



> PROTECTION FOR DATA AND TELECOMMUNICATION LINES

> ATFREQ SERIES

> ATFREQ 12 BNC

Surge protection devices for coaxial cable rack



> **AT-2218 ATFREQ12 BNC:** protector in rack for 12 telecommunication lines

ATFREQ 12 BNC is a protector ready for **12 lines protection in a 19" rack**. Each device integrated into this rack, has two BNC type female coaxial connectors and a ground connection (includes adapter to allow connection from female to male).

ATFREQ SPDs are designed to be placed in series with the aerial signal cable. It should be installed **as close as possible to the equipment** to be protected.

It is designed to be inserted into a rack and protect data network cabinets. Due to its high transfer speed, it is suitable for networks **transferring a large amount of data** (aerials, wave amplifiers, wave distributors etc.).

Connection to earth is carried out using a M5 screw placed to one side of the SPD. The connection must be as direct as possible, using a suitable ring terminal and cable.

ATFREQ 12 BNC have been tested in **official and independent laboratories**, obtaining their characteristics according to relevant standards (shown in the table).

> INSTALLATION

Protection should be installed **as close as possible to the equipment**. In this particular case, we are talking about aerials, amplifiers and distributors.

If there are two pieces of equipment located in **separate buildings but linked together**, the protection must be installed on both sides of the line.

The **recommended procedure** for installation is the following:

- 1 Place the 19" rack inside the cabinet.
- 2 Lay cables from the aerial or element to be protected up to the back end of the machine.
- 3 The protected outlet must be at the front of the rack.
- 4 Bond the cabinet ground to the ground marked in the box.



Connection to earth is a must. Earthing in the whole installation must be bonded either directly or by a spark gap and resistance should be lower than 10 Ω . If the indications on this datasheet are not fulfilled during use or installation of the protectors, the protection provided by this device could be compromised.



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> TECHNICAL DATASHEET

Reference:		ATFREQ 12 BNC AT-2218
Frequency range:		0 - 1 GHz
Attenuation:		< 0.15 dB
Maximum continuous operating voltage:	U_c	70 V _{DC}
Nominal discharge current for line C2 10 kV (1.2/50 μ s) / 5 kA (8/20 μ s:	$I_n(C2)$	5 kA
Maximum discharge current (8/20 μ s wave)	I_{max}	10 kA
DC Sparkover voltage:		90 V
Exchanged power:		50 W
Impedance:	Z	50 Ω
Response time:	t_r	< 100 ns
Working temperature:	ϑ	-40 °C to +70 °C
Protector location:		Indoor
Type of connection:		Series
No. of protections:		12
Dimensions:		482 x 67 x 44 mm
Enclosure material:		Steel
Enclosure protection:		IP20
Input / output connector:		BNC
Earthing system:		M5 screw

Certificated tests according to: UNE-EN 61643-21

Relevant standards: UNE 21186, NF C 17-102, IEC 62305

> DIMENSIONS (MM)

