test Voltage	3000 Vrms
Inner Conductor DC-resistance	≤10.20 Ω/km
Outer Conductor DC-resistance	≤7.30 Ω/km
Shielding Attenuation	≥120dB
Intermodulation(3rd order,2*20W)	≤-160dBc
VSWR	300MHz - 2700MHz≤1.12 3300MHz - 4200MHz≤1.19 4400MHz - 6000MHz≤1.22



### Mechanical Characteristics

Inner conductor	Copper Clad Aluminum wire	Ø 1.90±0.03 mm
Insulation	Foam PE	Ø 4.85±0.15 mm
Outer conductor	Helical corrugated copper tube	Ø 6.40±0.15mm
Jacket	PE or EVA Black LLDPE or fire-retardant EVA (LSZH)	Ø 7.50 ±0.15mm
	PE	LSZH
Installation Temperature	-40°C to +60°C	-20°C to +60°C
Operating Temperature	-55°C to +85°C	-30°C to +80°C
Storage Temperature	-70°C to +85°C	-30°C to +80°C
Cable weight		
PE	≈65 kg/km	
LSZH	≈75 kg/km	
Tensile strength	600 N	
Min. bending radius (single)	15 mm	
Min. bending radius (repeated)	25 mm	
Bending moment	0.7 Nm	
Flat plate crush strength	18N/mm	

### Standard Conditions

Attenuation, VSWR 1.0 Ambient Temperature	20°C
Average Power, VSWR 1.0 Ambient Temperature	40°C
Average Power, Inner Conductor Temperature	100°C

### Attenuation and Average Power

Frequency (MHz)	Attenuation (dB/100m)	Average Power (KW)
200	8.28	0.79
450	12.67	0.52
800	17.28	0.38
900	18.39	0.36
1800	26.86	0.25
2000	28.47	0.23
2200	30.06	0.22
2500	32.34	0.21
2700	33.56	0.20
3000	35.78	0.19
3400	38.38	0.17
4000	42.16	0.16
5000	47.82	0.14

### Regulatory Compliance/Certifications

RoHS 2011/65/EU	Compliant
China RoHS SJ/T 11364-2006	Below Maximum Concentration Value (MCV)
ISO 9001:2015	Designed, manufactured and/or distributed under this quality management system
Fire : IEC 60754-1、-2; IEC 60332-1、-2; IEC 61034-1、-2; IEC 60332-3-24.	

\* Maximum attenuation value shall be 105% of the nominal attenuation value

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