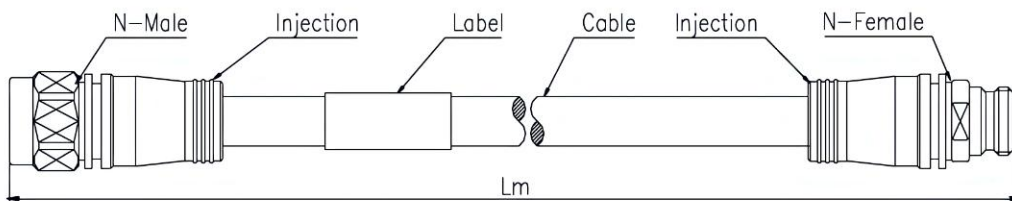




RF cable assembly, 3/8 in super-flexible coaxial cable with FRNC jacket, N male to N female.



General Specifications

Flexibility	Super-flexible
Jacket Color	Black
Performance Note	Attenuation guaranteed within the tolerance $\pm 10\%$
Structure Note	Dimension guaranteed within the tolerance $\pm 1\%$
Nominal Cable Size	3/8 in
Connector 1	N male
Connector 2	N female
Frequency Band	DC - 4 GHz
Insertion Loss	Cable loss + Connector loss ($0.1 \cdot \sqrt{FGHz}$)
Return Loss	$\leq -28\text{dB}$ @DC-1GHz $\leq -26\text{dB}$ @1.0-2.2GHz $\leq -23\text{dB}$ @2.2-3.0GHz $\leq -22\text{dB}$ @3.0-3.8GHz
PIM (900MHz, 3rd Order)	$\leq -160\text{dBc}$ @ $2 \times 43\text{dBm}$
Impedance	50 ohms ± 1 ohm

Cable Specifications

Maximum Available Frequency	15 GHz
Cut-off Frequency	17 GHz
Velocity Ratio	82%
Peak Power	7.2 kW
Insulation Resistance	5000 MΩ·km
DC Breakdown Voltage	2300 V
Nominal Capacitance	82 pF/m
Nominal Inductance	0.195 μH/m

Cable Material

Inner Conductor	Copper-Clad Aluminum Wire
Dielectric	Physical Foam Polyethylene
Outer Conductor	Helical Corrugated Copper Tube
Jacket	FRNC

Attenuations

Frequency (MHz)	Attenuation (dB/100 m)	Attenuation (dB/100 ft)	Average Power (kW)
0.5	0.27	0.08	13.20
1	0.38	0.12	13.20
1.5	0.46	0.14	13.20
2	0.54	0.16	6.92
10	1.21	0.37	4.87
20	1.71	0.52	3.97
30	2.11	0.64	3.06
50	2.73	0.83	2.14
88	3.65	1.11	1.98
100	4.21	1.28	1.87
108	4.46	1.36	1.76
150	4.81	1.47	1.61
174	5.20	1.58	1.49
200	5.59	1.70	1.21
300	6.92	2.11	1.04

400	8.06	2.46	0.98
450	9.40	2.87	0.86
500	10.00	3.05	0.85
512	10.40	3.17	0.83
600	10.89	3.32	0.77
700	11.88	3.62	0.72
800	12.87	3.92	0.65
824	13.86	4.22	0.59
900	14.16	4.32	0.51
960	14.36	4.38	0.48
1000	14.95	4.56	0.47
1250	16.53	5.04	0.45
1500	17.72	5.40	0.42
1700	21.58	6.58	0.38
1800	22.18	6.76	0.35
2000	23.27	7.09	0.35
2100	25.35	7.73	0.32
2200	27.23	8.30	0.31
2400	28.91	8.81	0.28
3000	36.83	11.23	0.22
4000	43.86	13.37	0.19
6000	50.30	15.33	0.16
8000	44.90	13.69	0.16

Return Loss / VSWR

Frequency Band	VSWR	Return Loss (dB)	Tolerance
DC-1.0GHz	1.08	28.3	5%
1.0-2.2GHz	1.12	24.9	5%
2.2-3.0GHz	1.15	23.1	5%
3.0-3.8GHz	1.17	22.1	5%

Mechanical Specifications

Bend Protection	Molding
Label	Wrap Sticker
Bending Radius (Single)	≥15 mm
Bending Radius (Repeated)	≥30 mm
Number of Bending (Typical)	≤15
Tensile Strength	950N
Connector Tightening Torque	≤30N.m for 7/16 DIN Type ≤8N.m for 4.3-10 Type ≤8N.m for mini-DIN Type ≤1.5N.m for N Type ≤1.8N.m for NEX10 Type
Unit Packing	1pcs in PE bag
Package Packing	Quality Carton

Environmental Specifications

Installation Temperature	-20 °C to +55 °C
Operating Temperature	-20 °C to +85 °C
Storage Temperature	-25 °C to +85 °C
Relative Humidity	5% - 95%
IP Rating	Mated IP68, 1m, 1.5hrs, 20 deg-C

Regulatory Compliances

ISO 9001:2015	Compliant
ROHS	Compliant
China RoHS	Compliant
UK RoHS	Compliant
REACH	Compliant
EU/CE	Compliant

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