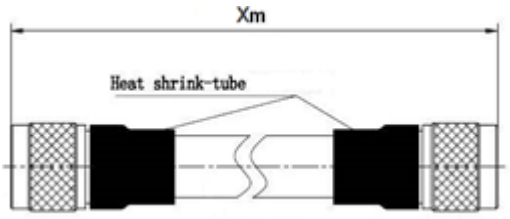
Ø5mm RF Cable | External Antenna Connection

Specifications

Electrical		
Length	2 m	3 m
VSWR (Max.)	1.20 (0 to 3 GHz); 1.35 (3 to 6 GHz)	
Loss (Cable Only)[1]	2 m	3 m
Loss @900 MHz, dB	0.652	0.978
Loss @2 GHz, dB	0.986	1.479
Loss @2.5 GHz, dB	1.108	1.662
Loss @5.8 GHz, dB	1.730	2.593
Loss (with 2 Connectors)[1]	2 m	3 m
Loss @900 MHz, dB	0.952	1.278
Loss @2 GHz, dB	1.286	1.779
Loss @2.5 GHz, dB	1.408	1.962
Loss @5.8 GHz, dB	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-N002-01
2m Ø5mm RF Cable with 2 N-male Connectors
Part Number: GE.CA-N003-01
3m Ø5mm RF Cable with 2 N-male Connectors
Please contact us for other cable lengths.

[1]the loss values have tolerance of 0.2 dB

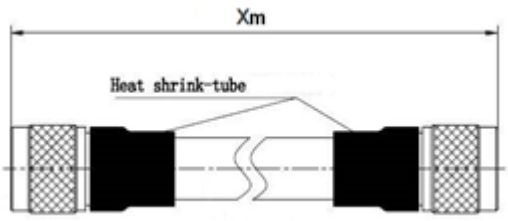
Version: 08 Jan 2020

Ø5mm RF Cable (LMR200) | External Antenna Connection

Specifications

Electrical	
Length	3 m
VSWR (Max.)	1.20 (0 to 3 GHz); 1.35 (3 to 6 GHz)
Loss (Cable Only)[1]	
Loss @900 MHz, dB	0.978
Loss @2 GHz, dB	1.479
Loss @2.5 GHz, dB	1.662
Loss @5.8 GHz, dB	2.593
Loss (with 2 Connectors)[1]	
Loss @900 MHz, dB	1.278
Loss @2 GHz, dB	1.779
Loss @2.5 GHz, dB	1.962
Loss @5.8 GHz, dB	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-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 0.2 dB

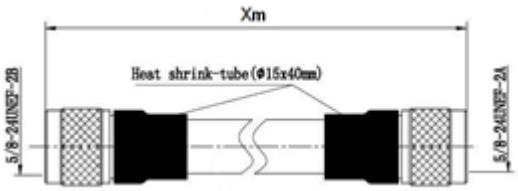
Version: 08 Jan 2020

Ø10mm RF Cable | External Antenna Connection

Specifications

Electrical			
Length	5 m	10 m	15 m
VSWR (Max.)	1.2	1.2	1.2
Loss (Cable Only)	5 m	10 m	15 m
Loss @900 MHz, dB	0.640	1.280	1.920
Loss @2 GHz, dB	0.980	1.960	2.940
Loss @2.5 GHz, dB	1.110	2.220	3.330
Loss @5.8 GHz, dB	1.775	3.550	5.325
Loss (with 2 Connectors)	5 m	10 m	15 m
Loss @900 MHz, dB	0.940	1.580	2.220
Loss @2 GHz, dB	1.280	2.260	3.240
Loss @2.5 GHz, dB	1.410	2.520	3.630
Loss @5.8 GHz, dB	2.075	3.850	5.625
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: NS.CA-N005-00
5m Ø10mm RF Cable with 2 N-male Connectors
Part Number: NS.CA-N010-00
10m Ø10mm RF Cable with 2 N-male Connectors
Part Number: NS.CA-N015-00
15m Ø10mm RF Cable with 2 N-male Connectors
Please contact us for other cable lengths.

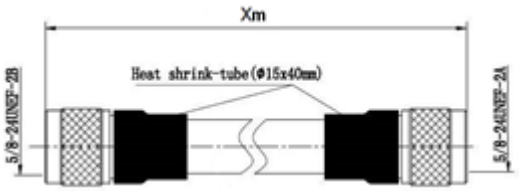
Version: 08 Jan 2020

Ø10mm RF Cable (LMR400) | External Antenna Connection

Specifications

Electrical		
Length	5 m	15 m
VSWR (Max.)	1.2	1.2
Loss (Cable Only)	5 m	15 m
Loss @900 MHz, dB	0.640	1.920
Loss @2 GHz, dB	0.980	2.940
Loss @2.5 GHz, dB	1.110	3.330
Loss @5.8 GHz, dB	1.775	5.325
Loss (with 2 Connectors)	5 m	15 m
Loss @900 MHz, dB	0.940	2.220
Loss @2 GHz, dB	1.280	3.240
Loss @2.5 GHz, dB	1.410	3.630
Loss @5.8 GHz, dB	2.075	5.625
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-N005-04
5m Ø10mm RF Cable with 2 N-male Connectors - using Times Microwave Systems LMR400 Cable
Part Number: GE.CA-N015-04
15m Ø10mm RF Cable with 2 N-male Connectors - using Times Microwave Systems LMR400 Cable
Please contact us for other cable lengths.

Version: 08 Jan 2020

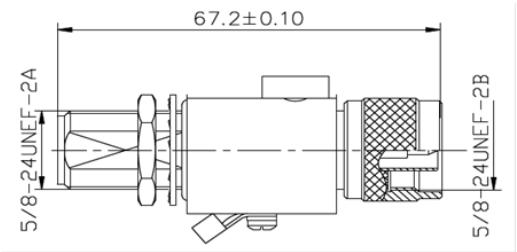
RF Lightning Protector 0-6GHz

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 - IP67, 10kA Surge Current, Multi-strike Capability, 230V Gas Tube Breakdown Voltage, N-male to N-female

Version: 08 Jan 2020

RF Lightning Protector 2-6GHz

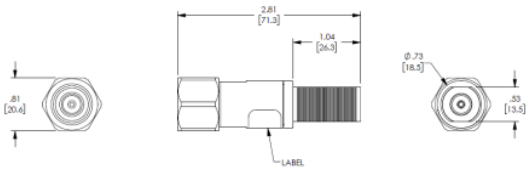
Protecting AN Device from Surging Through Antenna Port

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 - DC block, 10W, IP67, 10kA Surge Filter, Multi-strike Capability, N-male to N-female

Version: 08 Jan 2020