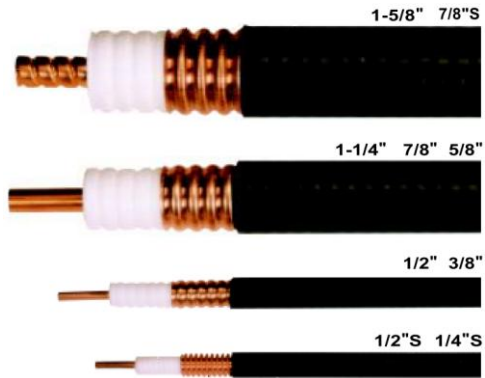


50 ohm Feeder Coaxial Cable



SINYU introduced 50 ohm Feeder coaxial cable is fabricated by leading edge well controlled physical-foaming technology, which ensures the promising high-quality and excellent performance.

Application

- Antenna feeder system/ jumper cables
- VLF, AM & FM broadcast systems
- P2P terrestrial microwave
- Airborne & shipboard radar systems

Specifications										
Item		1-5/8"	1-1/4"	7/8"	7/8"S	5/8"	1/2"	1/2"S	3/8"	1/4"S
Conductor OD (mm)	Inner	17.30	13.10	9.05	9.42	7.05	4.80	3.60	3.15	1.91
	Outer	46.5	35.8	24.9	24.9	19.80	13.80	12.20	9.53	6.40
Jacket OD /Thickness (mm)		50.0/1.75	39.4/1.80	27.5/1.30	27.5/1.05	22.2/1.20	15.8/1.00	13.2/0.70	11.2/0.85	7.4/0.60
Nom. Weight (kg/km)		1310	980	530	430	400	240	210	135	80
Min. bending radius (mm)	Single/Repeat	300/510	200/380	120/250	80/125	90/200	70/125	25/30	50/95	20/25
	Mobile	N/A	N/A	500	400	450	350	200	300	200
Max. pulling strength (N)		3630	5900	1470	1020	3630	1130	800	800	680
Nom. Capacitance (pF/m)		76	75	75	74.2	76.1	75.8	82	75	79.4
Impedance (Ω)		50 \pm 1								
Velocity ratio (%)		88	89	89	88	89	88	84	88	84
Attenuation @20°C (dB/100m)	10 MHz	0.2	0.25	0.37	0.4	0.48	0.67	1.04	1.06	1.83
	100 MHz	0.67	0.83	1.19	1.30	1.55	2.17	3.41	3.42	5.89
	200MHz	0.98	1.20	1.72	1.87	2.24	3.10	4.91	4.90	8.41
	300 MHz	1.22	1.50	2.13	2.32	2.78	3.83	6.09	6.06	10.40
	450 MHz	1.53	1.87	2.65	2.88	3.46	4.75	7.59	7.51	12.80
	800 MHz	2.13	2.59	3.63	3.94	4.75	6.46	10.40	10.20	17.40
	1000 MHz	2.43	2.94	4.12	4.46	5.38	7.28	11.80	11.60	19.60
	1500 MHz	3.11	3.73	5.18	5.60	6.78	9.09	14.90	14.40	24.30
	2000 MHz	3.71	4.43	6.11	6.59	8.02	10.70	17.60	17.00	28.50
Mean power rating (environment@40°C, Inner conductor @ 80°C) (kW)	3000 MHz	N/A	5.68	7.76	8.35	10.20	13.40	22.40	21.40	35.60
	10 MHz	54.30	3.80	24.60	21.50	16.70	11.30	10.10	7.23	3.97
	100 MHz	16.40	11.70	7.56	6.62	5.14	3.49	3.08	2.24	1.23
	200MHz	11.30	8.12	5.26	4.61	3.57	2.44	2.14	1.56	0.865
	300 MHz	9.01	6.52	4.24	3.72	2.87	1.97	1.72	1.26	0.701
	450 MHz	7.18	5.22	3.41	2.99	2.31	1.59	1.38	1.02	0.567
	800 MHz	5.15	3.78	2.48	2.19	1.68	1.17	1.01	0.748	0.419
	1000 MHz	4.52	3.32	2.19	1.94	1.48	1.04	0.889	0.663	0.372
	1500 MHz	3.54	2.62	1.74	1.54	1.18	0.833	0.705	0.53	0.299
2000 MHz	2.96	2.21	1.48	1.31	0.996	0.71	0.597	0.451	0.256	
3000 MHz	N/A	1.72	1.16	1.04	0.783	0.565	0.469	0.358	0.204	
DC breakdown Voltage (V)		> 11000	> 9000	> 6000	> 6000	> 5000	> 4000	> 2500	> 25000	> 1600
RF peak power (kW)		315	205	91	90	62	40	15.60	15.60	6.4
Cut-off frequency (GHz)		3.00	4.00	6.00	4.90	6.10	8.80	10.20	13.50	20.40
Shielding effectiveness (dB)		>> 120								
Insulation resistance		$\geq 5 \times 10^3$								
VSWR	0.01GHz-3GHz	--			≤ 1.15					
	0.01GHz-2GHz	≤ 1.15			--					
	820MHz-960MHz	≤ 1.10								
	1.7GHz-1.9GHz									
	2.1GHz-22.GHz									