

Gamma Electronics offers RG142 jumper cables for in-building Distributed Antenna Systems (DAS) applications. These cables have braided shields that make the cables highly flexible for tight-area installations. Standard lengths are 18, 24, and 36 inches. They are available with 4.3-10, N or RPSMA connectors.

### Key Features:

- 50 Ohms Impedance
- Consistent V.S.W.R. performance
- RoHS Compliant
- Independently tested and labeled for critical properties and tracking number
- Robust connector protection, strain relief and torque protection
- Gamma's cold shrink easily surpass the IP68 weatherproof standard
- Special factory design and assembled jumper provide excellent electrical and mechanical performance
- High performance, corrosion resistant, factory installed connectors
- Cable jacket has a flame-retardant Fluorinated Ethylene Propylene which provides a safer network



Type N Male to Type N Male



Type N Male to Type N Female



4310 Male to Type N Female

Product Structure			
Layer	Designation	Material	Diameter, inches
A	Inner Conductor	Silver Plated Copper-clad Steel	0.037 ± 0.02
B	Dielectric	PTFE	0.118 ± 0.05
C	First Shield	Silver Plated Copper Braid	----
D	Second Shield	Silver Plated Copper Braid	0.157
E	Jacket	Brown FEP	0.195 ± 0.006

Mechanical and Electrical Specifications	
Impedance, Ohms	50
Capacitance, pF/m	105
Velocity of Propagation, %	70
Maximum Operating Voltage, Vrms	1900
Minimum Bending Radius (one time), mm	25
Minimum Bending Radius (repeated), mm	40

Attenuation @20°C and Sea Level	
Frequency, MHz	Attenuation (dB/100m)
100	14.4
400	29.4
1000	48.3
3000	89.8
5000	115.5
6000	127.5

Environmental Specifications	
Operating Temperature, °C	-55 to 200
RoHS	Compliant
Fire Performance	Fire Retardant, Plenum Rated

Assembly VSWR/Return			
Frequency Band	VSWR	Return Loss (dB)	Length
700-3000 MHz	1.152	23.02	1 meter

### Standard Assemblies

Part Number	Connector A	Cable	Connector B	Length
NM-RG142-NM-18	N Male	RG142	N Male	18
NM-RG142-NF-18	N Male	RG142	N Female	18
NM-RG142-NM-36	N Male	RG142	N Male	36
NM-RG142-NF-36	N Male	RG142	N Female	36
4310M-RG142-NF-24	4310 Male	RG142	N Female	24

Connector Type	PN
N Male	NM
N Female	NF
RPSMA Male	R1M
RPSMA Female	R1F

Ordering Information			
Connector A	Cable	Connector B	Length
NM, NF, R1M, or R1F	RG142	NM, NF, R1M, or R1F	Customer Specified

### Part Number Example:

36 inch-long Male RPSMA to Male Type N RG142 Jumper Cable: R1M-RG142-NM-036

