

41010300037 1/2 馈线规格书
41010300037 1/2 Corrugated cable Specification



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目 录

Contents

1 基本要求 Basic Requirement.....	4
2 外观/结构 Appearance/ Construction.....	4
3 类型和规格 Type and Spec.....	4
4 电气性能 Electrical Characteristicsnce.....	5
5 物理、机械性能 Mechanical and Physical Characteristics.....	6
6 包装存储运输要求 Packaging, Storage, Transportation.....	7
7 产品应用 Application.....	8



1 基本要求 Basic Requirement

工作温度范围 Working temperature range	-40℃~85℃
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2 外观/结构 Appearance/ Construction

2.1 轮廓图 Outline Drawing



3 类型和规格 Type and Spec

3.1 内导体 Inner Conductor

材料 Material: 铜包铝线 Copper clad aluminum

内导体直径 (包含公差) Inner Conductor Diameter (with tolerance): 4.77mm±0.02mm

3.2 绝缘体 Insulation

材料 Material: 发泡聚乙烯 Foam PE

绝缘体直径 (包含公差) Insulation Diameter (with tolerance): 12.10mm±0.20mm

3.3 外导体 Out Conductor

材料 Material: 环纹铜管 Corrugated Copper Tube

外导体直径 (包含公差) Outer Conductor Diameter (with tolerance): 13.75mm±0.15mm

螺距 Pitch: 5.20mm±0.20mm

3.4 外护套 Outer Jacket

材料 Material: 低烟无卤聚烯烃 LSZH

外护套直径 (包含公差) Outer Jacket Diameter(with tolerance): 15.20mm±0.20mm

外护套颜色 Outer Jacket Color:黑 Black

厚度 Thickness: 0.73mm



4 电气性能 Electrical Characteristics

4.1 绝缘电阻 Insulation Resistance

10000 MΩ.km

4.2 介质耐压 Dielectric Strength

6.0KV

4.3 特性阻抗 Characteristic Impedance

50Ω±2Ω

4.4 电容 Capacitance

Nom.76pF/m

4.5 传输速率 Velocity

88%

4.6 护套耐压 Jacket Spark Test Voltage

8.0KV

4.7 驻波比 VSWR

820-960MHz VSWR≤1.20

1700-1880MHz VSWR≤1.20

1880-2180MHz VSWR≤1.20

2300-2500MHz VSWR≤1.20

2500-2700MHz VSWR≤1.20

4.8 海平面 20℃下衰减 Attenuation@20℃and Sea Level

Freq(MHz)	Typical Attenuation (dB/100m)
150	3.00
450	5.32
800	7.22
900	7.70
1800	11.23
2000	11.90
2200	12.55
2400	13.17
2500	13.48
2700	14.07
3000	14.93
5800	21.82



5 物理、机械性能 Mechanical and Physical Characteristics

5.1 最小单次弯曲半径 Min. Single Bending Radius

80mm

5.2 最小重复弯曲半径 Min. Repeated Bending Radius

125mm

5.3 护套抗拉强度/Jacket Tensile

≥10Mpa

5.4 护套伸长率 Jacket Elongation

≥150%

5.5 环保 ROHS/REACH

Yes

6.包装存储运输要求 Packaging, Storage, Transportation

6.1 包装 500 米/盘 500m/roller

6.2 存储温度为 10℃~+35℃，相对湿度≤80%，周围空气中无酸性、碱性等腐蚀性气体。

Temperature 10 °C ~ +35 °C, relative humidity ≤ 80%, the surrounding air without acid, alkaline and other corrosive gases

6.3 运输搬运过程中不要剧烈振动或碰撞。

Don't be violent vibration and impact during transportation or carrying.

7.产品应用 Application

通信基站天馈系统 Telecommunications antenna feed system。