

### ORJ45-2CAT6

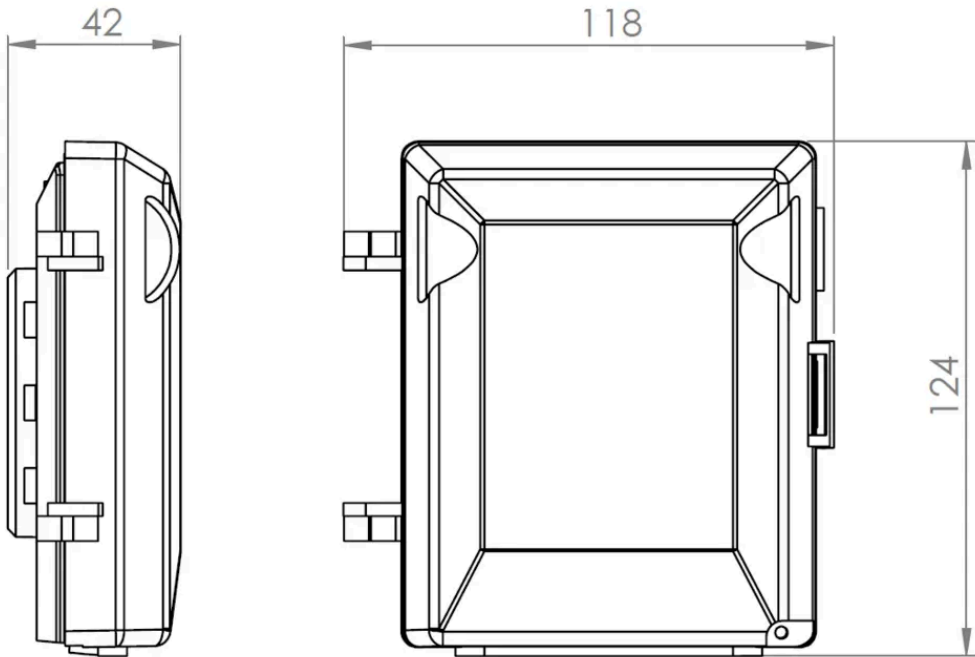
#### Weather proof RJ45

The Novaris ORJ45 protector has been designed for outdoor use, to protect security cameras, Wi-Fi and any other at-risk application. They are fully compatible with CAT6, CAT6A and PoE++ and can handle up to 1A of current per signal pair at up to 80VDC.








Image for illustrative purposes only

### Dimensions



## Product Datasheet

## Electrical Specifications

Connection type		Series
Number of lines		2 x RJ45 / 4 pair & shield
Modes of protection		Transverse & Common
Maximum continuous voltage (DC)	$U_c$	6V
Maximum continuous voltage (AC)	$U_c$	4V
Maximum PoE voltage		80VDC
Maximum discharge current (8/20 $\mu$ s) (L-L)	$I_{max}$	5kA
Maximum common mode discharge current (8/20 $\mu$ s) (CM)	$I_{max}$	10kA
Maximum discharge current (10/350 $\mu$ s)	$I_{imp}$	1kA
Maximum common mode discharge current (10/350 $\mu$ s)	$I_{imp}$	2kA
Impulse durability C2 10x8/20 $\mu$ s	$I_n$	1.5kA
Impulse durability D1 2x10/350 $\mu$ s		0.5kA
Maximum load current	$I_L$	1A
AC durability 5x1s		1A rms
Overstressed fault mode		Mode 3
Line resistance		0.1 $\Omega$
Line inductance		0.2 $\mu$ H
Earthing		Direct Via M4 stud
Attenuation @220MHz		1.7dB
NEXT @250 MHz		35.8dB
Return Loss @ 250MHz		11.2dB
Speed		>1 Gbit/s











## Electrical (L-L) Specifications

Voltage protection level @ 1 kV/ $\mu$ s	$U_p$	20V
Voltage protection level @ 100 V/ s		9V
Capacitance	- -	1pF
Response time	$t_A$	1ps

## Electrical (L-PE) Specifications

Voltage protection level @ 1 kV/ $\mu$ s	$U_p$	350V
L-PE Voltage protection level @ 1.5 kA 8/20 $\mu$ s		750V
Voltage protection level @ 100 V/ s		230V
Capacitance	- -	<2pF

## Mechanical Specifications

Minimum operating temperature		-40°C
Maximum operating temperature		85°C
Minimum operating humidity		5%
Maximum operating humidity		95%
Mounting method		Cable tie
Environmental rating		IP54
Enclosure material		Polycarbonate
Terminal type		RJ45 socket
Length		118mm
Width		42mm
Height		124mm

## Standard Specifications

IEC 61643-21	SPD connected to telecommunications and signalling networks - Cat C2, D1
AS 1768	Signalling/Telecommunications surge protection
UL 497B	Protectors for data, communications and fire-alarm circuits
ITU-T K.44	Resistibility tests for telecommunication equipment exposed to overvoltages and overcurrents
AS/CA S008	Requirements for Customer Cabling Products
AS/NZS 4117	Surge Protective Devices for Telecommunications Applications
AS/CA S009	Installation requirements for customer cabling (Wiring rules)

## Shipping Specifications

Weight		200g
Customs tariff		85363000, 85363010

## Other Specifications

Product Code		ORJ45-2CAT6
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