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Product Environmental Profile

Patch panels equipped with 48 RJ 45 connectors LCS³ - 19" - 1U - Cat.6 / Cat.5e - UTP/FTP





■ 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	To protect and connect a connection point during 10 years (référence lifetime) with a 25 % use rate for a copper telecom accessory for a Tertiary LAN application.			
Reference Product				
	Cat.Nos 8 x 0 337 64 - 1 x 0 337 93			
	8 x HIGH DENSITY RJ 45 CONNECTORS FOR FLAT AND ANGLED PANEL LCS ³ - CAT.6 FTP + 1 x FLAT HIGH DENSITY 48 CONNECTOR PATCH PANEL LCS ³ - 19" - 1U TO BE EQUIPPED			

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:

Connectors for panel	Flat high density 48P connector patch panel LCS ³			
• (8 x) 0 337 64 • (8 x) 0 337 63 • (8 x) 0 337 53 • (8 x) 0 337 54	• (1 x) 0 337 93			



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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.

Total weight of Reference Product	64 g (all packaging included)					
Plastics as % of weight		Metals as % of weight		Other as % of weight		
DC	10.20/	Charl	2/20/	Flashers's sand	4.0.0/	

PC	18.3 %	Steel	34.2 %	Electronic card	1.0 %		
PBT	3.8 %	Copper alloys	opper alloys 3.0 %				
ABS	3.0 %	Zamak	1.5 %				
PA	1.8 %	Others metals	1.0 %				
PS	0.7 %						
PP	<0.1 %						
PP	<0.1 %						
		Packaging as %	of weight				
				Paper	28.0 %		
				Wood	3.7 %		
Total plastics	27.6 %	Total metals	39.7 %	Total others	32.7 %		

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 538 Km by Road - 437 Km by Boat - 634 Km by Plane from our warehouse to the local point of distribution into the market in 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 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. This product falls within the scope of the WEEE directive (2012/19/EU). Therefore it must be processed through local WEEE recycling/recovery channels.

• Extended producer responsability:

The sale of this product is subject to a contribution to eco-organisations in each country responsible for managing end-of-life products in the field of application of the European Waste Electronic and Electrical Equipment Directive.

• Recyclability rate:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 96 %. 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:

: 26 % - plastic materials (excluding packaging) - metal materials (excluding packaging) : 39 % - other materials (excluding packaging) : 0 % : 31 % - packaging (all types of materials)



■ ENVIRONMENTAL IMPACTS I

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 worlwide marketed products.

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

Manufacture	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.				
Distribution	Transport between the last Group distribution centre and an average delivery point in the sales area.				
Installation	The end of life of the packaging.				
Use	 Product category: PSR0005-ed2-EN-2016_03_29 - Electrical_swichgear_and_control_gear_solutions 21 11; §3.8.1.2 «copper telecom acessories». Use scenario: non-continuous operation for 10 years of working life, during 25 % of the time (for building LAN tertiary applications). 2.3 mW of energy losses (determined by standard for 1G Ethernet Cat6). This modelling duration does not constitute a minimum durabilty requirement. Energy model: Electricity Mix; China - 2009. 				
End of life	The default end of life scenario maximizing the impacts.				
Software and database used	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	
Global warming	3.64E-01	kgCO ₂ eq.	2.22E-01	61 %	8.61E-02	24 %	1.22E-03	< 1 %	5.12E-02	14 %	3.81E-03	1 %
Ozone depletion	1.39E-08	kgCFC-11 eq.	1.33E-08	96 %	1.33E-10	< 1 %	7.82E-12	< 1 %	4.08E-10	3 %	6.64E-11	< 1 %
Acidification of soils and water	7.88E-04	kgSO ₂ eq.	4.41E-04	56 %	2.71E-04	34 %	5.94E-06	< 1 %	5.55E-05	7 %	1.52E-05	2 %
Water eutrophication	7.57E-04	kg(PO ₄)³- eq.	6.57E-04	87 %	5.87E-05	8 %	5.95E-06	< 1 %	1.47E-05	2 %	2.09E-05	3 %
Photochemical ozone formation	7.78E-05	kgC ₂ H ₄ eq.	5.11E-05	66 %	1.86E-05	24 %	4.19E-07	< 1 %	6.56E-06	8 %	1.16E-06	1 %
Depletion of abiotic resources - elements	1.39E-04	kgSb eq.	1.39E-04	100 %	3.44E-09	< 1 %	5.27E-11	< 1 %	2.25E-10	< 1 %	2.09E-10	< 1 %
Total use of primary energy	6.67E+00	MJ	4.56E+00	68 %	1.22E+00	18 %	1.68E-02	< 1 %	8.38E-01	13 %	4.41E-02	< 1 %
Net use of fresh water	2.28E-02	m³	2.27E-02	100 %	8.04E-06	< 1 %	3.57E-07	< 1 %	5.72E-05	< 1 %	2.35E-06	< 1 %
Depletion of abiotic resources - fossil fuels	4.43E+00	МЛ	2.39E+00	54 %	1.21E+00	27 %	1.64E-02	< 1 %	7.74E-01	17 %	4.11E-02	< 1 %
Water pollution	7.17E+01	m³	5.43E+01	76 %	1.42E+01	20 %	1.90E-01	< 1 %	2.55E+00	4 %	4.78E-01	< 1 %
Air pollution	4.50E+01	m³	3.74E+01	83 %	1.79E+00	4 %	1.44E-01	< 1 %	5.31E+00	12 %	3.52E-01	< 1 %

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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■ SELECTION OF ENVIRONMENTAL IMPACTS (CONTINUED) I

The impacts are calculated for one connector RJ45, according to PSR-0005-ed2-FR-2016 03 29.

To know the values of the environmental impacts of the products concerned other than the reference product, multiply the values of environmental indicators by the following corresponding factors

The R	eference Product: 0 337	7 64 with 0 337 9	93		
	SET OF 6 HIGH DENSIT OR FLAT AND ANGLED LCS3 - CA	PANEL W			
PATCH PANEL	IGH DENSITY 48P CONN LCS3 19" 1 U TO BE EQU t of extrapolation of env	JIPPED 🞏	cators	•	
Associated References	Manufacturing		Installation	Use	End of Life
0 337 63 with 0 337 93					
0 337 53 with 0 337 93				1	
0 337 54 with 0 337 93	1	I		1	1

Impacts are calculated for 1 connection point.

For the Reference Product's impacts multiply by the number of connection points (= 48).

For the other products concerned by this PEP, multiply by the coeff and by the number of connection points of the cat number.

Registration number: LGRP-01193-V01.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0005-ed2-2016 03 29»			
Verifier accreditation N°: VH02	Information and reference documents: www.pep-ecopassport.org			
Date of issue: 06-2020	Validity period: 5 years			
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010 Internal External ■				
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				