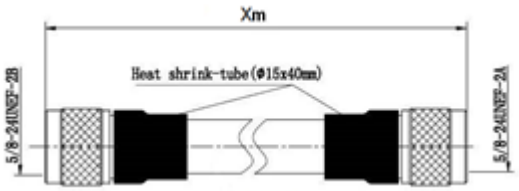
# Ø10mm RF Cable | External Antenna Connection

## Specifications

| Electrical | | |
|---|---|---|
| Length | 2 m | 3 m |
| VSWR (Max.) | 1.2 | 1.2 |
| Loss (Cable Only)[1] | 2 m | 3 m |
| Loss @900 MHz, dB | 0.256 | 0.384 |
| Loss @2 GHz, dB | 0.392 | 0.588 |
| Loss @2.5 GHz, dB | 0.444 | 0.666 |
| Loss @5.8 GHz, dB | 0.710 | 1.065 |
| Loss (with 2 Connectors)[1] | 2 m | 3 m |
| Loss @900 MHz, dB | 0.556 | 0.684 |
| Loss @2 GHz, dB | 0.692 | 0.888 |
| Loss @2.5 GHz, dB | 0.744 | 0.966 |
| Loss @5.8 GHz, dB | 1.010 | 1.365 |
| Impedance | 50 Ω (Nominal) | |
| Frequency Range | DC to 6 GHz (Max.) | |
| Dielectric Withstanding Voltage | 2,000 V (rms) | |
| Insulation Resistance | 5,000 MΩ (Min.) | |
| **Mechanical** | | |
| Durability | 500 Cycles (Min.) | |
| Temperature | -45°C to +85 °C (Cable) | |
| Bending Radius | 25.4 mm (Min.) | |
| **Cabling** | | |
| Conductor | Copper Clad Aluminum, 1 Core, Ø2.74 mm | |
| Insulation | PEF, Thickness 2.2 mm, Outer Ø7.24 mm | |
| Binder | Sealed Aluminum Mylar Tape | |
| Braid Shield | Aluminum Alloy Wire, 85%↑ Coverage | |
| Jacket | PVC or PE, Outer Ø10.3±0.25 mm | |
| **Connector** | | |
| Body | Brass, Ni or Tri-alloy Surface Plating | |
| Center Conductor | Brass, Au or Ag Surface Plating | |
| Insulator | PTFE | |
| Other | Brass, Ni Surface Plating | |
| **Certification(s)** | | |
| IEC | IEC 60169-16 | |



**Diagram**




| Ordering Information |
|---|
| Part Number: GE.CA-N002-00 |
| 2m Ø10mm RF Cable with 2 N-male Connectors |
| Part Number: GE.CA-N003-00 |
| 3m Ø10mm RF Cable with 2 N-male Connectors |
| Please contact us for other cable lengths. |

[1]the loss values have tolerance of up to 0.4 dB

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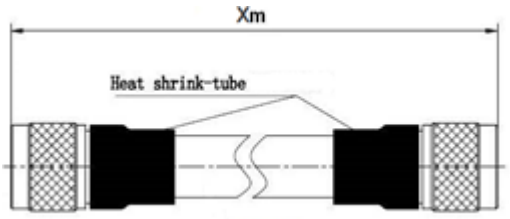
# Ø5mm RF Cable | External Antenna Connection

## Specifications

| Electrical | |
|---|---|
| Length | 1 m |
| VSWR (Max.) | 1.20 (0 to 3 GHz); 1.35 (3 to 6 GHz) |
| Loss (Cable Only)[1] | |
| Loss @900 MHz, dB | 0.326 |
| Loss @2 GHz, dB | 0.393 |
| Loss @2.5 GHz, dB | 0.554 |
| Loss @5.8 GHz, dB | 0.865 |
| Loss (with 2 Connectors)[1] | |
| Loss @900 MHz, dB | 0.626 |
| Loss @2 GHz, dB | 0.793 |
| Loss @2.5 GHz, dB | 0.854 |
| Loss @5.8 GHz, dB | 1.165 |
| Impedance | 50 Ω (Nominal) |
| Frequency Range | DC to 6 GHz (Max.) |
| Dielectric Withstanding Voltage | 2,000 V (rms) |
| Insulation Resistance | 5,000 MΩ (Min.) |
| **Mechanical** | |
| Durability | 500 Cycles (Min.) |
| Temperature | -45°C to +85 °C (Cable) |
| Bending Radius | 12.7 mm (Min.) |
| **Cabling** | |
| Conductor | Bare Copper Wire, 1 Core, Ø1.12 mm |
| Insulation | PEF, Outer Ø2.95 mm |
| Binder | Sealed Aluminum Mylar Tape |
| Braid Shield | Tinned Copper Wire, 88%↑ Coverage |
| Jacket | PVC or PE, Outer Ø5 mm |
| **Connector** | |
| Body | Brass, Ni or Tri-alloy Surface Plating |
| Center Conductor | Brass, Au or Ag Surface Plating |
| Insulator | PTFE |
| Other | Brass, Ni Surface Plating |
| **Certification(s)** | |
| IEC | IEC 60169-16 |



**Diagram**




| Ordering Information |
|---|
| Part Number: GE.CA-N001-01 |
| 1m Ø5mm RF Cable with 2 N-male Connectors |
| Please contact us for other cable lengths. |

[1]the loss values have tolerance of up to 0.4 dB

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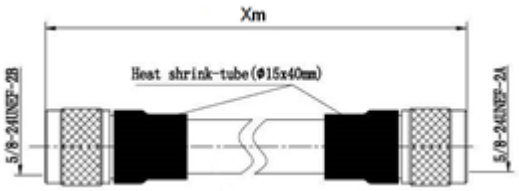
# Ø10mm RF Cable (LMR400) | External Antenna Connection

## Specifications

| Electrical | | | |
|---|---|---|---|
| | | | **Special Item** |
| Length | 2 m | 3 m | 5m |
| VSWR (Max.) | 1.2 | 1.2 | 1.2 |
| Loss (Cable Only)[1] | 2 m | 3 m | 5 m |
| Loss @900 MHz, dB | 0.256 | 0.384 | 0.640 |
| Loss @2 GHz, dB | 0.392 | 0.588 | 0.980 |
| Loss @2.5 GHz, dB | 0.444 | 0.666 | 1.110 |
| Loss @5.8 GHz, dB | 0.710 | 1.065 | 1.775 |
| Loss (with 2 Connectors)[1] | 2 m | 3 m | 5 m |
| Loss @900 MHz, dB | 0.556 | 0.684 | 0.940 |
| Loss @2 GHz, dB | 0.692 | 0.888 | 1.280 |
| Loss @2.5 GHz, dB | 0.744 | 0.966 | 1.410 |
| Loss @5.8 GHz, dB | 1.010 | 1.365 | 2.075 |
| Impedance | 50 Ω (Nominal) | | |
| Frequency Range | DC to 6 GHz (Max.) | | |
| Dielectric Withstanding Voltage | 2,000 V (rms) | | |
| Insulation Resistance | 5,000 MΩ (Min.) | | |
| **Mechanical** | | | |
| Durability | 500 Cycles (Min.) | | |
| Temperature | -45°C to +85 °C (Cable) | | |
| Bending Radius | 25.4 mm (Min.) | | |
| **Cabling** | | | |
| Conductor | Copper Clad Aluminum, 1 Core, Ø2.74 mm | | |
| Insulation | PEF, Thickness 2.2 mm, Outer Ø7.24 mm | | |
| Binder | Sealed Aluminum Mylar Tape | | |
| Braid Shield | Aluminum Alloy Wire, 85%↑ Coverage | | |
| Jacket | PVC or PE, Outer Ø10.3±0.25 mm | | |
| **Connector** | | | |
| Body | Brass, Ni or Tri-alloy Surface Plating | | |
| Center Conductor | Brass, Au or Ag Surface Plating | | |
| Insulator | PTFE | | |
| Other | Brass, Ni Surface Plating | | |
| **Certification(s)** | | | |
| IEC | IEC 60169-16 | | |



**Diagram**




| Ordering Information |
|---|
| **Part Number: GE.CA-N002-04** |
| 2m Ø10mm RF Cable with 2 N-male Connectors - using Times Microwave Systems LMR400 Cable |
| **Part Number: GE.CA-N003-04** |
| 3m Ø10mm RF Cable with 2 N-male Connectors - using Times Microwave Systems LMR400 Cable |
| **Part Number: GE.CA-N005-04** |
| 5m Ø10mm RF Cable with 2 N-male Connectors - using Times Microwave Systems LMR400 Cable |
| Please contact us for other cable lengths. |

[1]the loss values have tolerance of up to 0.4 dB

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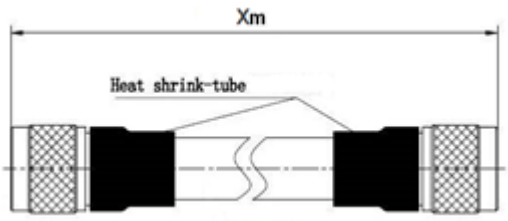
# Ø5mm RF Cable (LMR200) | External Antenna Connection

## Specifications

| Electrical | | | |
|---|---|---|---|
| | | | **Special Item** |
| Length | 1 m | 2 m | 3m |
| VSWR (Max.) | 1.20 (0 to 3 GHz); 1.35 (3 to 6 GHz) | | |
| Loss (Cable Only)[1] | 1 m | 2 m | 3m |
| Loss @900 MHz, dB | 0.326 | 0.652 | 0.978 |
| Loss @2 GHz, dB | 0.393 | 0.986 | 1.479 |
| Loss @2.5 GHz, dB | 0.554 | 1.108 | 1.662 |
| Loss @5.8 GHz, dB | 0.865 | 1.730 | 2.593 |
| Loss (with 2 Connectors)[1] | 1 m | 2 m | 3m |
| Loss @900 MHz, dB | 0.626 | 0.952 | 1.278 |
| Loss @2 GHz, dB | 0.793 | 1.286 | 1.779 |
| Loss @2.5 GHz, dB | 0.854 | 1.408 | 1.962 |
| Loss @5.8 GHz, dB | 1.165 | 2.030 | 2.895 |
| Impedance | 50 Ω (Nominal) | | |
| Frequency Range | DC to 6 GHz (Max.) | | |
| Dielectric Withstanding Voltage | 2,000 V (rms) | | |
| Insulation Resistance | 5,000 MΩ (Min.) | | |
| **Mechanical** | | | |
| Durability | 500 Cycles (Min.) | | |
| Temperature | -45°C to +85 °C (Cable) | | |
| Bending Radius | 12.7 mm (Min.) | | |
| **Cabling** | | | |
| Conductor | Bare Copper Wire, 1 Core, Ø1.12 mm | | |
| Insulation | PEF, Outer Ø2.95 mm | | |
| Binder | Sealed Aluminum Mylar Tape | | |
| Braid Shield | Tinned Copper Wire, 88%↑ Coverage | | |
| Jacket | PVC or PE, Outer Ø5 mm | | |
| **Connector** | | | |
| Body | Brass, Ni or Tri-alloy Surface Plating | | |
| Center Conductor | Brass, Au or Ag Surface Plating | | |
| Insulator | PTFE | | |
| Other | Brass, Ni Surface Plating | | |
| **Certification(s)** | | | |
| IEC | IEC 60169-16 | | |



**Diagram**




**Ordering Information**

**Part Number: GE.CA-N001-02**

1m Ø5mm RF Cable with 2 N-male Connectors
- using Times Microwave Systems LMR200 Cable

**Part Number: GE.CA-N002-02**

2m Ø5mm RF Cable with 2 N-male Connectors
- using Times Microwave Systems LMR200 Cable

**Part Number: GE.CA-N003-02**

3m Ø5mm RF Cable with 2 N-male Connectors
- using Times Microwave Systems LMR200 Cable

Please contact us for other cable lengths.

[1]the loss values have tolerance of up to 0.4 dB

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# RF Lightning Protector 0-6GHz | Special Item

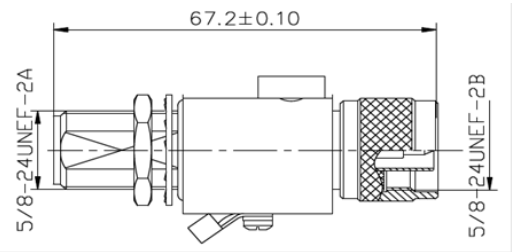
## Protecting AN Device from Surging Through Antenna Port

## Specifications

| Electrical | |
|---|---|
| Surge Protector Type | Gas Tube |
| Frequency Range | 0 to 6 GHz |
| Impedance | 50 Ω |
| VSWR | 1.3:1 (Max.) |
| Insertion Loss | 0.4 dB (Max.) |
| Gas Tube Breakdown Voltage | 230 V |
| Surge Current | 10 kA |
| **Mechanical** | |
| Connectors | N-male to Bulkhead N-female |
| Connector Body Material | Nickel Plated Brass |
| Body Material | Nickel Plated Brass |
| Pin Material | Gold Plated Brass |
| O-ring Material | Rubber |
| **Environmental** | |
| Temperature | -55 to 155 degree C (Operating) |
| Ingress Protection | IP67 |
| Compliance | RoHS |



**Diagram**




| Ordering Information |
|---|
| Part Number: GE.CA-LP06-00 |
| External RF Lightning Protector 0-6GHz<br>- IP67, 10kA Surge Current, Multi-strike Capability, 230V Gas Tube Breakdown Voltage, N-male to N-female |

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# RF Lightning Protector 2-6GHz | Special Item

## Protecting AN Device from Surging Through Antenna Port

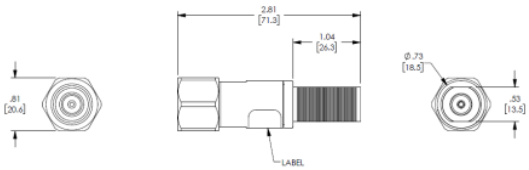
## Specifications

| Overview |
|---|
| RF Lightning Protector (also known as lightning arrestor) utilizing a patented DC shorted filter design enables an almost instantaneous response to a lightning surge to protect critical hardware such as X20 and X30 series Anywhere Network Nodes while maintaining the RF performance. This RF lightning protector component is manufactured in a coaxial in-line design with wide operating frequency range. |
| **Features** |
| Surge current up to 10kA |
| Maximum power 10W |
| Frequency range from 2GHz to 6GHz |
| N-type female connectors |
| Waterproof IP67 rated |
| DC Block |
| VSWR < 1.3 : 1 |
| Multi-strike capability |
| CE and RoHS compliant |

| **Electrical** | |
|---|---|
| Surge Protector Type | Surge Filter |
| DC Handling | DC Block |
| Frequency Range | 2 to 6 GHz |
| Impedance | 50 Ω |
| VSWR | 1.3:1 (Max.); 1.2:1 (Typ.) |
| Return Loss | 20 dB (Typ.) |
| Insertion Loss | 0.2 dB (Max.); 0.1 dB (Typ.) |
| Input Power, CW | 10 W |
| Surge Current | 10 kA (IEC 61000-4-5 8/20 μs Waveform) |
| Throughput Energy | 0.5 μJ (For 3 kA@8/20μs Waveform) |
| **Mechanical** | |
| Input Connector | N-female |
| Output Connector | N-male |
| **Environmental** | |
| Temperature | -40 to 85 degree C (Operating) |
| Ingress Protection | IP67 |
| Compliance | RoHS |



**Diagram**




| **Ordering Information** |
|---|
| Part Number: GE.CA-LP26-00 |
| External RF Lightning Protector 2-6GHz<br>- DC block, 10W, IP67, 10kA Surge Filter, Multi-strike Capability, N-male to N-female |

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