> PROTECTION FOR DATA AND TELECOMMUNICATION LINES

> ATLAN 12/8/4 CAT6 SERIES

> ATLAN 12/8/4 CAT6

Protector for computer network rack with category 6 wiring

> **AT-2217 ATLAN 4 CAT6**: protector in rack for 4 network category 6 lines.

> **AT-2212 ATLAN 8 CAT6**: protector in rack for 8 network category 6 lines.

> **AT-2211 ATLAN 12 CAT6**: protector in rack for 12 network category 6 lines.

> **AT-2226 ATLAN 4 CAT6 POE:** protector in rack for 4 POE (Power Over Ethernet) network category 6 lines.

> **AT-2227 ATLAN 8 CAT6 POE:** protector in rack for 8 POE (Power Over Ethernet) network category 6 lines.

> **AT-2228 ATLAN 12 CAT6 POE:** protector in rack for 12 POE (Power Over Ethernet) network category 6 lines.

ATLAN protectors are especially designed to **prevent failures in data transfer between equipment within the same network**. They protect the electronic circuit inputs of the network cards against damage due to transient currents.

ATLAN 12/8/4 is an SPD for **12, 8 and 4 protected lines**, with four pairs protected per line. This is done with a printed circuit board with **crimped input cable and RJ45 output connector**, able to withstand current up to 2 kA for each line and with a transfer speed of 250 MHz.

It is especially designed to be inserted into a rack and protect computer network distribution cabinets. Due to its high transfer speed, it is suitable for networks **transferring a large amount of data** (servers, workstations, graphic stations etc.)

Includes 50 cm category 6 output cable already crimped.

The ATLAN 12/8/4 CAT6 protector has been tested and certified in **official and independent laboratories,** obtaining their characteristics according to relevant standards (shown in the table).
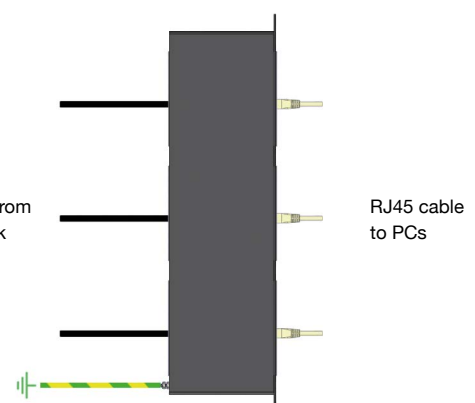
> INSTALLATION

Protection should be installed **as close as possible to the equipment**. In this particular case, we're talking about switches and hubs.

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. Screw the protectors onto the 19" rack for computer network distribution.

2. Run the network distribution lines from the hub or switch to the protector.

3. Bond the rack ground to the ground marked in the box chassis.

⚠ **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.

Cable from network

RJ45 cable to PCs

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> TECHNICAL DATASHEET

| Reference:		ATLAN 4 CAT6 **AT-2217**	ATLAN 8 CAT6 **AT-2212**	ATLAN 12 CAT6 **AT-2211**	ATLAN 4 CAT6 POE **AT-2226**	ATLAN 8 CAT6 POE **AT-2227**	ATLAN 12 CAT6 POE **AT-2228**
Maximum transfer speed:		1000 Mbit/s					
Nominal voltage:	U_n	5 V_{DC}			48 V_{DC}		
Maximum continuous operating voltage:	U_c	25 V_{DC}			60 V_{DC}		
Nominal discharge current for line C2 4 kV (1.2/50 µs) / 2 kA (8/20 µs):	$I_n(C2)$	2 kA					
Protection level:	U_p	150 V			250 V		
Maximum operating current:	I_L	300 mA					
Series resistance:	R_s	15 Ω					
Response time:	t_r	< 10 ns					
Working temperature:	ϑ	-40 ºC to +70 ºC					
Protector location:		Indoor					
Type of connection:		Series (two ports)					
No. of pairs protected:		4 x 4 pairs	8 x 4 pairs	12 x 4 pairs	4 x 4 pairs	8 x 4 pairs	12 x 4 pairs
Dimensions:		483 x 150 x 44 mm					
Enclosure material:		Steel					
Enclosure protection:		IP20					
Input / output connector:		Crimped connector / RJ45					
Earthing system:		M5 screw					

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

> DIMENSIONS (MM)

44
483
150
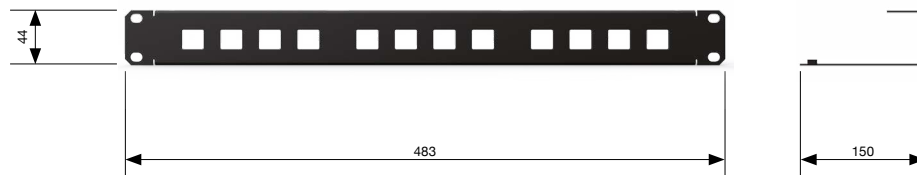
> ACCESSORIES
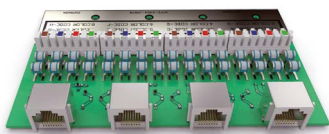
> **AT-2222 ATLAN 4 PCB CAT6:** Printed Circuit Board for replacing ATLAN 12/8/4 series. Protects 4 CAT6 lines.

> **AT-2230 ATLAN 4 PCB CAT6 POE:** Printed Circuit Board for replacing ATLAN 12/8/4 POE series. Protects 4 CAT6 POE lines.

> **AT-2229 ATLAN 4/12:** Metal panel where up to 3 ATLAN 4 PCB CAT6 modules can be fitted. To be mounted on 19" computer racks.