
	产品名称 Part Name	客户编码 Customer P/N	版本 Version	发布日期 Issue Date
	1-2" (PE) (41010300009)		V1.0	2021-04-12




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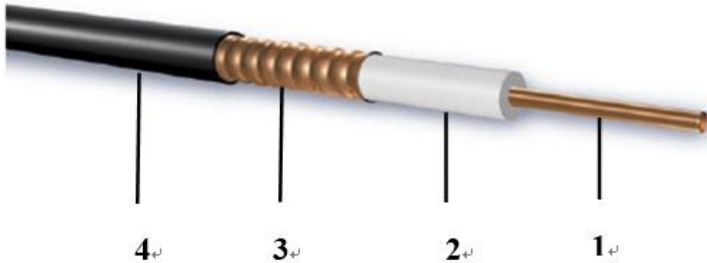
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1 产品结构和描述 Overall Structure and Description

产品截面图 Section Drawing




结构和描述 Structure and Description

序号 NO.	部件 Construction	材料 Material	尺寸 (毫米) Diameter (mm)
1	内导体 Inner Conductor	铜包铝 Copper Clad Aluminum	4.80±0.05mm
2	绝缘 Insulation	物理发泡聚乙烯 Foam PE	12.2±0.20mm
3	外导体 Outer Conductor	波纹铜管 Corrugated copper	Outer Conductor Diameter: 13.90±0.25mm Outer Conductor Outside Bottom Diameter: Nom12.2mm Outer Conductor Pitch: 5.10±0.25mm
4	外护套 Outer Jacket	黑色聚乙烯 Black PE	15.70±0.20mm (Normal Thickness: 0.7mm; Min. Thickness: 0.50mm)
5	印字 Marking	KINGSIGNAL HCAAY-50-12 (1/2") MMDDYY-TTTT-N *****M	
6	备注 Remark	<p>1. The surface markings words of the cable which should accord with the corresponding regulation of the standard GB6995.1 (eqv. IEC 60304) should be clear and natty, have no overprint and lack of printing. The marking words which color should not be transferred should be affixed with the cable jacket tightly.</p> <p>2. The surface markings words should be so clear to identify when they are wiped 10 times gently by water-immersed absorbent cotton or cotton.</p>	

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2 电气性能 Electrical Characteristics

序号 NO.	性能参数 Parameter	限值 Vaule		
1	内导体直流电阻 Inner conductor DC resistance	$\leq 1.62\Omega/\text{km}$ @ 20°C		
2	外导体直流电阻 Outer conductor DC resistance	$\leq 3.3\Omega/\text{km}$ @ 20°C		
3	绝缘电阻 (M Ω .km at 20 °C) Insulation Resistivity (M Ω .km at 20 °C)	≥ 10000		
4	介质电压(1 minute, V DC) Dielectric Strength (1 minute, V DC)	6000 (No Crack)		
5	特性阻抗 Characteristic Impedance	$50 \pm 2 \Omega$ (DC~6GHz)		
6	互电容 (参考) Mutual Capacitance (reference)	76pF/m		
7	屏蔽效率 Shielding Effectiveness	$\geq 120\text{dB}$ (30~1000MHz)		
8	相对传输速率 (典型值) Relative Propagation Velocity (Typical)	87%		
9	三阶互调 Intermodulation 3rd order	<-115dBm (910MHz、1800MHz @2*43dBm)		
10	回波损耗 (驻波比) Return Loss (VSWR)	$0.69\sim 0.96 \text{ GHz} \leq 1.15$ $1.67\text{GHz}\sim 2.2 \text{ GHz} \leq 1.15$ $2.2\text{GHz}\sim 2.7 \text{ GHz} \leq 1.20$ $3.3\text{GHz}\sim 3.8\text{GHz} \leq 1.20$ $5.0\text{GHz}\sim 5.8 \text{ GHz} \leq 1.30$		
11	衰减/Attenuation			
	频率/Frequency	衰减值/ Attenuation	频率/Frequency	衰减值/ Attenuation
	MHz	dB/100m	MHz	dB/100m
	700	6.07	3000	13.68
	900	6.99	3500	15.54
	1800	9.97	3800	16.35
	2000	10.48	4000	16.88
12	认证 Certification	The completed cable shall comply with 2006/95/EC(LVD)		

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3 物理和机械性能 Mechanical and Physical Characteristics

序号 NO.	性能参数 Parameter	限值 Vaule
1	参考重量 Reference Weight	Nom.18.0kg/100m
2	最大拉力 Max Tensile force	1130N
3	扁平压力 Flat Plate Crush Resistance	14.0N/mm
4	双85 (条件: 85°C±2°C,85%±5%,1000h) Double 85 (Conditions 85°C±2°C,85%±5%,1000h)	Result: no crack
5	最小弯曲半径 Min. Bending Radius	Single: 80mm Repeated: 125mm
6	外护套/ Outer Jacket	
6.1	老化前/ Before aging	
6.1.1	老化前护套抗拉强度 Before aging Jacket tensile strength	≥15MPa
6.1.2	老化前护套伸长率 Before aging Jacket elongation	≥500%
6.2	老化后/ After aging (Aging Condition: 100°C±2°C,240h)	
6.2.1	老化后护套抗拉强度和变化率 Aged Jacket tensile strength and variety rate	≥10Mpa, ≤±30%
6.2.2	老化后护套伸长率变化率 Aged Jacket elongation variety rate	≤±30%
6.3	耐日光老化/Sunlight aging	
6.3.1	老化后护套抗拉强度变化率(条件 300h) Aged Jacket tensile strength variety rate (Condition: 300h)	≤±15%
6.3.2	老化后护套伸长率变化率(条件 300h) Aged Jacket elongation variety rate (Condition: 300h)	≤±15%
6.3.3	老化后护套抗拉强度变化率(条件 720h) Aged Jacket tensile strength variety rate (Condition: 720h)	≤±20%
6.3.4	老化后护套伸长率变化率(条件 720h) Aged Jacket elongation variety rate (Condition: 720h)	≤±20%
7	阻燃 Flammability	NA
8	其他 Other	Other specification according to YD/T 1092.

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4 防火要求 Fire Protection Requirements

NA

5 应用环境 Application environment

序号 NO.	性能参数 Parameter	限值 Vaule
1	最低安装温度	-25°C
	Min. Installation Temperature	
2	储存温度	-55°C ~ +85°C
	Storage Temperature	
3	工作温度	-40°C ~ +85°C
	Operating Temperature	
4	工作频率范围	0~8.8GHz
	Working Frequency Range	

6 禁用和限制物质 Banned and Restricted Substances

2015/863/EU (RoHS)

Compliant

7 包装 Packages

According to customer's packaging specifications.

8 参考文件 References

YD/T 1092

9 适用的产品编码和描述 Applicable P/N and description

1-2" PE 41010300009

10 修订履历 Revision History

版本 Version	修订内容 Description	制订 Prepared By	审核 Checked By	批准 Approved By
1.0	第一版 First Version	黄奇平 Qiping.Huang	/	王谦 Roy.Wang
		2021/04/12	/	2021/04/12