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Product Environmental Profile

RJ45 Socket Category 5E Keystone LCS UTP





■ 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 ■

Function	Protect, link by a connection point for 10 years (reference service life) with a 25% use rate for an application LAN: Tertiary.
Reference Product	
	Cat.No LG-033180
	Keystone RJ45 UPT cat 5E LCS

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:

Catalogue Numbers
LG-033180 - LG-076587





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■ CONSTITUENT MATERIALS I

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.

Total weight of	
Reference Product	0.015 kg (all packaging included)

Product alone weight 0.007 kg								
Plastics as % of weight		Metals as % of weight		Other as % of weight				
PC	26.5 %	Copper and copper alloys	4.4 %	PWB < 10cm ²	5.7 %			
PBT	8.1 %							
PA	3.1 %							
PE	1.3 %							
PS	<0.1 %							

Packaging (alone) : 0.008 kg									
PE	0.5 %			Cardboard	23.6 %				
				Wood	23.4 %				
				Paper	3.4 %				
Total plastics : 0.006 kg	39.5 %	Total metals : 0.001 kg	4.4 %	Total others : 0.008 kg	56.1 %				

At the date of edition of this document, the content of recycled material(s) is:

- Product alone (excluding packaging): 4% by mass
- Packaging only: 45% 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 1096 km by truck, 453 km by plane and 15 km by ship from our warehouse to the local point of distribution into the market all around the world.

Packaging is compliant with applicable regulation.



INSTALLATION I

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



USE I

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



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■ END OF LIFE I

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.



■ 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:

	Manufacture A1-A3	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.
	Distribution A4	Transport between the last Group distribution centre and an average delivery point in the sales area.
n Limit	Installation A5	The end of life of the packaging.
System	Use B1-B7	 Product category: Copper telecom accessories. Use scenario: LAN tertiary, non-continuous operation for 10 years, cat 5E for 25% of the time. TThis modelling duration does not constitute a minimum durabilty requirement. Energy model: Electricity Mix_Low voltage_2018_China_CN.
	End of life C1-C4	Choice of end-of-life by default model for PCR-ed4-EN-2021 09 06
D Mo	dule	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 loads beyond the boundaries of the system, and are not to be included in the life cycle totals.
Softv base	vare and data- used	The indicators set used is « Indicators for PEF EF 3.0 (compliance: PEP ed.4, EN15804+A2) v2.0 » EIME V6 & its database CODDE-2023-02

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



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■ ENVIRONMENTAL IMPACTS I

	Total Life Cycle		Manufacturing Dist	Distribution	Installation		End of Life		
	- Total L	Oyolo	A1-A3	A4	A5	Total B1-B7	B2	В6	C1-C4
Climate change - total	1.57E-01	kg CO2 eq.	9.38E-02	1.50E-02	7.81E-04	2.72E-02	0*	2.72E-02	2.00E-02
Climate change - fossil fuels	1.55E-01	kg CO2 eq.	9.23E-02	1.50E-02	7.81E-04	2.72E-02	0*	2.72E-02	1.99E-02
Climate change - biogenics	1.67E-03	kg CO2 eq.	1.58E-03	0*	0*	3.90E-06	0*	3.90E-06	8.50E-05
Climate change - land use and land use transformation	3.81E-06	kg CO2 eq.	3.81E-06	0*	0*	0*	0*	0*	1.43E-09
Ozone depletion	6.77E-09	kg.equivalent. CFC-11	6.40E-09	1.77E-11	1.21E-11	1.55E-10	0*	1.55E-10	1.87E-10
Acidification (AP)	9.35E-04	mole of H+ equiv	6.45E-04	6.43E-05	5.63E-06	2.04E-04	0*	2.04E-04	1.64E-05
Freshwater eutrophication	3.84E-06	kg P eq.	1.13E-06	5.32E-09	1.54E-09	5.75E-09	0*	5.75E-09	2.69E-06
Marine aquatic eutrophication	1.30E-04	kg of N equiv	7.39E-05	2.90E-05	2.65E-06	2.18E-05	0*	2.18E-05	2.52E-06
Terrestrial eutrophication	1.43E-03	mole of N equiv	8.03E-04	3.18E-04	2.77E-05	2.47E-04	0*	2.47E-04	3.59E-05
Photochemical ozone formation	4.73E-04	kg of NMVOC equiv	3.07E-04	7.79E-05	6.73E-06	7.28E-05	0*	7.28E-05	7.81E-06
Depletion of abiotic resources - elements	2.41E-05	kg.equivalent. Sb	2.40E-05	0*	0*	0*	0*	0*	6.78E-08
Depletion of abiotic resources - fossil fuels	2.40E+00	МЈ	1.72E+00	2.10E-01	7.11E-03	4.40E-01	0*	4.40E-01	2.26E-02
Water requirement	4.27E-02	m3 of equiv. deprivation worldwide	3.67E-02	5.95E-05	7.08E-04	1.20E-03	0*	1.20E-03	4.03E-03
Emission of fine particles	5.54E-09	incidence of diseases	3.89E-09	4.09E-10	2.98E-11	1.11E-09	0*	1.11E-09	9.78E-11

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

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

Module D

4.14E-03 3.45E-03 6.96E-04 0.00E+00 6.53E-11 -7.41E-06 5.79E-08 5.60E-06 4.48E-05 1.01E-05 -3.53E-06 4.71E-02 3.07E-04 -5.13E-11

⁽¹⁾ 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		End of Life		
	iotai i	Liio Oyolo	A1-A3	A4	A5	Total B1-B7	B2	В6	C1-C4
Ionizing radiation. human health	1.43E+00	kBq of U235 equiv.	1.43E+00	0*	0*	3.23E-03	0*	3.23E-03	3.13E-04
Ecotoxicity (fresh water)	1.19E+01	CTUe	1.10E+01	9.79E-03	4.53E-02	5.13E-01	0*	5.13E-01	2.37E-01
Human toxicity. carcinogenic effects	9.12E-09	CTUh	9.05E-09	0*	6.00E-11	3.48E-12	0*	3.48E-12	7.20E-12
Human toxicity. non-carcinogenic effects	5.24E-09	CTUh	4.79E-09	1.28E-11	2.10E-11	1.98E-10	0*	1.98E-10	2.21E-10
Impacts related to land use/soil quality	2.42E-02	-	1.61E-02	0*	0*	7.89E-05	0*	7.89E-05	7.99E-03
Use of renewable primary energy. excluding renewable primary energy resources used as raw materials	1.26E-01	МЈ	7.72E-02	2.38E-04	0*	4.66E-02	0*	4.66E-02	2.30E-03
Use of renewable primary energy resources used as raw materials	8.85E-02	МЈ	8.85E-02	0*	0*	0*	0*	0*	0*
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	2.15E-01	МЈ	1.66E-01	2.38E-04	0*	4.66E-02	0*	4.66E-02	2.30E-03
Use of non-renewable primary energy. excluding non-renewable primary energy resources used as raw materials	2.24E+00	МЈ	1.56E+00	2.10E-01	7.11E-03	4.40E-01	0*	4.40E-01	2.26E-02
Use of non-renewable primary energy resources used as raw materials	1.55E-01	MJ	1.55E-01	0*	0*	0*	0*	0*	0*
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	2.40E+00	МЈ	1.72E+00	2.10E-01	7.11E-03	4.40E-01	0*	4.40E-01	2.26E-02

Module D -4.25E-02 6.93E-02 3.88E-09 -3.43E-10 3.73E-05 -1.35E-02 5.97E-02 4.62E-02 4.51E-02 1.98E-03 4.71E-02

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

⁽¹⁾ 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 I	ife Cycle	Manufacturing	Distribution	Installation		End of Life		
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4
Use of secondary materials	3.74E-03	kg	3.74E-03	0*	0*	0*	0*	0*	0*
Use of renewable secondary fuels	0.00E+00	МЈ	0*	0*	0*	0*	0*	0*	0*
Use of non-renewable secondary fuels	0.00E+00	МЈ	0*	0*	0*	0*	0*	0*	0*
Net use of fresh water	1.04E-03	m3	8.99E-04	1.38E-06	1.65E-05	2.80E-05	0*	2.80E-05	9.39E-05
Hazardous waste disposed of	4.45E-01	kg	4.37E-01	0*	0*	8.27E-04	0*	8.27E-04	7.12E-03
Non-hazardous waste disposed of	6.78E-02	kg	4.94E-02	4.49E-04	7.60E-03	4.74E-03	0*	4.74E-03	5.58E-03
Radioactive waste disposed of	3.04E-05	kg	2.92E-05	2.88E-07	1.52E-08	1.94E-07	0*	1.94E-07	7.64E-07
Components for re-use	0.00E+00	kg	0*	0*	0*	0*	0*	0*	0*
Materials for recycling	6.77E-04	kg	2.21E-04	0*	0*	0*	0*	0*	4.56E-04
Materials for energy recovery	0.00E+00	kg	0*	0*	0*	0*	0*	0*	0*
Exported energy	0.00E+00	MJ by energy vector	0*	0*	0*	0*	0*	0*	0*
Total use of primary energy during the life cycle	2.61E+00	МЈ	1.88E+00	2.10E-01	7.11E-03	4.87E-01	0*	4.87E-01	2.49E-02

Module D
0.00E+00
0.00E+00
0.00E+00
7.15E-06
-2.48E-02
2.24E-03
1.01E-06
0.00E+00
0.00E+00
0.00E+00
0.00E+00
9.33E-02

Biogenic carbon content of the product	0.00E+00	kg of C.	0*	0*	0*	0*	0*	0*	0*
Biogenic carbon content of the associated packaging	2.55E-03	kg of C.	2.55E-03	0*	0*	0*	0*	0*	0*

0.00E+00 0.00E+00

For biogenic carbon storage, the methodology use is 0/0

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

 $The \ values \ of the \ indicators \ defined \ in \ the \ PCR-ed4-EN-2021 \ 09 \ 06 \ are \ available \ in \ the \ digital \ database \ of \ pep-ecopass port. or g \ website.$

For products covered by the PEP other than the Reference product, the environmental impacts of each phase of the lifecycle are assimilated to the impacts of the Reference Product.

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

⁽¹) 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



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

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Registration number: LGRP-01852-V01.01-EN	Drafting rules: «PEP-PCR-ed4-EN-2021 09 06» Supplemented by «PSR-0005-ed3-2022 06 06»	
Verifier accreditation N°: VH02	Information and reference documents: www.pep-ecopassport.	org
Date of issue: 11-2023	Validity period: 5 years	
Independent verification of the declaration and data, in complia	ance with ISO 14025 : 2006	
Internal ⊠ External □	PE	P
The PCR review was conducted by a panel of experts chaired by Julie C		
PEP are compliant with XP C08-100-1 :2016 or EN 50693 :2019 The elements of the present PEP cannot be compared with elements for	<i> </i>	_
Document in compliance with ISO 14025 : 2006: «Environmental labels Type III environmental declarations»	and declarations.	n I ®