



50OHMS CORRUGATED COPPER TUBE COAXIAL CABLE

50 欧姆皱纹铜管同轴电缆

产品简介 PRODUCT INTRODUCTION

汉胜 50 欧姆皱纹铜管同轴电缆是经多年技术研究及产品设计，并自欧洲和美国引进物理发泡绝缘生产线及氩弧焊轧纹生产线研制生产，具有多种类型、尺寸，产品性能达当今国际先进水平。

汉胜 50 欧姆皱纹铜管同轴电缆主要用于地面移动通信及无线电通讯天线馈线、地面基站用天线跳线、机房用馈线及天线连接线、军用数据信息传输线、超低频、调幅及调频无线电广播系统、地面微波通讯、航空及航海用雷达系统、战略等便携式通讯系统等。

Hansen's manufacturing of wide-scope 50ohms corrugated copper coaxial Cable is the fruitful result of the engineers' diligent research into technology and accumulated rich know-how of product-designing for many years. The imported world-level physical-foaming production line and the TIG Welding & Corrugating line further assure the high quality and excellent performances of diversified dimensions.

Hansen 50ohms corrugated coaxial cables series have wide applications in antenna feeder systems as follows: Land mobile and cellular radio; Earth station antenna jumper cables; Jumpers for equipments room and antenna connection; Military data links; VLF, AM and FM radio broadcast systems; Point-to-point terrestrial microwave; Airborne and shipboard radar systems; Tactical, restoration and portable communication systems; And others.

电气特性优良 EXCELLENT ELECTRICAL PERFORMANCES

绝缘体采用发泡度约 80% 的物理高发泡聚乙烯，衰减低，温度系数小，对温度变化具有很好的稳定性。物理高发泡聚乙烯绝缘线芯在长度方向上结构均匀一致，外导体采用高精度轧纹铜管，电压驻波比小，使用频率高。

80% Super-high degree foaming polyethylene insulation features with low attenuation and stability in case of temperature variation due to small coefficient of temperature. The insulation of longitudinally homogenous structure and extra-precisely corrugated copper tube outer conductor characteristic of low VSWR makes the cable your choice even in high-frequency applications.

使用方便 规格齐全 SIMPLE USE AND COMPLETE RANGE

外导体采用薄壁皱纹铜管，重量轻，柔软性好，弯曲方便，易于终端作业。

汉胜 50 欧姆皱纹铜管同轴电缆共有 6 个规格，并根据使用需要研制了 1/2" S 的超柔型电缆。

The light, flexible and easily-bending thin-wallness corrugated copper conductor offers convenience for terminal work. With totally 6 types in terms of dimensions, Hansen can provide the customer with exceptionally Super-flexible kind (say 1/2"S) per their requirements.

维修保养简单 EASE OF MAINTENANCE

物理高发泡聚乙烯及皱纹外导体在保证电缆在无需充入干燥气体的条件下也不会受潮，有效确保了电缆性能长期的稳定性。

The special structure of high-degree physical foaming PE insulation and Corrugated copper tube outer conductor presents premises for effective moisture-proofing even without injection of drying-gases, thus assuring performances stability in terms of long period.



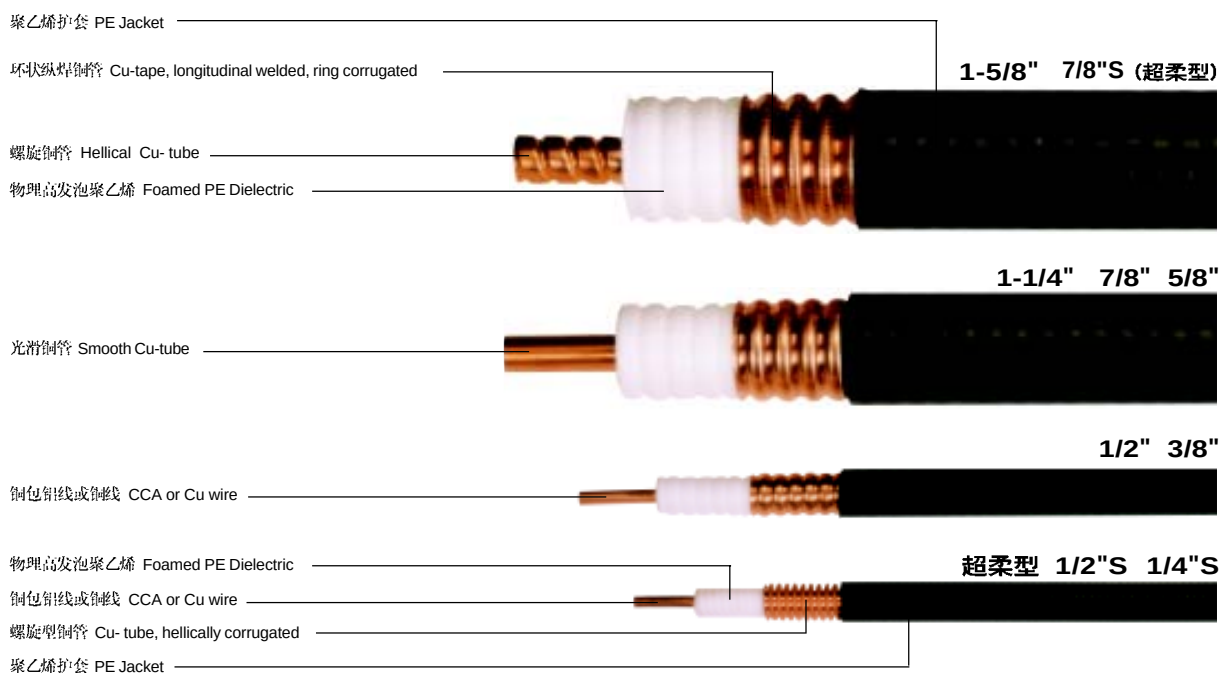


50 OHMS CORRUGATED COPPER TUBE COAXIAL CABLE

Hansen

50 欧姆皱纹铜管同轴电缆

产品结构 CABLE CONSTRUCTION



结构性能参数 SPECIFICATIONS

	1-5/8"	1-1/4"	7/8"	5/8"	1/2"	3/8"	7/8"S	1/2"S	1/4"S
结构参数 Physical Dimensions									
内导体 Inner Conductor (Dia.mm)	17.30	13.10	9.05	7.05	4.80	3.15	9.42	3.60	1.91
外导体 Outer Conductor (Dia.mm)	46.50	35.80	24.90	19.80	13.80	9.53	24.90	12.20	6.40
* 外护套 Jacket (mm)	厚度 Thickness		1.75	1.80	1.30	1.20	1.00	0.85	1.05
	外径 Diameter		50.00	39.40	27.50	22.20	15.80	11.20	27.50
重量 Weight (kg/km)	1310	980	530	400	240	135	430	210	80
机械性能 Mechanical Characteristics									
最小弯曲半径(mm)	单次弯曲 Single Bending	300	200	120	90	70	50	80	25
Minimum Bending Radius (mm)	十次重复弯曲 10 Repeated Bendings	510	380	250	200	125	95	125	30
	移动应用 Mobile Application	----	----	500	450	350	300	400	200
最大拉断力 Max. Pulling Strength (N)		3630	5900	1470	3630	1130	800	1020	800

* 注: 外护套可根据用户要求采用低烟、无卤阻燃PE (经权威机构检测, 已达到UL1581—1990 燃烧试验标准。)

NOTE: Fire-Retardency PE outer sheath can be available per customer's requirement.



50 欧姆皱纹铜管同轴电缆

结构性能参数 SPECIFICATIONS

			1-5/8"	1-1/4"	7/8"	5/8"	1/2"	3/8"	7/8"S	1/2"S	1/4"S
电气性能 Electrical Characteristics											
标准电容 Nominal Capacitance (pF/m)			76	75	75	76.1	75.8	75	74.2	82	79.4
阻抗 Characteristic Impedance (Ω)							50 ± 1				
传输速率 Velocity Ratio (%)			88	89	89	89	88	88	88	84	84
最大衰减 Attenuation (20℃) (dB/100m)	10MHz	0.20	0.25	0.37	0.48	0.67	1.06	0.40	1.04	1.83	
	100MHz	0.67	0.83	1.19	1.55	2.17	3.42	1.30	3.41	5.89	
	150MHz	0.83	1.03	1.47	1.92	2.67	4.22	1.61	4.21	7.25	
	200MHz	0.98	1.20	1.72	2.24	3.10	4.90	1.87	4.91	8.41	
	300MHz	1.22	1.50	2.13	2.78	3.83	6.06	2.32	6.09	10.40	
	450MHz	1.53	1.87	2.65	3.46	4.75	7.51	2.88	7.59	12.80	
	800MHz	2.13	2.59	3.63	4.75	6.46	10.20	3.94	10.40	17.40	
	900MHz	2.29	2.77	3.88	5.07	6.87	10.90	4.22	11.20	18.40	
	1000MHz	2.43	2.94	4.12	5.38	7.28	11.60	4.46	11.80	19.60	
	1500MHz	3.11	3.73	5.18	6.78	9.09	14.40	5.60	14.90	24.30	
	1800MHz	3.47	4.16	5.75	7.54	10.10	16.00	6.21	16.60	26.90	
	2000MHz	3.71	4.43	6.11	8.02	10.70	17.00	6.59	17.60	28.50	
	2500MHz	4.27	5.08	6.95	9.15	12.10	19.30	7.50	19.20	32.10	
3000MHz	----	5.68	7.76	10.20	13.40	21.40	8.35	22.40	35.60		
功率容量 Mean Power Rating (kW) (环境温度40℃,内导体温度为80℃) (Ambient Temperature 40℃,Inner Conductor 80℃)	10MHz	54.30	38.60	24.60	16.70	11.30	7.23	21.50	10.10	3.97	
	100MHz	16.40	11.70	7.56	5.14	3.49	2.24	6.62	3.08	1.23	
	200MHz	11.30	8.12	5.26	3.57	2.44	1.56	4.61	2.14	0.865	
	300MHz	9.01	6.52	4.24	2.87	1.97	1.26	3.72	1.72	0.701	
	450MHz	7.18	5.22	3.41	2.31	1.59	1.02	2.99	1.38	0.567	
	800MHz	5.15	3.78	2.48	1.68	1.17	0.748	2.19	1.01	0.419	
	1000MHz	4.52	3.32	2.19	1.48	1.04	0.663	1.94	0.889	0.372	
	1500MHz	3.54	2.62	1.74	1.18	0.833	0.53	1.54	0.705	0.299	
	1800MHz	3.17	2.35	1.57	1.06	0.753	0.479	1.39	0.634	0.271	
	2000MHz	2.96	2.21	1.48	0.996	0.71	0.451	1.31	0.597	0.256	
2500MHz	2.58	1.92	1.30	0.868	0.627	0.40	1.15	0.525	0.226		
3000MHz	----	1.72	1.16	0.783	0.565	0.358	1.04	0.469	0.204		
直流击穿电压 DC Breakdown Voltage (V) ≥			11000	9000	6000	5000	4000	2500	6000	2500	1600
峰值功率 RF Peak Power (kW)			315	205	91	62	40	15.60	90	15.60	6.4
截止频率 Cut-off Frequency (GHz)			3.00	4.00	6.00	6.10	8.80	13.50	4.90	10.20	20.40
屏蔽衰减 Shielding Effectiveness (dB)							>>120				
绝缘电阻 Insulation Resistance (MΩ·km)							≥ 5 x 10 ³				
电压驻波比 (VSWR)	0.01GHz — 3GHz		----			≤ 1.15					
	0.01GHz — 2GHz		≤ 1.15			----					
	820MHz — 960MHz		≤ 1.10								
	1.7GHz — 1.9GHz										
2.1GHz — 2.2GHz											



50 OHMS RADIATING COAXIAL CABLE

Hansen

50 欧姆漏泄同轴电缆

产品简介 PRODUCT INTRODUCTION

漏泄电缆用于一般通讯天线难以发挥作用的领域，特别是在移动通信系统分立天线无法提供足够的通讯覆盖的区域。漏泄电缆既具有信号传输作用，又有天线接收功能。

汉胜 50 欧姆漏泄同轴电缆系采用进口可多向开槽设备，切削一组合适的外导体槽孔，使电缆周围沿信号传输方向具有强度相对均匀的射频信号，实现信号在分立天线盲区的长距离输送。

Radiating cables are used whenever normal radio communication is difficult or impossible in particular in communication systems where a discrete antenna would not provide adequate coverage. A radiating cable functions both as a transmission line and as an antenna.

Hansen 50ohms radiating coaxial cable series are manufactured by abrading the peaks of corrugation along the cable axis with the imported multi-directional slotting machine. The evenly-distributed relatively strong radiating signal in the close vicinity of the cable along its axis makes it possible the signal-transmission across long distance in the uncovered area by the discrete antenna.

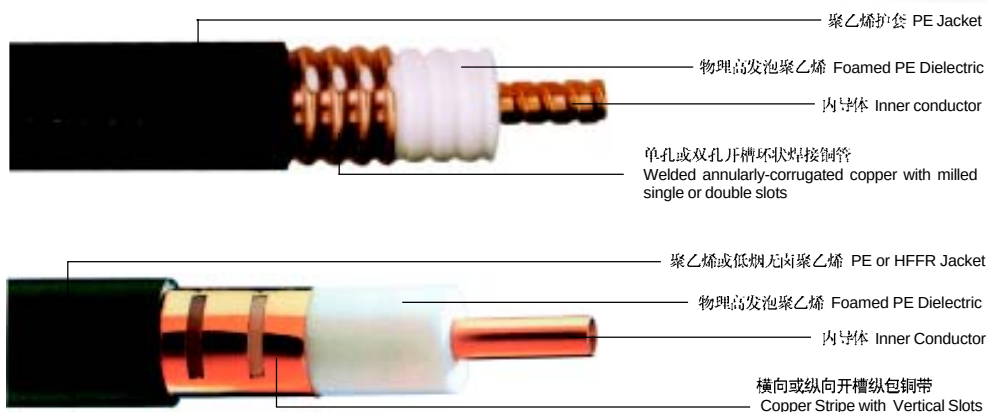
适用范围 APPLICATIONS

建筑物内、矿井、地铁及隧道内信号传输；
列车的信息传输及高速公路上无线电通讯；
电波静区内信号传输。

- Buildings;
- Mines, subways and tunnels;
- Travelers Information Stations/Highway Advisory Radio;
- Uncovered area by antennas.



产品结构 CABLE CONSTRUCTION





50 OHMS RADIATING COAXIAL CABLES

Hansen

50 欧姆漏泄同轴电缆

结构性能参数 SPECIFICATIONS

		1-5/8"		1-1/4"	7/8"	1/2"		3/8"
		-1	-2			-1	-2	
结构参数 Physical Dimensions								
内导体 Inner Conductor	材料 Material	皱纹铜管 Corrugated Cu-tube		光滑铜管 Smooth Cu-tube		铜包铝 CCA		
	外径 Diameter (mm)	17.30		13.10	9.05	4.80		3.15
外导体 Outer Conductor	外径 Diameter (mm)	46.50		35.80	24.90	13.80		9.53
外护套 * Jacket	厚度 Thickness (mm)	1.75		1.80	1.30	1.00		0.85
	外径 Diameter (mm)	50.00		39.40	27.50	15.80		11.20
机械性能 Mechanical Characteristics								
最小弯曲半径(十次) Min. Bending Radius(10) (mm)		510		400	280	125		95
最大拉伸力 Max. Pulling Strength (N)		3630		5900	1470	1130		800
电气性能 Electrical Characteristics								
标准电容 Nominal Capacitance (pF/m)		76		75	76.1	75.8		75
阻抗 Characteristic Impedance (Ω)				50 ± 1				
传输速率 Velocity Ratio (%)		88		89	89	88		88
最大衰减 Attenuation (20℃) (dB/100m)	150MHz	0.80	1.00	1.30	1.80	3.30	3.60	4.90
	450MHz	2.00	2.50	3.00	3.60	6.60	8.20	8.50
	900MHz	2.70	3.30	4.00	5.10	9.50	11.80	12.10
	1800MHz	4.40	5.10	5.60	7.60	13.10	16.10	17.40
	2400MHz	---	---	6.90	9.20	15.70	19.00	----
耦合衰减 * Coupling Loss (2m) (dB ± 10dB)	150MHz	71	60	64	62	58	52	56
	450MHz	80	67	75	72	63	57	61
	900MHz	79	68	77	72	68	63	68
	1800MHz	89	78	84	84	73	69	74
	2400MHz	---	---	76	76	73	69	----
电压驻波比 (VSWR)		0.01GHz — 3GHz			≤ 1.30			

* 注：外护套可根据用户要求采用低烟、无卤阻燃 PE（经权威机构检测，已达到 UL1581—1990 燃烧试验标准。）

NOTE: Fire-Retardency PE outer sheath can be available per customer's requirement.

* 注：表中耦合衰减值是按 IEC1196-4 方法得到的统计值，该值对应的接收可能性为 50%。

NOTE: The value of coupling loss in the above table is attained according to IEC1196-4 specification. The statistical median is 50% the true value of coupling.



BRAIDING-TYPE 50 OHMS COAXIAL CABLE

Hansen

50 欧姆编织型同轴电缆

产品简介 PRODUCT INTRODUCTION

汉胜 50 欧姆编织型同轴电缆系汉胜在多年设计制造编织型同轴电缆的基础上，引进欧美先进设备研制生产。该电缆电气特性优良，其编织型结构更柔软，施工十分方便，已大批量出口至欧美发达国家。

With a solid foundation in designing and manufacturing of braiding-type coaxial cables, Hansen produced braiding-type 50ohms coaxial cable with advanced machines imported from Europe. Excellent electrical performances, more flexible braiding layer and ease for installation, the products are exported to developed countries in Europe and U.S..



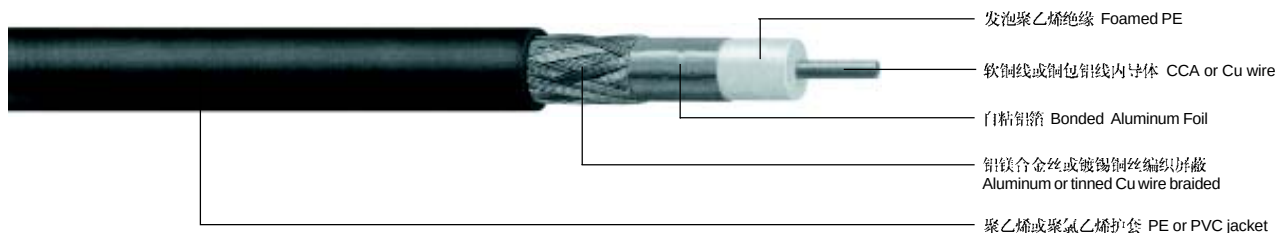
适用范围 APPLICATIONS

- 地面移动通讯及无线电通讯天线馈线
- 地面基站用天线跳线
- 机房用馈线及天线连接线
- 军用数据信息传输线
- 超低频、调幅及调频无线电广播系统
- 地面微波通讯
- 航空及航海用雷达系统
- 战略等便携式通讯系统
- 其它

They provide outstanding performances for a wide variety of applications such as:

- Land mobile and cellular radio;
- Earth station antenna jumper cables;
- Jumpers for equipments room and antenna connection;
- Military data links;
- VLF, AM and FM radio broadcast systems;
- Point-to-point terrestrial microwave;
- Airborne and shipboard radar systems;
- Tactical, restoration and portable communication systems;
- Others.

产品结构 CABLE CONSTRUCTION





BRAIDING-TYPE 50 OHMS COAXIAL CABLE

50 欧姆编织型同轴电缆

结构性能参数 SPECIFICATIONS

	12D-FB	10D-FB	8D-FB	7D-FB	5D-FB	RG-8/U
结构参数 Physical Dimensions						
内导体 Inner Conductor (Dia.mm)	4.40	3.50	2.80	2.60	1.80	2.743
绝缘体 Dielectric (Dia.mm)	12.40	10.00	7.80	7.30	5.00	7.366
外导体 Outer Conductor (Dia.mm)	13.40	11.00	8.80	8.20	5.90	8.15
外护套 Jacket (Dia.mm)	15.60	13.00	10.40	9.80	7.50	10.16
电气性能 Electrical Characteristics						
最大衰减 Attenuation (20℃) (dB/100m)	150MHz	3.40	4.10	4.90	5.30	5.24
	280MHz	4.70	5.60	7.00	7.30	7.16
	350MHz	6.30	6.30	8.10	8.30	8.03
	400MHz	5.80	6.90	8.80	9.10	8.62
	800MHz	8.50	10.20	13.10	13.00	12.47
	900MHz	9.20	11.10	14.00	14.30	13.44
	1200MHz	10.90	13.40	16.70	17.00	15.60
	1500MHz	12.30	15.30	19.20	19.70	17.63
	1900MHz	14.30	17.70	22.20	22.90	21.00
内导体电阻 Inner Conductor Resistance Ω/km, <	1.17	1.86	2.92	3.41	7.05	3.04
绝缘电阻 Insulation Resistance MΩ·km, ≥	5000					
耐电压 AC V/min. ≥	1000					
特性阻抗 Characteristic Impedance Ω	50 ± 2					
回波损耗 Echo Loss dB ≥	VHF	20				
	UHF	18				

