



> PROTECTION FOR DATA AND TELECOMMUNICATION LINES

> ATFONO SERIES

> ATFONO RJ11

Protector for telephone lines with RJ11 connection

> **AT-9104 ATFONO RJ11**: for telephone lines with RJ11 connection type.

ATFONO RJ11 is a protector with **RJ11 input and output** connectors, able to withstand nominal discharge currents of 2 kA for each line.

- > Both common and differential protection recommended for this type of line.
- > Protection for telephone lines and also for the digital and analogical equipment connected to these lines (fax, modem, etc).
- > In normal conditions, it remains inactive without affecting line operation or producing any leakages.
- > Discharge takes place in an internal encapsulated element with no external flash.
- > Very fast response time.
- > Includes 20 cm cable with RJ11 connector.

The ATFONO RJ11 protector has been tested in **official and independent laboratories**, obtaining their characteristics according to relevant standards (shown in the table).

Effective protection for **telephone lines with RJ11** connectors in modules with **tight protection**.

> INSTALLATION

It is recommended that installation is carried out **as close as possible to the equipment**. A telephone cable with a RJ11 connector has 4 wires. The ATFONO RJ11 protects these two pairs of wires **in series**.

For full protection, it must be coordinated with an ATFONO protector at the main line input.

When the 2 devices to be protected are placed in **different buildings and intercommunicated**, protectors should be placed on both sides of the line.

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

- 1 Insert the protector between the cable with RJ11 connector and the equipment to be protected.
- 2 Bond the protector to earth through the provided 'faston' type connector.



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:		ATFONO RJ11 AT-9104
Nominal voltage:	U_n	130 V _{DC}
Maximum continuous operating voltage:	U_c	220 V _{AC, DC}
Nominal discharge current per line C2 4 kV (1.2/50 μ s) / 2 kA (8/20 μ s):	$I_n(C2)$	2 kA
Protection level:	U_p	270 V
Maximum operating current:	I_L	300 mA
Series resistance:	R_s	15 Ω
Response time:	t_r	< 10 ns
Working temperature:	ϑ	-40 °C to +70 °C
Protector location:		Indoor
Type of connection:		Series (two ports)
No. of pairs protected:		2 pairs
Dimensions:		68 x 47 x 30 mm
Enclosure material:		Aluminium
Enclosure protection:		IP20
Input / output connector:		RJ11 / RJ11
Earthing system:		6 mm faston

Certificated tests according to: UNE-EN 61643-21
Relevant standards: UNE 21186, NF C 17-102, IEC 62305

> DIMENSIONS (MM)

