

RJ45-1CB

C-Bus RJ45 Surge Protection

Novaris C-Bus™ RJ45 surge protection products are specifically designed for the protection of C-Bus™ RJ45 communications wiring.

Communications and Remote Override Protection

The Novaris C-Bus™ RJ45 network protector is designed with primary protection elements of the C-Bus™ network pairs and secondary protection elements to provide protection for the Remote Override pairs.

230V Earth Isolation

The Novaris C-Bus™ protector contains integrated 230V isolation to prevent equipment damage during power to earth faults but also provide efficient earth bonding during a surge event.

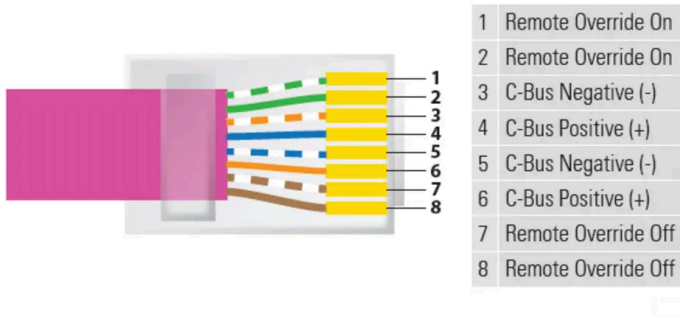
Simple Plug and Play Solution

Simply plugging the Novaris C-Bus™ in line protectors at either end of a C-Bus™ communication network provides excellent protection for your control and management system.



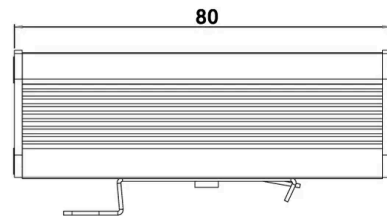
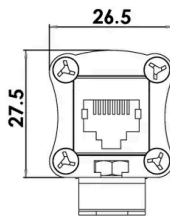
Image for illustrative purposes only

Wiring









Note: C-Bus is a registered trademark of Schneider Electric (Australia) Pty Ltd.

Dimensions




Product Datasheet

Electrical Specifications

Connection type		Series
Number of lines		4 Pair
Modes of protection		Transverse and Common Mode
Maximum continuous voltage (DC)	U_c	38V
Maximum continuous voltage (AC)	U_c	30V
Maximum discharge current (8/20 μ s)	I_{max}	2kA
Maximum common mode discharge current (8/20 μ s)		4kA
Impulse durability C2 10x8/20 μ s		1kA
Maximum load current	I_L	1A
AC durability 5x1s		1A rms
Overstressed fault mode		Mode 3
Response time	t_A	<5ns
Line resistance		0.1 Ω
Line inductance		0.2 μ H
Insertion loss @ 150 Ω		<0.5dB @ <20kHz
3 dB Frequency @ 150 Ω		80kHz
Earthing		Flying Lead/DIN Rail

Other Specifications

Product Code		RJ45-1CB
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Electrical (L-L) Specifications

Voltage protection level @ 1 kV/ μ s	U_p	80V
Voltage protection level @ 100 V/ s		60V
Capacitance	- +	10nF

Electrical (L-PE) Specifications

Voltage protection level @ 1 kV/ μ s	U_p	750V
Voltage protection level @ 100 V/ s		650V
Capacitance	- +	50pF

Mechanical Specifications

Minimum operating temperature		-40°C
Maximum operating temperature		70°C
Minimum operating humidity		5%
Maximum operating humidity		95%
Mounting method		TS35 DIN Rail
Environmental rating		IP20
Enclosure material		Aluminium
Enclosure finish		Black powdercoat
Terminal type		RJ45 Socket
Length		80mm
Width		27mm
Height		28mm
Dimensional tolerance		1mm

Shipping Specifications

Weight		200g
Customs tariff		85363000, 85363010

V1 - Approved - 2025/12/19