

|                                                                                   |                           |                      |               |                    |
|-----------------------------------------------------------------------------------|---------------------------|----------------------|---------------|--------------------|
|  | 产品名称 Part Name            | 客户编码<br>Customer P/N | 版本<br>Version | 发布日期<br>Issue Date |
|                                                                                   | KSR500（PVC） Coaxial Cable |                      | V1.0          | 2024/09/24         |



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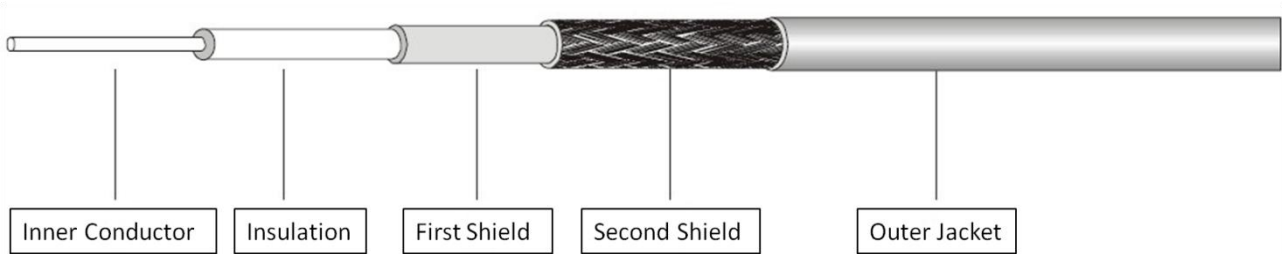
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1 产品结构和描述 Overall Structure and Description

产品截面图 Section Drawing



结构和描述 Structure and Description

| 序号<br>NO. | 部件<br>Construction     | 材料<br>Material                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 尺寸（毫米）<br>Diameter (mm/in)  |
|-----------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| 1         | 内导体                    | 铜包铝线                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3.61±0.03                   |
|           | Inner Conductor        | Copper clad aluminium                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                             |
| 2         | 绝缘                     | 物理发泡聚乙烯                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 9.40±0.25                   |
|           | Insulation             | Foam PE                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                             |
| 3         | 第一层屏蔽                  | 自粘铝箔                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | /                           |
|           | 1 <sup>st</sup> Shield | Bonded aluminum foil                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                             |
| 3         | 第二层屏蔽                  | 镀锡铜包铝合金                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Nom. 10.29,   ≥86% coverage |
|           | 2 <sup>st</sup> Shield | TCCAA Wire                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             |
| 4         | 外护套                    | 聚氯乙烯（黑色）                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12.70±0.30                  |
|           | Outer Jacket           | PVC（black）                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                             |
| 5         | 印字                     | <b>KINGSIGNAL KSR500（PVC）</b> 50 OHM COAXIAL CABLE MMDDYY-TTTT-N<br>*****M                                                                                                                                                                                                                                                                                                                                                                                               |                             |
|           | Marking                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             |
| 7         | 备注                     | 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.<br>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. |                             |
|           | Remark                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                             |

|                                                                                   |                           |                      |               |                    |
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2 电气性能 Electrical Characteristics

| 序号<br>NO. | 性能参数 Parameter                                                              |                  | 限值 Vaule              |
|-----------|-----------------------------------------------------------------------------|------------------|-----------------------|
| 1         | 电容                                                                          |                  | Nom.78 pF/m           |
|           | Capacitance                                                                 |                  |                       |
| 2         | 护套电火花测试( V AC)                                                              |                  | 8000（No Crack）        |
|           | Jacket Spark test(V AC)                                                     |                  |                       |
| 3         | 特性阻抗                                                                        |                  | 50±2 Ω                |
|           | Characteristic Impedance                                                    |                  |                       |
| 4         | 相对传输速率（典型值）                                                                 |                  | 86%                   |
|           | Relative Propagation Velocity (Typical)                                     |                  |                       |
| 5         | 绝缘电阻 （M Ω ·km）                                                              |                  | 5000                  |
|           | Dielectric resistance                                                       |                  |                       |
| 6         | 回波损耗                                                                        |                  | 30~3000MHz ≤-20.8dB   |
|           | Return Loss                                                                 |                  | 3300~6000MHz ≤-18.2dB |
| 7         | 衰减/Attenuation                                                              |                  |                       |
|           | 频率/Frequency                                                                | 衰减值/ Attenuation |                       |
|           | MHz                                                                         | dB/100m          |                       |
|           | 30 MHz                                                                      | 1.97             |                       |
|           | 50MHz                                                                       | 2.30             |                       |
|           | 150MHz                                                                      | 3.94             |                       |
|           | 220MHz                                                                      | 4.92             |                       |
|           | 450MHz                                                                      | 7.22             |                       |
|           | 900MHz                                                                      | 10.17            |                       |
|           | 1500MHz                                                                     | 13.45            |                       |
|           | 1800MHz                                                                     | 15.09            |                       |
|           | 2000MHz                                                                     | 15.75            |                       |
|           | 2500MHz                                                                     | 18.04            |                       |
|           | 3000 MHz                                                                    | 20.01            |                       |
|           | 5800MHz                                                                     | 30.42            |                       |
|           | 6000MHz                                                                     | 31.05            |                       |
|           | Nominal attenuation at 20°C cable temperature（typical）. Maximum value + 5%. |                  |                       |

|                                                                                   |                           |                      |               |                    |
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3 物理和机械性能 Mechanical and Physical Characteristics

| 序号<br>NO. | 性能参数 Parameter      | 限值 Vaule        |
|-----------|---------------------|-----------------|
| 1         | 最小弯曲半径              | Single: 31.8m   |
|           | Min. Bending Radius | Repeated: 127mm |
| 2         | 护套抗拉强度              | ≥12.5Mpa        |
|           | Jacket Tensile      |                 |
| 3         | 护套伸长率               | ≥150%           |
|           | Jacket Elongation   |                 |

4 防火要求 Fire Protection Requirements

无 No requirement

5 应用环境 Application environment

| 序号<br>NO. | 性能参数 Parameter                | 限值 Vaule     |
|-----------|-------------------------------|--------------|
| 1         | 最低安装温度                        | -20℃         |
|           | Min. Installation Temperature |              |
| 2         | 储存温度                          | -25℃ to +70℃ |
|           | Storage Temperature           |              |
| 3         | 工作温度                          | -25℃ to +70℃ |
|           | Operating Temperature         |              |

6 禁用和限制物质 Banned and Restricted Substances

2011/65/EU (EU)&2015/863 Compliant

7 包装 Packages

According to Kingsignal packaging specifications.

8 参考文件 References

NA

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

KSR500(PVC)

10 修订履历 Revision History

| 版本<br>Version | 修订内容<br>Description | 制订<br>Prepared By | 审核<br>Checked By | 批准<br>Approved By |
|---------------|---------------------|-------------------|------------------|-------------------|
| 1.0           | 第一版                 | HQP               | /                | Roy               |
|               | First version       | 2024/09/24        | /                | 2024/09/24        |