

## 412M

412无缝铝管自承电缆，黑色PE护套。

412 Seamless Aluminum Tube Cable With Messenger, Black PE Jacket.



### 材料特性 Material Specification

|                                      |                             |               |
|--------------------------------------|-----------------------------|---------------|
| 内导体 Inner Conductor                  | 铜包铝 Copper Clad Aluminum    | 2.24±0.03 mm  |
| 绝缘 Dielectric                        | 发泡聚乙烯 Foam Polyethylene     | 9.19±0.10 mm  |
| 外导体 Outer Conductor                  | 挤压铝管 Extruded Aluminum Tube | 10.46±0.10 mm |
| 吊线 Messenger Wire                    | 镀锌钢丝 Galvanized Steel       | 2.10±0.03 mm  |
| 护套 Jacket                            | 聚乙烯 PE                      | 11.99±0.20 mm |
| 外导体厚度 Outer Conductor Thickness, nom | —                           | 0.64 mm       |
| 护套厚度 Jacket Thickness ,min           | —                           | 0.51 mm       |

### 电气特性 Electrical Specification

|   |            |            |
|---|------------|------------|
| 特性阻抗 Characteristic Impedance               | 75±2 Ω     |            |
| 传输速率 Velocity of Propagation                | 87%        |            |
| 电容 Capacitance                              | 50.2 PF/m  |            |
| 护套火花试验电压 Jacket Spark Test Voltage          | 5 KV       |            |
| 工作频率 Operating Frequency Band               | 5-1002 MHz |            |
| 内导体直流电阻 DC Resistance, Inner Conductor, max | 7.12 Ω/km  | 2.17 Ω/kft |
| 外导体直流电阻 DC Resistance, Out conductor, max   | 1.77 Ω/km  | 0.50 Ω/kft |
| 环路直流电阻 DC Resistance, Loop , max            | 8.89 Ω/km  | 2.67 Ω/kft |
| 结构回波损耗 SRL min                              | 5-1002 MHz | 30 dB      |

### 机械特性 Mechanical Specifications

|                             |          |
|-----------------------------|----------|
| 护套抗拉 Jacket Tensile, min    | 10.3 MPa |
| 护套延伸 Jacket Elongation, min | 400%     |

### 环境特性 Environmental Specifications

|                               |             |
|-------------------------------|-------------|
| 安装温度 Installation Temperature | -55°C~+85°C |
| 工作温度 Operating Temperature    | -40°C~+60°C |
| 贮存温度 Storage Temperature      | -55°C~+85°C |
| RoHS 2011/65/EU               | Compliant   |

### 衰减 Attenuation @ 20°C max

| Frequency, MHz | dB/100ft | dB/100m | Frequency, MHz | dB/100ft | dB/100m |
|----------------|----------|---------|----------------|----------|---------|
| 5              | 0.20     | 0.66    | 400            | 1.91     | 6.27    |
| 55             | 0.68     | 2.23    | 450            | 2.05     | 6.72    |
| 211            | 1.35     | 4.43    | 500            | 2.16     | 7.08    |
| 250            | 1.49     | 4.89    | 550            | 2.26     | 7.41    |
| 270            | 1.55     | 5.09    | 600            | 2.37     | 7.76    |
| 300            | 1.64     | 5.38    | 750            | 2.68     | 8.79    |
| 330            | 1.73     | 5.67    | 870            | 2.91     | 9.54    |
| 350            | 1.78     | 5.84    | 1002           | 3.13     | 10.27   |