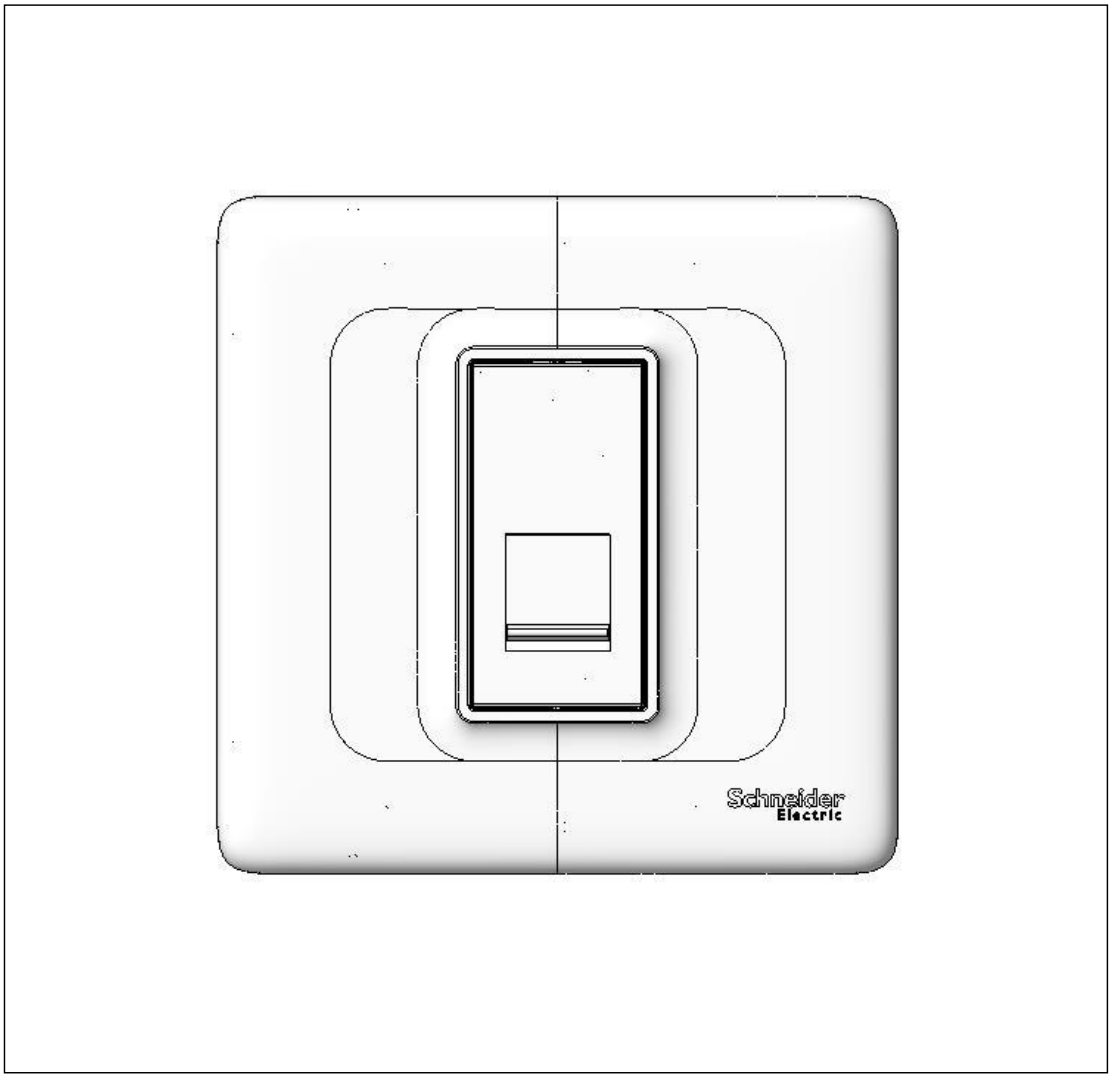
Product Environmental Profile

RJ45 SHUTTERED OUTLET WITH FRAME

As referent product for :
MZRJ45xxxxx, MLCRJ45xxxxx, S3B74xxx, S40xxx, PRM4xxx, S7054xxxx

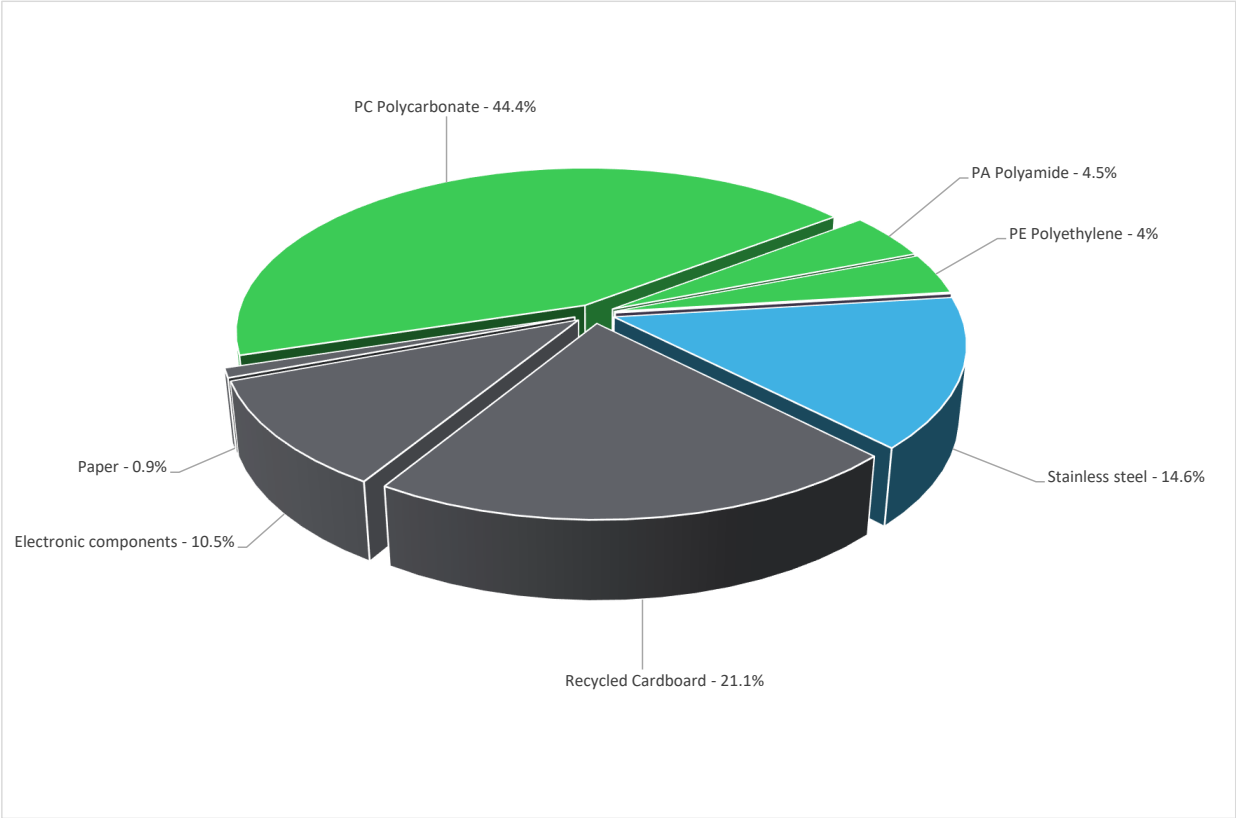


General information

Reference product	RJ 45 CAT6 shuttered outlet with Frame - MZRJ451M_WH + MLCP1M_WH
Description of the product	The primary role of RJ45 is to function as a connecting hardware interface for the transmission of Ethernet protocols via LAN (Local Area Network) cable installation in residential building applications.
Description of the range	Single product
Functional unit	Protect, link by a connection point for X years (reference service life) with a Y% use rate for an application Z.
Specifications are:	- X, Reference service life = 30 Years - Y, Use rate = 70% - Z, Application = Residential, Tertiary and Industrial

Constituent materials

Reference product mass	71.3 g	including the product, its packaging and additional elements and accessories



Plastics	52.9%
Others	32.5%
Metals	14.6%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website
https://www.se.com/ww/en/work/support/green-premium/

Additional environmental information

End Of Life	Recyclability potential:	**19%**	The recyclability rate was calculated from the recycling rates of each material making up the product with the exception of data using the ESR database. For materials or components using the ESR database or the absence of data the conservative hypothesis "0% recyclability" was used.

Environmental impacts

Reference service life time	30 years
Product category	Copper telecom accessory - Residential/Tertiary/Industrial excluding LAN
Installation elements	The product does not require a special installation procedure and requires little to no energy to install.
Use scenario	For the residential, tertiary and Industrial application, the total power dissipation is 0.423W at 70% use rate over the reference service life of 30 years.
Time representativeness	The collected data are representative of the year 2023
Technological representativeness	The Modules of Technologies such as material production, manufacturing processes and transport technology used in the PEP analysis (LCA EIME in the case) are Similar and représentaive of the actual type of technologies used to make the product.
Geographical representativeness	Rest of the World

Energy model used	[A1 - A3]	[A5]	[B6]	[C1 - C4]
	Electricity Mix; High voltage; 2018; India, IN	Electricity Mix; Low voltage; 2018; India, IN	Electricity Mix; Low voltage; 2018; India, IN	Electricity Mix; Low voltage; 2018; India, IN

Detailed results of the optional indicators mentioned in PCRed4 are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.schneider-electric.com/contact

Mandatory Indicators		RJ45 SHUTTERED OUTLET WITH FRAME - MZRJ451M_WH + MLCP1M_WH						
Impact indicators	**Unit**	**Total (without Module D)**	**[A1 - A3] - Manufacturing**	**[A4] - Distribution**	**[A5] - Installation**	**[B1 - B7] - Use**	**[C1 - C4] - End of life**	**[D] - Benefits and loads**
Contribution to climate change	kg CO2 eq	1.22E+00	4.16E-01	3.79E-02	9.74E-03	6.11E-01	1.47E-01	-1.90E-02
Contribution to climate change-fossil	kg CO2 eq	1.21E+00	4.04E-01	3.79E-02	9.74E-03	6.11E-01	1.47E-01	-2.12E-02
Contribution to climate change-biogenic	kg CO2 eq	1.13E-02	1.12E-02	0*	0*	5.94E-05	0*	2.20E-03
Contribution to climate change-land use and land use change	kg CO2 eq	4.91E-05	4.91E-05	0*	0*	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	1.03E-07	6.60E-08	3.35E-08	3.01E-11	3.51E-09	1.07E-10	-5.29E-09
Contribution to acidification	mol H+ eq	8.81E-03	3.77E-03	1.67E-04	9.61E-06	4.67E-03	1.86E-04	-1.36E-04
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	2.86E-06	2.60E-06	4.45E-09	3.05E-09	5.40E-08	2.06E-07	2.30E-07
Contribution to eutrophication marine	kg N eq	9.58E-04	3.24E-04	7.67E-05	4.18E-06	4.96E-04	5.71E-05	6.96E-06
Contribution to eutrophication, terrestrial	mol N eq	1.08E-02	3.62E-03	8.31E-04	4.54E-05	5.71E-03	6.34E-04	-2.10E-05
Contribution to photochemical ozone formation - human health	kg COVNM eq	3.40E-03	1.29E-03	2.72E-04	1.04E-05	1.66E-03	1.76E-04	-2.97E-05
Contribution to resource use, minerals and metals	kg Sb eq	9.40E-06	9.39E-06	0*	0*	4.14E-09	1.64E-09	-1.25E-05
Contribution to resource use, fossils	MJ	2.13E+01	8.84E+00	4.72E-01	9.23E-03	9.63E+00	2.32E+00	-6.89E-01
Contribution to water use	m3 eq	8.58E-01	8.08E-01	1.93E-03	2.23E-03	2.71E-02	1.90E-02	-1.19E-02

Inventory flows Indicators		RJ45 SHUTTERED OUTLET WITH FRAME - MZRJ451M_WH + MLCP1M_WH						
Inventory flows	**Unit**	**Total (without Module D)**	**[A1 - A3] - Manufacturing**	**[A4] - Distribution**	**[A5] - Installation**	**[B1 - B7] - Use**	**[C1 - C4] - End of life**	**[D] - Benefits and loads**
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	8.74E-01	3.37E-01	0*	0*	5.36E-01	7.69E-04	-6.95E-02
Contribution to use of renewable primary energy resources used as raw material	MJ	1.12E-02	1.12E-02	0*	0*	0*	0*	2.70E-01
Contribution to total use of renewable primary energy resources	MJ	8.85E-01	3.48E-01	0*	0*	5.36E-01	7.69E-04	2.01E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	1.98E+01	7.40E+00	4.72E-01	9.23E-03	9.63E+00	2.32E+00	-6.89E-01
Contribution to use of non renewable primary energy resources used as raw material	MJ	1.45E+00	1.45E+00	0*	0*	0*	0*	0.00E+00
Contribution to total use of non-renewable primary energy resources	MJ	2.13E+01	8.84E+00	4.72E-01	9.23E-03	9.63E+00	2.32E+00	-6.89E-01
Contribution to use of secondary material	kg	1.73E-02	1.73E-02	0*	0*	0*	0*	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00

Contribution to net use of freshwater	m³	2.06E-02	1.94E-02	4.48E-05	5.19E-05	6.30E-04	4.43E-04	-2.76E-04
Contribution to hazardous waste disposed	kg	9.61E-01	9.35E-01	0*	0*	1.88E-02	7.51E-03	-9.86E-01
Contribution to non hazardous waste disposed	kg	4.20E-01	2.57E-01	0*	1.87E-02	1.06E-01	3.78E-02	-2.10E-02
Contribution to radioactive waste disposed	kg	1.84E-04	1.71E-04	7.55E-06	1.12E-07	3.81E-06	1.50E-06	-9.38E-06
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	1.17E-02	1.53E-03	0*	0*	0*	1.02E-02	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	1.17E-04	1.64E-05	0*	0*	0*	1.01E-04	0.00E+00

* represents less than 0.01% of the total life cycle of the reference flow

Contribution to biogenic carbon content of the product	kg de C	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	4.44E-03

Mandatory Indicators		RJ45 SHUTTERED OUTLET WITH FRAME - MZRJ451M_WH + MLCP1M_WH							
Impact indicators	**Unit**	**[B1 - B7] - Use**	**[B1]**	**[B2]**	**[B3]**	**[B4]**	**[B5]**	**[B6]**	**[B7]**
Contribution to climate change	kg CO2 eq	6.11E-01	0*	0*	0*	0*	0*	6.11E-01	0*
Contribution to climate change-fossil	kg CO2 eq	6.11E-01	0*	0*	0*	0*	0*	6.11E-01	0*
Contribution to climate change-biogenic	kg CO2 eq	5.94E-05	0*	0*	0*	0*	0*	5.94E-05	0*
Contribution to climate change-land use and land use change	kg CO2 eq	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to ozone depletion	kg CFC-11 eq	3.51E-09	0*	0*	0*	0*	0*	3.51E-09	0*
Contribution to acidification	mol H+ eq	4.67E-03	0*	0*	0*	0*	0*	4.67E-03	0*
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	5.40E-08	0*	0*	0*	0*	0*	5.40E-08	0*
Contribution to eutrophication marine	kg N eq	4.96E-04	0*	0*	0*	0*	0*	4.96E-04	0*
Contribution to eutrophication, terrestrial	mol N eq	5.71E-03	0*	0*	0*	0*	0*	5.71E-03	0*
Contribution to photochemical ozone formation - human health	kg COVNM eq	1.66E-03	0*	0*	0*	0*	0*	1.66E-03	0*
Contribution to resource use, minerals and metals	kg Sb eq	4.14E-09	0*	0*	0*	0*	0*	4.14E-09	0*
Contribution to resource use, fossils	MJ	9.63E+00	0*	0*	0*	0*	0*	9.63E+00	0*
Contribution to water use	m3 eq	2.71E-02	0*	0*	0*	0*	0*	2.71E-02	0*

Inventory flows Indicators		RJ45 SHUTTERED OUTLET WITH FRAME - MZRJ451M_WH + MLCP1M_WH							
Inventory flows	**Unit**	**[B1 - B7] - Use**	**[B1]**	**[B2]**	**[B3]**	**[B4]**	**[B5]**	**[B6]**	**[B7]**
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	5.36E-01	0*	0*	0*	0*	0*	5.36E-01	0*
Contribution to use of renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of renewable primary energy resources	MJ	5.36E-01	0*	0*	0*	0*	0*	5.36E-01	0*
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	9.63E+00	0*	0*	0*	0*	0*	9.63E+00	0*
Contribution to use of non renewable primary energy resources used as raw material	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to total use of non-renewable primary energy resources	MJ	9.63E+00	0*	0*	0*	0*	0*	9.63E+00	0*
Contribution to use of secondary material	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to use of non renewable secondary fuels	MJ	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to net use of freshwater	m³	6.30E-04	0*	0*	0*	0*	0*	6.30E-04	0*
Contribution to hazardous waste disposed	kg	1.88E-02	0*	0*	0*	0*	0*	1.88E-02	0*

Contribution to non hazardous waste disposed	kg	1.06E-01	0*	0*	0*	0*	0*	1.06E-01	0*
Contribution to radioactive waste disposed	kg	3.81E-06	0*	0*	0*	0*	0*	3.81E-06	0*
Contribution to components for reuse	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for recycling	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to materials for energy recovery	kg	0*	0*	0*	0*	0*	0*	0*	0*
Contribution to exported energy	MJ	0*	0*	0*	0*	0*	0*	0*	0*

** represents less than 0.01% of the total life cycle of the reference flow*

Life cycle assessment performed with EIME version v6.1, database version 2023-02 in compliance with ISO14044, EF 3.0 method is applied, for biogenic carbon storage, assessment methodology 0/0 is used

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

Registration number :	ENVPEP2406004_V1-EN	*Drafting rules*	PCR-4-ed4-EN-2021 09 06
Validity period	5 years	*Supplemented by*	PSR-0005-ed3.1-EN-2023 12 08
Date of issue	06-2024	*Information and reference documents*	www.pep-ecopassport.org

Independent verification of the declaration and data, in compliance with ISO 14021 : 2016

Internal X External

The PCR review was conducted by a panel of experts chaired by Julie Orgelet (DDemain)

PEPs are compliant with XP C08-100-1:2016 and EN 50693:2019 or NF E38-500 :2022

The components of the present PEP may not be compared with components from any other program.

Document complies with ISO 14021:2016 "Environmental labels and declarations. Type II environmental declarations"

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