

# Product Environmental Profile

**Linkeo c patch panel equipped with 24 RJ45  
Keystone categorie 5e 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>	Protect, link by a connection point for 10 years (reference service life) with a 25% use rate for an application LAN: Tertiary Building.
<b>Reference Product</b>	
	Cat.No LG-632910 + LG-632850
	RJ45 category 5e STP keystone (set of 24) +Patch panel 24 RJ45 category 5e/6/6A KS to be equipped with metal cable holder.

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.



## PRODUCTS CONCERNED

The environmental data is representative of the following products:

<b>Catalogue Numbers</b> <ul style="list-style-type: none"> <li>RJ45: LG-632910E - LG-632911 - LG-632928 - LG-632898 - LG-632899</li> <li>Patch panel: LG-632850</li> </ul> <p>The PEP has been developed taking into account of a single connection point. The effective impact of the product shall be calculated by the PEP user multiplying impacts by the number of product connection points</p>
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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>0.07 kg</b> (all packaging included)
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Product alone weight 0.05 kg					
Plastics as % of weight		Metals as % of weight		Other as % of weight	
PC	6.2%	Zamak	31.7%	PWB < 10cm <sup>2</sup>	1.1%
ABS	3.8%	Steel	25.3%		
PA	0.6%	Copper and copper alloys	1.8%		
PBT	0.3%	others metals	0.2%		
PP	<0.1%	Tin	<0.1%		
		Various metaux	<0.1%		

Packaging (alone) : 0.02 kg					
PE	0.1%			Cardboard	19.2%
				wood	8.8%
				Paper	0.8%

<b>Total plastics : 0.01 kg</b>	<b>11.0 %</b>	<b>Total metals : 0.04 kg</b>	<b>59.1 %</b>	<b>Total others : 0.02 kg</b>	<b>29.9 %</b>
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At the date of edition of this document, the content of recycled material(s) is :

- Product alone (excluding packaging): 0% by mass
- Packaging only: 61% by mass



## ■ MANUFACTURE

This Reference Product comes from sites that have received ISO14001 certification. The final assembly site is located at TCL-LEGRANDINTERNATIONAL ELECTRICAL CO., LTD Huizhou City, GUANGDONG Province, P. R. CHINA.



## ■ 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 19000km by Boat and 1000 km by Lorry from our warehouse to the local point of distribution into the market all around the world.

Packaging is compliant with applicable regulation.



## ■ 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. This product falls within the scope of the WEEE directive (2012/19/EU). Therefore it must be processed through local WEEE recycling/recovery channels.



## 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. The datasets collected in this PEP are representative of the year 2024.

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

<b>System Limit</b>	<b>Manufacture A1-A3</b>	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.
	<b>Distribution A4</b>	Transport between the last Group distribution centre and an average delivery point in the sales area.
	<b>Installation A5</b>	The end of life of the packaging.
	<b>Use B1-B7</b>	<ul style="list-style-type: none"> <li>▪ Product category: Copper telecom accessories.</li> <li>▪ Use scenario: Continuous operation (100% of the time) for 10 years at 25% of rated load. This modelling period does not constitute a maximum durability requirement.</li> <li>▪ Energy model: Electricity Mix; production mix; Low voltage ; Global, GLO - 2020.</li> </ul>
	<b>End of life C1-C4</b>	The default end of life scenario maximizing the impacts.
<b>D Module</b>	Module D is calculated according to PCR-ed4-EN-2021 09 06 based on the materials recycled and the modelled end-of-life scenario. It expresses the net benefits and burdens beyond the boundaries of the system, and are not to be included in the life cycle totals.	
<b>Software and data-base used</b>	EIME V6 & its database 2024-04-15 The set of indicators used is Indicators for PEF EF 3.1 (Compliance: PEP ed.4, EN15804+A2) v1.0	

Unless otherwise indicated the modelling energetic mix are those integrated in the data modules used from the aforementioned database.

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## ENVIRONMENTAL IMPACTS

Impacts below are given for 1 connection point (fonctionnal unit).

	Total Life Cycle		Manufacturing	Distribution	Installation	Use <sup>(1)</sup>			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Climate change - total	7.46E-01	kg CO <sub>2</sub> eq.	6.13E-01	2.22E-02	4.00E-02	2.00E-02	0.00E+00	2.00E-02	5.09E-02	-6.62E-02
Climate change - fossil fuels	7.44E-01	kg CO <sub>2</sub> eq.	6.43E-01	2.22E-02	7.66E-03	2.00E-02	0.00E+00	2.00E-02	5.07E-02	-4.76E-02
Climate change - biogenics	2.25E-03	kg CO <sub>2</sub> eq.	-3.03E-02	0.00E+00	3.24E-02	1.58E-05	0.00E+00	1.58E-05	1.82E-04	-1.86E-02
Climate change - land use and land use transformation	6.82E-06	kg CO <sub>2</sub> eq.	6.82E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.88E-09	0.00E+00
Ozone depletion	1.83E-08	kg CFC-11 eq.	1.70E-08	2.89E-11	2.64E-10	9.41E-11	0.00E+00	9.41E-11	9.63E-10	1.57E-11
Acidification (AP)	8.11E-03	mole of H <sup>+</sup> eq.	6.60E-03	1.04E-03	4.92E-05	1.29E-04	0.00E+00	1.29E-04	2.97E-04	-3.37E-04
Freshwater eutrophication	8.13E-06	kg P eq.	2.82E-06	7.65E-09	6.06E-09	1.44E-08	0.00E+00	1.44E-08	5.29E-06	2.24E-07
Marine aquatic eutrophication	9.33E-04	kg of N eq.	6.81E-04	1.82E-04	1.09E-05	1.40E-05	0.00E+00	1.40E-05	4.39E-05	-1.30E-05
Terrestrial eutrophication	1.02E-02	mole of N eq.	7.43E-03	2.00E-03	1.44E-04	1.68E-04	0.00E+00	1.68E-04	5.08E-04	-2.09E-04
Photochemical ozone formation	3.38E-03	kg NMVOC eq.	2.63E-03	5.14E-04	3.08E-05	4.63E-05	0.00E+00	4.63E-05	1.56E-04	-1.08E-04
Depletion of abiotic resources - elements	2.57E-05	kg Sb eq.	2.55E-05	0*	0*	2.76E-09	0.00E+00	2.76E-09	1.75E-07	-4.62E-06
Depletion of abiotic resources - fossil fuels	1.69E+01	MJ	1.28E+01	2.81E-01	1.42E-01	3.62E-01	0.00E+00	3.62E-01	3.32E+00	-4.61E+00
Water requirement	1.60E-01	m <sup>3</sup> deprivation worldwide eq.	1.37E-01	7.31E-05	3.19E-04	1.10E-03	0.00E+00	1.10E-03	2.15E-02	-2.72E-02
Emission of fine particles	4.11E-08	incidence of diseases	3.47E-08	4.07E-09	3.14E-10	7.54E-10	0.00E+00	7.54E-10	1.26E-09	-1.37E-09

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

<sup>(1)</sup> For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

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	Total Life Cycle		Manufacturing	Distribution	Installation	Use <sup>(1)</sup>			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
<b>Ionizing radiation, human health</b>	<b>1.45E+00</b>	<b>kBq of U235 eq.</b>	1.43E+00	0*	3.21E-03	7.89E-03	0.00E+00	7.89E-03	3.45E-03	-2.23E-01
<b>Ecotoxicity (fresh water)</b>	<b>1.37E+02</b>	<b>CTUe</b>	4.14E+01	0*	1.81E-01	3.58E-02	0.00E+00	3.58E-02	9.49E+01	2.63E-01
<b>Human toxicity, carcinogenic effects</b>	<b>9.87E-09</b>	<b>CTUh</b>	9.84E-09	0*	1.33E-12	2.46E-12	0.00E+00	2.46E-12	2.59E-11	2.10E-09
<b>Human toxicity, non-carcinogenic effects</b>	<b>1.98E-08</b>	<b>CTUh</b>	1.76E-08	7.37E-12	5.44E-11	8.37E-11	0.00E+00	8.37E-11	1.97E-09	-2.32E-09
<b>Impacts related to land use/soil quality</b>	<b>4.09E-02</b>	<b>-</b>	2.45E-02	0.00E+00	1.49E-04	2.07E-04	0.00E+00	2.07E-04	1.61E-02	0.00E+00
<b>Use of renewable primary energy, excluding renewable primary energy resources used as raw materials</b>	<b>1.46E-01</b>	<b>MJ</b>	7.70E-02	3.60E-04	1.07E-02	4.54E-02	0.00E+00	4.54E-02	1.20E-02	-5.83E-02
<b>Use of renewable primary energy resources used as raw materials</b>	<b>2.15E-01</b>	<b>MJ</b>	2.15E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.32E-01
<b>Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)</b>	<b>3.60E-01</b>	<b>MJ</b>	2.92E-01	3.60E-04	1.07E-02	4.54E-02	0.00E+00	4.54E-02	1.20E-02	1.74E-01
<b>Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials</b>	<b>1.66E+01</b>	<b>MJ</b>	1.25E+01	2.81E-01	1.42E-01	3.62E-01	0.00E+00	3.62E-01	3.32E+00	-4.59E+00
<b>Use of non-renewable primary energy resources used as raw materials</b>	<b>3.28E-01</b>	<b>MJ</b>	3.28E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-2.23E-02
<b>Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)</b>	<b>1.69E+01</b>	<b>MJ</b>	1.28E+01	2.81E-01	1.42E-01	3.62E-01	0.00E+00	3.62E-01	3.32E+00	-4.61E+00

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

<sup>(1)</sup> For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table

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	Total Life Cycle		Manufacturing	Distribution	Installation	Use <sup>(1)</sup>			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Use of secondary materials	1.33E-02	kg	1.33E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	3.74E-03	m <sup>3</sup>	3.20E-03	1.70E-06	1.24E-05	2.56E-05	0.00E+00	2.56E-05	5.03E-04	-6.34E-04
Hazardous waste disposed of	6.98E-01	kg	6.30E-01	0.00E+00	7.89E-03	5.01E-04	0.00E+00	5.01E-04	5.93E-02	-1.07E-01
Non-hazardous waste disposed of	1.01E-01	kg	9.32E-02	6.78E-04	1.11E-03	3.40E-03	0.00E+00	3.40E-03	2.82E-03	7.71E-03
Radioactive waste disposed of	5.70E-05	kg	5.37E-05	4.71E-07	4.57E-07	4.13E-07	0.00E+00	4.13E-07	1.97E-06	3.61E-06
Components for re-use	0.00E+00	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	2.61E-02	kg	9.67E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.65E-02	0.00E+00
Materials for energy recovery	0.00E+00	MJ by energy vector	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of primary energy during the life cycle	1.73E+01	MJ	1.31E+01	2.82E-01	1.53E-01	4.07E-01	0.00E+00	4.07E-01	3.33E+00	-4.44E+00

Biogenic carbon content of the product	0.00E+00	kg of C	0.00E+00
Biogenic carbon content of the associated packaging	1.02E-02	kg of C	1.02E-02

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

<sup>(1)</sup> For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

The values of the indicators defined in the PCR-ed4-EN-2021 09 06 are available in the digital database of pep-ecopassport.org website.

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categorie 5e STP



## ENVIRONMENTAL IMPACTS

Impacts below are given for 24 connection points (declared product).

	Total Life Cycle		Manufacturing	Distribution	Installation	Use <sup>(1)</sup>			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Climate change - total	1.79E+01	kg CO <sub>2</sub> eq.	1.47E+01	5.34E-01	1.84E-01	4.80E-01	0.00E+00	4.80E-01	1.22E+00	-1.59E+00
Climate change - fossil fuels	1.78E+01	kg CO <sub>2</sub> eq.	1.54E+01	5.34E-01	7.77E-01	4.79E-01	0.00E+00	4.79E-01	1.22E+00	-1.14E+00
Climate change - biogenics	5.39E-02	kg CO <sub>2</sub> eq.	-7.28E-01	0.00E+00	0.00E+00	3.79E-04	0.00E+00	3.79E-04	4.38E-03	-4.46E-01
Climate change - land use and land use transformation	1.64E-04	kg CO <sub>2</sub> eq.	1.64E-04	0.00E+00	6.35E-09	0.00E+00	0.00E+00	0.00E+00	6.91E-08	0.00E+00
Ozone depletion	4.39E-07	kg CFC-11 eq.	4.07E-07	6.94E-10	1.18E-03	2.26E-09	0.00E+00	2.26E-09	2.31E-08	3.78E-10
Acidification (AP)	1.95E-01	mole of H <sup>+</sup> eq.	1.58E-01	2.49E-02	1.45E-07	3.10E-03	0.00E+00	3.10E-03	7.13E-03	-8.09E-03
Freshwater eutrophication	1.95E-04	kg P eq.	6.76E-05	1.84E-07	2.62E-04	3.46E-07	0.00E+00	3.46E-07	1.27E-04	5.39E-06
Marine aquatic eutrophication	2.24E-02	kg of N eq.	1.64E-02	4.37E-03	3.45E-03	3.36E-04	0.00E+00	3.36E-04	1.05E-03	-3.12E-04
Terrestrial eutrophication	2.46E-01	mole of N eq.	1.78E-01	4.79E-02	7.40E-04	4.02E-03	0.00E+00	4.02E-03	1.22E-02	-5.01E-03
Photochemical ozone formation	8.11E-02	kg NMVOC eq.	6.32E-02	1.23E-02	1.31E-08	1.11E-03	0.00E+00	1.11E-03	3.75E-03	-2.59E-03
Depletion of abiotic resources - elements	6.17E-04	kg Sb eq.	6.12E-04	0*	0*	6.62E-08	0.00E+00	6.62E-08	4.19E-06	-1.11E-04
Depletion of abiotic resources - fossil fuels	4.07E+02	MJ	3.08E+02	6.75E+00	7.67E-03	8.68E+00	0.00E+00	8.68E+00	7.97E+01	-1.11E+02
Water requirement	3.85E+00	m <sup>3</sup> deprivation worldwide eq.	3.30E+00	1.75E-03	7.53E-09	2.64E-02	0.00E+00	2.64E-02	5.15E-01	-6.54E-01
Emission of fine particles	9.85E-07	incidence of diseases	8.32E-07	9.77E-08	7.70E-02	1.81E-08	0.00E+00	1.81E-08	3.02E-08	-3.29E-08

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

<sup>(1)</sup> For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

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	Total Life Cycle		Manufacturing	Distribution	Installation	Use <sup>(1)</sup>			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
<b>Ionizing radiation. human health</b>	<b>3.48E+01</b>	<b>kBq of U235 eq.</b>	3.44E+01	0*	4.33E+00	1.89E-01	0.00E+00	1.89E-01	8.27E-02	-5.34E+00
<b>Ecotoxicity (fresh water)</b>	<b>3.28E+03</b>	<b>CTUe</b>	9.93E+02	0*	3.19E-11	8.58E-01	0.00E+00	8.58E-01	2.28E+03	6.30E+00
<b>Human toxicity. carcinogenic effects</b>	<b>2.37E-07</b>	<b>CTUh</b>	2.36E-07	0*	1.30E-09	5.91E-11	0.00E+00	5.91E-11	6.21E-10	5.05E-08
<b>Human toxicity. non-carcinogenic effects</b>	<b>4.74E-07</b>	<b>CTUh</b>	4.24E-07	1.77E-10	3.58E-03	2.01E-09	0.00E+00	2.01E-09	4.73E-08	-5.58E-08
<b>Impacts related to land use/soil quality</b>	<b>9.83E-01</b>	<b>-</b>	5.88E-01	0.00E+00	2.58E-01	4.97E-03	0.00E+00	4.97E-03	3.86E-01	0.00E+00
<b>Use of renewable primary energy, excluding renewable primary energy resources used as raw materials</b>	<b>3.49E+00</b>	<b>MJ</b>	1.85E+00	8.63E-03	0.00E+00	1.09E+00	0.00E+00	1.09E+00	2.89E-01	-1.40E+00
<b>Use of renewable primary energy resources used as raw materials</b>	<b>5.15E+00</b>	<b>MJ</b>	5.15E+00	0.00E+00	2.58E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	5.57E+00
<b>Total use of renewable primary energy resources</b> (primary energy and primary energy resources used as raw materials)	<b>8.64E+00</b>	<b>MJ</b>	7.00E+00	8.63E-03	3.41E+00	1.09E+00	0.00E+00	1.09E+00	2.89E-01	4.17E+00
<b>Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials</b>	<b>3.99E+02</b>	<b>MJ</b>	3.00E+02	6.75E+00	0.00E+00	8.68E+00	0.00E+00	8.68E+00	7.97E+01	-1.10E+02
<b>Use of non-renewable primary energy resources used as raw materials</b>	<b>7.86E+00</b>	<b>MJ</b>	7.86E+00	0.00E+00	3.41E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-5.35E-01
<b>Total use of non-renewable primary energy resources</b> (primary energy and primary energy resources used as raw materials)	<b>4.07E+02</b>	<b>MJ</b>	3.08E+02	6.75E+00	0.00E+00	8.68E+00	0.00E+00	8.68E+00	7.97E+01	-1.11E+02

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

<sup>(1)</sup> For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column



# Product Environmental Profile

## Linkeo c patch panel equipped with 24 RJ45 Keystone categorie 5e STP



	Total Life Cycle		Manufacturing	Distribution	Installation	Use <sup>(1)</sup>			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Use of secondary materials	3.18E-01	kg	3.18E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	0.00E+00	MJ	0.00E+00	0.00E+00	2.98E-04	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	8.98E-02	m <sup>3</sup>	7.68E-02	4.09E-05	1.89E-01	6.15E-04	0.00E+00	6.15E-04	1.21E-02	-1.52E-02
Hazardous waste disposed of	1.68E+01	kg	1.51E+01	0.00E+00	2.65E-02	1.20E-02	0.00E+00	1.20E-02	1.42E+00	-2.57E+00
Non-hazardous waste disposed of	2.43E+00	kg	2.24E+00	1.63E-02	1.10E-05	8.15E-02	0.00E+00	8.15E-02	6.78E-02	1.85E-01
Radioactive waste disposed of	1.37E-03	kg	1.29E-03	1.13E-05	0.00E+00	9.91E-06	0.00E+00	9.91E-06	4.73E-05	8.66E-05
Components for re-use	0.00E+00	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	6.27E-01	kg	2.32E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.95E-01	0.00E+00
Materials for energy recovery	0.00E+00	MJ by energy vector	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	0.00E+00	MJ	0.00E+00	0.00E+00	3.67E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of primary energy during the life cycle	4.15E+02	MJ	3.15E+02	6.76E+00	0.00E+00	9.77E+00	0.00E+00	9.77E+00	8.00E+01	-1.06E+02

Biogenic carbon content of the product	0.00E+00	kg of C	0.00E+00
Biogenic carbon content of the associated packaging	2.44E-01	kg of C	2.44E-01

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

<sup>(1)</sup> For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

The values of the indicators defined in the PCR-ed4-EN-2021 09 06 are available in the digital database of pep-ecopassport.org website.

# Product Environmental Profile

Linkeo c patch panel equipped with 24 RJ45  
Keystone categorie 5e STP



For each stage of the life cycle, the environmental impacts of the product in question are calculated by multiplying the extrapolation coefficient by the impact results (for 1 connection point) in the tables on pages 4, 5 and 6 or by the impact results (for 24 connection points) in the tables on pages 7, 8 and 9.

Associated references	Description : RJ45 category 5e STP keystone (set of 24) + RJ 11 SOCKET COVER MAT BLACK VALENA LIFE + 1 GANG PLATE MAT BLACK VALENA LIFE Coefficient of extrapolation of environmental indicators	The reference product : LG-632910 + LG-632850					
		Total life Cycle	Manufacturing	Distribution	Installation	Use	End of life
LG-632910E + LG-632850 RJ45 category 5e STP Keystone /x24 + Patch panel	Climate change - total	1.0	1.0	0.6	1.0	0.6	1.0
	Climate change - fossil fuels	1.0	1.0	0.6	1.0	0.5	1.0
	Climate change - biogenics	1.2	1.0	0.0	1.0	1.3	1.0
	Climate change - land use and land use transformation	1.0	1.0	0.0	0.0	0.0	1.0
	Ozone depletion	1.0	1.0	0.7	1.0	0.6	1.0
	Acidification (AP)	0.8	0.9	0.1	1.0	0.5	1.0
	Freshwater eutrophication	1.0	1.0	0.6	1.0	2.0	1.0
	Marine aquatic eutrophication	0.7	0.9	0.2	1.0	0.5	1.0
	Terrestrial eutrophication	0.7	0.9	0.2	1.0	0.7	1.0
	Photochemical ozone formation	0.8	0.9	0.2	1.0	0.5	1.0
	Depletion of abiotic resources - elements	1.0	1.0	0.6	1.0	1.4	1.0
	Depletion of abiotic resources - fossil fuels	1.0	1.0	0.6	1.0	0.8	1.0
	Water requirement	1.0	1.0	0.7	1.0	0.8	1.0
	Emission of fine particles	0.9	0.9	0.2	1.0	0.6	1.0
	Ionizing radiation, human health	1.0	1.0	0.7	1.0	2.0	1.0
	Ecotoxicity (fresh water)	1.0	1.0	0.6	1.0	0.6	1.0
	Human toxicity, carcinogenic effects	1.0	1.0	0.7	1.0	0.6	1.0
	Human toxicity, non-carcinogenic effects	1.0	1.0	0.6	1.0	0.4	1.0
	Impacts related to land use/soil quality	1.0	1.1	0.0	1.0	1.5	1.0
	Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	1.2	1.0	0.7	1.0	1.6	1.0
	Use of renewable primary energy resources used as raw materials	1.0	1.0	0.0	0.0	0.0	0.0
	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.1	1.0	0.7	1.0	1.6	1.0
	Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	1.0	1.0	0.6	1.0	0.8	1.0
	Use of non-renewable primary energy resources used as raw materials	1.0	1.0	0.0	0.0	0.0	0.0
	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.0	1.0	0.6	1.0	0.8	1.0
	Use of secondary materials	1.0	1.0	0.0	0.0	0.0	0.0
	Use of renewable secondary fuels	0.0	0.0	0.0	0.0	0.0	0.0
	Use of non-renewable secondary fuels	0.0	0.0	0.0	0.0	0.0	0.0
	Net use of fresh water	1.0	1.0	0.7	1.0	0.8	1.0
	Hazardous waste disposed of	1.0	1.0	0.0	1.0	1.0	1.0
	Non-hazardous waste disposed of	1.1	1.2	0.7	1.0	0.5	1.0
	Radioactive waste disposed of	1.2	1.2	0.7	1.0	1.0	1.0
	Components for re-use	0.0	0.0	0.0	0.0	0.0	0.0
	Materials for recycling	1.0	1.0	0.0	0.0	0.0	1.0
	Materials for energy recovery	0.0	0.0	0.0	0.0	0.0	0.0
	Exported energy	0.0	0.0	0.0	0.0	0.0	0.0
	Total use of primary energy during the life cycle	1.0	1.0	0.6	1.0	0.9	1.0
	Biogenic carbon content of the product	0.0	0.0	0.0	0.0	0.0	0.0
	Biogenic carbon content of the associated packaging	1.0	1.0	0.0	0.0	0.0	0.0

# Product Environmental Profile

Linkeo c patch panel equipped with 24 RJ45  
Keystone categorie 5e STP



Associated references	Coefficient of extrapolation of environmental indicators						
	Total life Cycle	Manufacturing	Distribution	Installation	Use	End of life	
<b>LG-632911 + 632850</b> RJ45 category 5e UTP keystone (set of 24) + Patch panel	Climate change - total	0.4	0.3	0.7	1.0	1.0	1.0
	Climate change - fossil fuels	0.4	0.3	0.7	1.0	1.0	1.0
	Climate change - biogenics	1.0	1.0	0.0	1.0	1.0	0.5
	Climate change - land use and land use transformation	1.4	1.4	0.0	0.0	0.0	0.5
	Ozone depletion	0.5	0.5	0.7	1.0	1.0	0.8
	Acidification (AP)	0.4	0.3	0.7	1.0	1.0	0.9
	Freshwater eutrophication	0.5	0.4	0.7	1.0	1.0	0.5
	Marine aquatic eutrophication	0.5	0.4	0.7	1.0	1.0	1.0
	Terrestrial eutrophication	0.5	0.4	0.7	1.0	1.0	1.0
	Photochemical ozone formation	0.5	0.4	0.7	1.0	1.0	1.0
	Depletion of abiotic resources - elements	0.9	0.9	0.7	1.0	1.0	0.5
	Depletion of abiotic resources - fossil fuels	0.7	0.6	0.7	1.0	1.0	1.0
	Water requirement	0.7	0.7	0.7	1.0	1.0	0.9
	Emission of fine particles	0.4	0.3	0.7	1.0	1.0	0.9
	Ionizing radiation, human health	0.8	0.8	0.7	1.0	1.0	1.0
	Ecotoxicity (fresh water)	0.0	0.0	0.7	1.0	1.0	0.0
	Human toxicity, carcinogenic effects	0.9	0.9	0.7	1.0	1.0	0.5
	Human toxicity, non-carcinogenic effects	0.3	0.3	0.7	1.0	1.0	0.3
	Impacts related to land use/soil quality	0.9	1.2	0.0	1.0	1.0	0.5
	Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	1.0	0.9	0.7	1.0	1.0	1.0
	Use of renewable primary energy resources used as raw materials	0.9	0.9	0.0	0.0	0.0	0.0
	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	0.9	0.9	0.7	1.0	1.0	1.0
	Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	0.7	0.6	0.7	1.0	1.0	1.0
	Use of non-renewable primary energy resources used as raw materials	1.4	1.4	0.0	0.0	0.0	0.0
	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	0.7	0.6	0.7	1.0	1.0	1.0
	Use of secondary materials	1.0	1.0	0.0	0.0	0.0	0.0
	Use of renewable secondary fuels	0.0	0.0	0.0	0.0	0.0	0.0
	Use of non-renewable secondary fuels	0.0	0.0	0.0	0.0	0.0	0.0
	Net use of fresh water	0.7	0.7	0.7	1.0	1.0	0.9
	Hazardous waste disposed of	0.7	0.7	0.0	1.0	1.0	0.7
	Non-hazardous waste disposed of	0.4	0.4	0.7	1.0	1.0	0.6
	Radioactive waste disposed of	0.4	0.3	0.7	1.0	1.0	0.5
	Components for re-use	0.0	0.0	0.0	0.0	0.0	0.0
	Materials for recycling	0.8	0.5	0.0	0.0	0.0	1.0
	Materials for energy recovery	0.0	0.0	0.0	0.0	0.0	0.0
	Exported energy	0.0	0.0	0.0	0.0	0.0	0.0
	Total use of primary energy during the life cycle	0.7	0.6	0.7	1.0	1.0	1.0
	Biogenic carbon content of the product	0.0	0.0	0.0	0.0	0.0	0.0
	Biogenic carbon content of the associated packaging	1.0	1.0	0.0	0.0	0.0	0.0

# Product Environmental Profile

Linkeo c patch panel equipped with 24 RJ45  
Keystone categorie 5e STP



Associated references	Coefficient of extrapolation of environmental indicators						
	Total life Cycle	Manufacturing	Distribution	Installation	Use	End of life	
<b>LG-632928 + 632850</b>  RJ45 catégorie 5e UTP Keystone/X24 Linkeo C Series + Patch panel	Climate change - total	0.4	0.3	0.7	1.0	1.0	1.0
	Climate change - fossil fuels	0.4	0.3	0.7	1.0	1.0	1.0
	Climate change - biogenics	1.0	1.0	0.0	1.0	1.0	0.5
	Climate change - land use and land use transformation	1.4	1.4	0.0	0.0	0.0	0.5
	Ozone depletion	0.5	0.5	0.7	1.0	1.0	0.8
	Acidification (AP)	0.4	0.3	0.7	1.0	1.0	0.9
	Freshwater eutrophication	0.5	0.5	0.7	1.0	1.0	0.5
	Marine aquatic eutrophication	0.5	0.4	0.7	1.0	1.0	1.0
	Terrestrial eutrophication	0.5	0.4	0.7	1.0	1.0	1.0
	Photochemical ozone formation	0.5	0.4	0.7	1.0	1.0	1.0
	Depletion of abiotic resources - elements	0.9	0.9	0.7	1.0	1.0	0.5
	Depletion of abiotic resources - fossil fuels	0.7	0.6	0.7	1.0	1.0	1.0
	Water requirement	0.7	0.7	0.7	1.0	1.0	0.9
	Emission of fine particles	0.4	0.3	0.7	1.0	1.0	1.0
	Ionizing radiation, human health	0.8	0.8	0.7	1.0	1.0	1.1
	Ecotoxicity (fresh water)	0.1	0.2	0.7	1.0	1.0	0.0
	Human toxicity, carcinogenic effects	0.9	0.9	0.7	1.0	1.0	0.5
	Human toxicity, non-carcinogenic effects	0.4	0.4	0.7	1.0	1.0	0.3
	Impacts related to land use/soil quality	0.9	1.2	0.0	1.0	1.0	0.5
	Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	1.0	0.9	0.7	1.0	1.0	1.0
	Use of renewable primary energy resources used as raw materials	0.9	0.9	0.0	0.0	0.0	0.0
	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	0.9	0.9	0.7	1.0	1.0	1.0
	Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	0.7	0.6	0.7	1.0	1.0	1.0
	Use of non-renewable primary energy resources used as raw materials	1.5	1.5	0.0	0.0	0.0	0.0
	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	0.7	0.6	0.7	1.0	1.0	1.0
	Use of secondary materials	1.0	1.0	0.0	0.0	0.0	0.0
	Use of renewable secondary fuels	0.0	0.0	0.0	0.0	0.0	0.0
	Use of non-renewable secondary fuels	0.0	0.0	0.0	0.0	0.0	0.0
	Net use of fresh water	0.7	0.7	0.7	1.0	1.0	0.9
	Hazardous waste disposed of	0.7	0.7	0.0	1.0	1.0	0.7
	Non-hazardous waste disposed of	0.4	0.4	0.7	1.0	1.0	0.6
	Radioactive waste disposed of	0.4	0.4	0.7	1.0	1.0	0.5
	Components for re-use	0.0	0.0	0.0	0.0	0.0	0.0
	Materials for recycling	0.8	0.5	0.0	0.0	0.0	1.0
	Materials for energy recovery	0.0	0.0	0.0	0.0	0.0	0.0
	Exported energy	0.0	0.0	0.0	0.0	0.0	0.0
	Total use of primary energy during the life cycle	0.7	0.6	0.7	1.0	1.0	1.0
	Biogenic carbon content of the product	0.0	0.0	0.0	0.0	0.0	0.0
	Biogenic carbon content of the associated packaging	1.0	1.0	0.0	0.0	0.0	0.0

# Product Environmental Profile

Linkeo c patch panel equipped with 24 RJ45  
Keystone categorie 5e STP



Associated references	Coefficient of extrapolation of environmental indicators						
	Total life Cycle	Manufacturing	Distribution	Installation	Use	End of life	
	Climate change - total	1.1	1.1	1.1	0.9	1.0	1.1
	Climate change - fossil fuels	1.1	1.1	1.1	0.9	1.0	1.1
	Climate change - biogenics	1.2	0.9	0.0	0.9	1.0	1.1
	Climate change - land use and land use transformation	1.0	1.0	0.0	0.0	0.0	1.0
	Ozone depletion	1.1	1.1	1.1	0.9	1.0	1.2
	Acidification (AP)	1.0	1.0	1.1	0.9	1.0	1.1
	Freshwater eutrophication	1.0	1.1	1.1	0.9	1.0	1.0
	Marine aquatic eutrophication	1.1	1.1	1.1	0.9	1.0	1.1
	Terrestrial eutrophication	1.1	1.1	1.1	0.9	1.0	1.2
	Photochemical ozone formation	1.1	1.1	1.1	0.9	1.0	1.1
	Depletion of abiotic resources - elements	1.0	1.0	1.1	0.9	1.0	1.0
	Depletion of abiotic resources - fossil fuels	1.1	1.1	1.1	0.9	1.0	1.0
	Water requirement	1.0	1.0	1.1	0.9	1.0	1.0
	Emission of fine particles	1.0	1.0	1.1	0.9	1.0	1.1
	Ionizing radiation, human health	1.0	1.0	1.1	0.9	1.0	1.5
	Ecotoxicity (fresh water)	0.1	0.3	1.1	0.9	1.0	0.0
	Human toxicity, carcinogenic effects	1.7	1.7	1.1	0.9	1.0	0.9
	Human toxicity, non-carcinogenic effects	1.0	1.0	1.1	0.9	1.0	0.5
	Impacts related to land use/soil quality	1.0	1.0	0.0	0.9	1.0	1.0
<b>LG-632898</b> Patch panel with metal cable holder + set of 24 RJ45 category 5e STP	Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	1.2	1.3	1.1	0.9	1.0	1.4
	Use of renewable primary energy resources used as raw materials	0.9	0.9	0.0	0.0	0.0	0.0
	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.0	1.0	1.1	0.9	1.0	1.4
	Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	1.0	1.0	1.1	0.9	1.0	1.0
	Use of non-renewable primary energy resources used as raw materials	1.9	1.9	0.0	0.0	0.0	0.0
	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.1	1.1	1.1	0.9	1.0	1.0
	Use of secondary materials	1.0	1.0	0.0	0.0	0.0	0.0
	Use of renewable secondary fuels	0.0	0.0	0.0	0.0	0.0	0.0
	Use of non-renewable secondary fuels	0.0	0.0	0.0	0.0	0.0	0.0
	Net use of fresh water	1.0	1.0	1.1	0.9	1.0	1.0
	Hazardous waste disposed of	1.0	1.0	0.0	0.9	1.0	1.2
	Non-hazardous waste disposed of	1.1	1.1	1.1	0.9	1.0	1.1
	Radioactive waste disposed of	1.1	1.1	1.1	0.9	1.0	1.0
	Components for re-use	0.0	0.0	0.0	0.0	0.0	0.0
	Materials for recycling	1.1	1.0	0.0	0.0	0.0	1.1
	Materials for energy recovery	0.0	0.0	0.0	0.0	0.0	0.0
	Exported energy	0.0	0.0	0.0	0.0	0.0	0.0
	Total use of primary energy during the life cycle	1.1	1.1	1.1	0.9	1.0	1.0
	Biogenic carbon content of the product	0.0	0.0	0.0	0.0	0.0	0.0
	Biogenic carbon content of the associated packaging	0.9	0.9	0.0	0.0	0.0	0.0

# Product Environmental Profile

Linkeo c patch panel equipped with 24 RJ45  
Keystone categorie 5e STP



Associated references	Coefficient of extrapolation of environmental indicators						
	Total life Cycle	Manufacturing	Distribution	Installation	Use	End of life	
	Climate change - total	0.5	0.4	0.8	0.9	1.0	1.1
	Climate change - fossil fuels	0.5	0.4	0.8	0.9	1.0	1.1
	Climate change - biogenics	1.2	0.9	0.0	0.9	1.0	0.6
	Climate change - land use and land use transformation	1.4	1.4	0.0	0.0	0.0	0.5
	Ozone depletion	0.6	0.5	0.8	0.9	1.0	1.0
	Acidification (AP)	0.4	0.3	0.8	0.9	1.0	1.0
	Freshwater eutrophication	0.5	0.5	0.8	0.9	1.0	0.5
	Marine aquatic eutrophication	0.6	0.5	0.8	0.9	1.0	1.1
	Terrestrial eutrophication	0.6	0.5	0.8	0.9	1.0	1.1
	Photochemical ozone formation	0.5	0.4	0.8	0.9	1.0	1.1
	Depletion of abiotic resources - elements	0.9	0.9	0.8	0.9	1.0	0.5
	Depletion of abiotic resources - fossil fuels	0.7	0.7	0.8	0.9	1.0	1.0
	Water requirement	0.8	0.8	0.8	0.9	1.0	0.9
	Emission of fine particles	0.4	0.3	0.8	0.9	1.0	1.1
	Ionizing radiation, human health	0.8	0.8	0.8	0.9	1.0	1.5
	Ecotoxicity (fresh water)	0.1	0.3	0.8	0.9	1.0	0.0
	Human toxicity, carcinogenic effects	0.9	0.9	0.8	0.9	1.0	0.5
	Human toxicity, non-carcinogenic effects	0.4	0.4	0.8	0.9	1.0	0.4
	Impacts related to land use/soil quality	0.9	1.2	0.0	0.9	1.0	0.5
LG-632899 Patch panel with metal cable holder + set of 24 RJ45 category 5e UTP	Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	1.2	1.3	0.8	0.9	1.0	1.4
	Use of renewable primary energy resources used as raw materials	0.8	0.8	0.0	0.0	0.0	0.0
	Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	0.9	0.9	0.8	0.9	1.0	1.4
	Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	0.7	0.6	0.8	0.9	1.0	1.0
	Use of non-renewable primary energy resources used as raw materials	2.4	2.4	0.0	0.0	0.0	0.0
	Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	0.7	0.7	0.8	0.9	1.0	1.0
	Use of secondary materials	1.0	1.0	0.0	0.0	0.0	0.0
	Use of renewable secondary fuels	0.0	0.0	0.0	0.0	0.0	0.0
	Use of non-renewable secondary fuels	0.0	0.0	0.0	0.0	0.0	0.0
	Net use of fresh water	0.8	0.8	0.8	0.9	1.0	0.9
	Hazardous waste disposed of	0.8	0.7	0.0	0.9	1.0	0.9
	Non-hazardous waste disposed of	0.6	0.5	0.8	0.9	1.0	0.8
	Radioactive waste disposed of	0.5	0.5	0.8	0.9	1.0	0.6
	Components for re-use	0.0	0.0	0.0	0.0	0.0	0.0
	Materials for recycling	0.9	0.5	0.0	0.0	0.0	1.1
	Materials for energy recovery	0.0	0.0	0.0	0.0	0.0	0.0
	Exported energy	0.0	0.0	0.0	0.0	0.0	0.0
	Total use of primary energy during the life cycle	0.7	0.7	0.8	0.9	1.0	1.0
	Biogenic carbon content of the product	0.0	0.0	0.0	0.0	0.0	0.0
	Biogenic carbon content of the associated packaging	0.9	0.9	0.0	0.0	0.0	0.0

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Verifier accreditation N°: <b>VH08</b>	Information and reference documents: <b>www.pep-ecopassport.org</b>
Date of issue: <b>06-2024</b>	Validity period: <b>5 years</b>
<b>Independent verification of the declaration and data, in compliance with ISO 14025 : 2006</b>	
Internal <input type="checkbox"/> External <input checked="" type="checkbox"/>	
The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)	
PEP are compliant with NF C08-100-1 :2016 and EN 50693 :2019 or NF E38-500 :2022	
The elements of the present PEP cannot be compared with elements from another program	
Document in compliance with ISO 14025 : 2006: «Environmental labels and declarations. Type III environmental declarations»	

Environmental data in alignment with EN 15804: 2012 + A2 : 2019