

# Product Environmental Profile

## Linkeo c patch panel equipped with 24 RJ45 Keystone categorie 6A STP



### LEGRAND'S ENVIRONMENTAL COMMITMENTS

**• Incorporate environmental management into our industrial sites**

Of all Legrand sites worldwide, over 85% are ISO 14001-certified (sites belonging to the Group for more than five years).

**• Offer our customers environmentally friendly solutions**

Develop innovative solutions to help our customers design more energy efficient, better managed and more environmentally friendly installations.


**• Involve the environment in product design and provide informations in compliance with ISO 14025**

Reduce the environmental impact of products over their whole life cycle.

Provide our customers with all relevant information (composition, consumption, end of life, etc.).



### REFERENCE PRODUCT

<b>Function</b>	Connect a connection point for 10 years (reference life) with a 25% utilization rate for a copper telecom accessory for a Tertiary LAN application In according with standards : IEC 60603-7.
<b>Reference Product</b>	 <p>Cat.No 6 329 05 - 6 328 50 Linkeo c patch panel equipped with 24 RJ45 Keystone categorie 6A STP.</p>

The company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in the document are for guidance and cannot be held binding on the company.

The PEP has been developed taking into account the number of connection points. The effective impact of the product shall be calculated by the PEP user multiplying impacts by the number of product connection points.



### PRODUCTS CONCERNED

The environmental data is representative of the following products:

<b>Catalogue Numbers</b> • 6 329 05 - 6 329 06
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## ■ CONSTITUENT MATERIALS

This Reference Product contains no substances prohibited by the regulations applicable at the time of its introduction to the market. It respects the restrictions on use of hazardous substances as defined in the RoHS directive 2011/65/EU amended by delegated directive (EU) 2015/863, and its amendment 2017/2102/EU.

<b>Total weight of Reference Product</b>		<b>1814 g</b> (all packaging included)			
Plastics as % of weight		Metals as % of weight		Other as % of weight	
PC	5.6%	Zamak	31.0%	Electronics cards	<0.1%
ABS	3.1%	Steel	25.4%		
PA	0.6%	Copper alloys	1.7%		
		Other metals	0.3%		
<b>Packaging as % of weight</b>					
PE	<0.1%			Paper	26.6%
				Wood	5.7%
<b>Total plastics</b>	<b>9.24%</b>	<b>Total metals</b>	<b>58.41%</b>	<b>Total others</b>	<b>32.35%</b>

Estimated recycled material content: 25% by mass.



## ■ MANUFACTURE

This Reference Product comes from sites that have received ISO14001 certification.



## ■ DISTRIBUTION

Products are distributed from logistics centres located with a view to optimize transport efficiency. The Reference Product is therefore transported over an average distance of 19000 km by ship ; 1000 km by road from our warehouse to the local point of distribution into the market all around the world.

Packaging is compliant with applicable regulation. At their end of life, its recyclability rate is 99% (in % of packaging weight).



## ■ INSTALLATION

For the installation of the product, only standard tools are needed.



## ■ USE

Under normal conditions of use, this product requires no servicing, no maintenance or additional products.

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## END OF LIFE

The product end of life factors are taken into account during the design phase. Dismantling and sorting of components or materials is made as easy as possible with a view to recycling or failing that, another form of reuse.

**• Recyclability rate:**

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 99%. This value is based on data collected from a technological channel operating on an industrial basis. It does not pre-validate the effective use of this channel for the end of life of this product.

Separated into:

- plastic materials (excluding packaging) : 9%
- metal materials (excluding packaging) : 58%
- other materials (excluding packaging) : 0%
- packaging (all types of materials) : 32%



## ENVIRONMENTAL IMPACTS

The evaluation of environmental impacts examines the stages of the Reference Product life cycle: manufacturing, distribution, installation, use and end of life. It is representative from worldwide marketed products.

For each phase, the following modelling elements were taken in account:

Unless otherwise specified, the energy models are those integrated in the modules used from the EIME database	
<b>Manufacture</b>	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.
<b>Distribution</b>	Transport between the last Group distribution centre and an average delivery point in the sales area.
<b>Installation</b>	The end of life of the packaging.
<b>Use</b>	<ul style="list-style-type: none"> <li>• Product category: Socket RJ45 - PSR-0005-ed2-EN-2016 03 29 - 3.8.1.2. Copper Telecom accessories.</li> <li>• Use scenario: LAN tertiary, non continuous operation for 10 years, cat 6a for 25% of the time .This time modeling is not requirement of minimum durability.</li> <li>• Energy model: Electricity Mix; China - 2009.</li> </ul>
<b>End of life</b>	The default end of life scenario maximizing the impacts.
<b>Software and database used</b>	EIME & database CODDE-2018-11

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## SELECTION OF ENVIRONMENTAL IMPACTS

	Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
<b>Global warming</b>	<b>7.33E-01</b>	<b>kgCO<sub>2</sub> eq.</b>	5.95E-01	<b>81%</b>	2.26E-02	<b>3%</b>	1.46E-03	<b>&lt; 1%</b>	1.10E-01	<b>15%</b>	3.67E-03	<b>&lt; 1%</b>
<b>Ozone depletion</b>	<b>3.42E-08</b>	<b>kgCFC-11 eq.</b>	3.32E-08	<b>97%</b>	3.86E-11	<b>&lt; 1%</b>	8.92E-12	<b>&lt; 1%</b>	8.74E-10	<b>3%</b>	3.95E-11	<b>&lt; 1%</b>
<b>Acidification of soils and water</b>	<b>1.89E-03</b>	<b>kgSO<sub>2</sub> eq.</b>	1.11E-03	<b>59%</b>	6.39E-04	<b>34%</b>	7.06E-06	<b>&lt; 1%</b>	1.19E-04	<b>6%</b>	1.52E-05	<b>&lt; 1%</b>
<b>Water eutrophication</b>	<b>5.84E-04</b>	<b>kg(PO<sub>4</sub>)<sup>3-</sup> eq.</b>	4.60E-04	<b>79%</b>	6.30E-05	<b>11%</b>	6.79E-06	<b>1%</b>	3.14E-05	<b>5%</b>	2.37E-05	<b>4%</b>
<b>Photochemical ozone formation</b>	<b>1.83E-04</b>	<b>kgC<sub>2</sub>H<sub>4</sub> eq.</b>	1.36E-04	<b>74%</b>	3.17E-05	<b>17%</b>	4.99E-07	<b>&lt; 1%</b>	1.41E-05	<b>8%</b>	1.15E-06	<b>&lt; 1%</b>
<b>Depletion of abiotic resources - elements</b>	<b>2.99E-05</b>	<b>kgSb eq.</b>	2.99E-05	<b>100%</b>	8.16E-10	<b>&lt; 1%</b>	6.26E-11	<b>&lt; 1%</b>	4.82E-10	<b>&lt; 1%</b>	1.73E-10	<b>&lt; 1%</b>
<b>Total use of primary energy</b>	<b>1.24E+01</b>	<b>MJ</b>	1.03E+01	<b>83%</b>	2.88E-01	<b>2%</b>	2.01E-02	<b>&lt; 1%</b>	1.80E+00	<b>14%</b>	4.46E-02	<b>&lt; 1%</b>
<b>Net use of fresh water</b>	<b>3.32E-02</b>	<b>m<sup>3</sup></b>	3.30E-02	<b>100%</b>	1.74E-06	<b>&lt; 1%</b>	4.07E-07	<b>&lt; 1%</b>	1.22E-04	<b>&lt; 1%</b>	1.46E-06	<b>&lt; 1%</b>
<b>Depletion of abiotic resources - fossil fuels</b>	<b>8.07E+00</b>	<b>MJ</b>	6.06E+00	<b>75%</b>	2.86E-01	<b>4%</b>	1.96E-02	<b>&lt; 1%</b>	1.66E+00	<b>21%</b>	4.28E-02	<b>&lt; 1%</b>
<b>Water pollution</b>	<b>6.81E+01</b>	<b>m<sup>3</sup></b>	5.86E+01	<b>86%</b>	3.35E+00	<b>5%</b>	2.28E-01	<b>&lt; 1%</b>	5.46E+00	<b>8%</b>	4.99E-01	<b>&lt; 1%</b>
<b>Air pollution</b>	<b>1.48E+02</b>	<b>m<sup>3</sup></b>	1.33E+02	<b>90%</b>	3.09E+00	<b>2%</b>	1.66E-01	<b>&lt; 1%</b>	1.14E+01	<b>8%</b>	2.59E-01	<b>&lt; 1%</b>

The values of the 27 impacts defined in the PCR-ed3-EN-2015 04 02 are available in the digital database of pep-ecopassport.org website.

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For all products concerned (see § «products concerned»), take these impacts values.

The reference product : 632905 - 632850						
RJ45 CAT 6A STP KEYSTONE /X24 + P.P. 24 RJ45 KS TO BE EQUIPPED						
Coefficient of extrapolation of environmental indicators						
Associated References	Manufacturing	Distribution	Installation	Use	End of life	
632906 - 632850 RJ45 CAT 6A UTP KEYSTONE /X24 + P.P. 24 RJ45 KS TO BE EQUIPPED	GWP	0.9	0.9	1.0	1.0	0.9
	ODP					
	A					
	EP					
	POCP					
	ADPe					
	PE					
	FW					
	ADPf					
	WP					
	AP					
632907 - 632850 RJ45 CAT 6 STP KEYSTONE /X24 + P.P. 24 RJ45 KS TO BE EQUIPPED	GWP	1.0	1.0	1.0	0.2	1.0
	ODP					
	A					
	EP					
	POCP					
	ADPe					
	PE					
	FW					
	ADPf					
	WP					
	AP					
632908 - 632850 RJ45 CAT 6 FTP KEYSTONE /X24 + P.P. 24 RJ45 KS TO BE EQUIPPED	GWP	0.4	0.7	1.0	0.2	0.8
	ODP					
	A					
	EP					
	POCP					
	ADPe					
	PE					
	FW					
	ADPf					
	WP					
	AP					
632909 - 632850 RJ45 CAT 6 UTP KEYSTONE /X24 + P.P. 24 RJ45 KS TO BE EQUIPPED	GWP	0.4	0.7	1.0	0.2	0.7
	ODP					
	A					
	EP					
	POCP					
	ADPe					
	PE					
	FW					
	ADPf					
	WP					
	AP					
632910 - 632850 RJ45 CAT 6E STP KEYSTONE /X24 + P.P. 24 RJ45 KS TO BE EQUIPPED	GWP	1.0	1.0	1.0	0.2	1.0
	ODP					
	A					
	EP					
	POCP					
	ADPe					
	PE					
	FW					
	ADPf					
	WP					
	AP					
632911 - 632850 RJ45 CAT 6E UTP KEYSTONE /X24 + P.P. 24 RJ45 KS TO BE EQUIPPED	GWP	0.4	0.7	1.0	0.2	0.7
	ODP					
	A					
	EP					
	POCP					
	ADPe					
	PE					
	FW					
	ADPf					
	WP					
	AP					

Contact Legrand if you have any questions regarding the calculation of coefficients for impacts others than those presented in this PEP

Registration number: LGRP-01493-V01.01-EN	Drafting rules: PEP-PCR-ed3-EN-2015 04 02 Supplemented by PSR-0005-ed2-2016 03 29
Verifier accreditation N°: VH18	Information and reference documents: <a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Date of issue: 04-2022	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010 Internal <input type="checkbox"/> External <input checked="" type="checkbox"/>	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)	
PEP are compliant with XP C08-100-1 : 2016 The elements of the present PEP cannot be compared with elements from another program	
Document in compliance with ISO 14025 : 2010: «Environmental labels and declarations. Type III environmental declarations»	



Environmental data in alignment with EN 15804: 2012 + A1 : 2013