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# **Product Environmental Profile**

Modular panel 19-inch LCS3 fitted with supports for Slim cassette - Depth 182 mm \_ 393 mm - Height 1U \_ 2U \_ 4U





### ■ 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 connect and link a connection Application in residential building		·	elecommunication.	
Reference Product	A A A	3	MOnd		
	(1x) 0 321 75	(4x) 0 321 38	(1x) 0 321 78	(8x) 0 321 69	
	<ul> <li>[1x] Modular panel 19-inch LCS3 to be fitted with 4 supports for Slim cassette - Depth 182 mm - Height 1U</li> <li>[4x] Cassette support High Density slim LCS3</li> <li>[1x] Cords management KIT</li> <li>[8x] Slim High Density MTP cassette for LCS3 OM4 multimode 12 strands LC modular panel</li> </ul>				

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**

• 0 321 75 - 0 321 76 - 0 321 77 - 0 321 68 - 0 321 70





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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  69 g (all packaging included)	Total weight of Reference Product	69 g (all packaging included)
------------------------------------------------------------------	--------------------------------------	-------------------------------

Plastics as % of weight		Metals as % of weight		Other as % of weight	
PC	11.1 %	Steel	21.5 %	Ceramic	0.1 %
Other plastics	2.5 %	Other metals	5.1 %		
ABS	0.9 %	Zamak	0.7 %		
PA	0.6 %	Various metals	< 0.1 %		
PU	0.2 %				
PBT	0.1 %				
PP	< 0.1 %				
Various plastics	< 0.1 %				
	<u> </u>	Packaging as % of weight			<u> </u>
PE	0.3 %			Paper	36.2 %
PP	< 0.1 %			Wood	20.6 %
Total plastics	15.8 %	Total metals	27.2 %	Total others	56.9 %

Estimated recycled material content: 31 % by mass.

For 1 unit of ref. 0 321 76 and 8 unit of ref. 0 321 38 and 16 unit of ref. 0 321 69

Total weight of	
Reference Product	81 g (all packaging included)

Plastics as % of weight		Metals as % of weight		Other as % of weight	
PC	9.7 %	Steel	26.6 %	Ceramic	< 0.1 %
Other plastics	2.1 %	Other metals	0.6 %		
ABS	0.8 %	Zamak	0.3 %		
PA	0.5 %	Various metals	< 0.1 %		
PU	0.2 %				
PBT	0.1 %				
PE	0.1 %				
PP	< 0.1 %				
Various plastics	< 0.1 %				
		Packaging as % of weight			'
PP	< 0.1 %			Wood	31.3 %
Other packaging plastics	< 0.1 %			Paper	27.7 %
Total plastics	13.5 %	Total metals	27.5 %	Total others	59.0 %

Estimated recycled material content: 24 % by mass.



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### **■ CONSTITUENT MATERIALS (SUITE)**

For 1 unit of ref. 0 321 77 and 16 unit of ref. 0 321 38 and 32 unit of ref. 0 321 69

Total weight of	
Reference Product	70 g (all packaging included)

Plastics as % of weight		Metals as % of weight		Other as % of weight	
PC	11.2 %	Steel	29.2 %	Ceramic	0.1 %
Other plastics	2.5 %	Other metals	0.7 %		
ABS	0.9 %	Zamak	0.2 %		
PA	0.6 %	Various metals	< 0.1 %		
PU	0.2 %				
PBT	0.1 %				
PE	0.1 %				
PP	< 0.1 %				
Various plastics	< 0.1 %				
		Packaging as % of w	eight	'	<u>'</u>
PE	0.2 %			Paper	29.0 %
Other packaging plastics	< 0.1 %			Wood	25.0 %
Total plastics	15.9 %	Total metals	30.0 %	Total others	54.1 %

Estimated recycled material content: 25 % by mass.



### MANUFACTURE

The Reference Product comes from sites that, in their majority, 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 780 km by road from our warehouse to the local point of distribution into the market in Europe. Packaging is compliant with European directive 2004/12/EU concerning packaging and packaging waste. At their end of life, its recyclability rate is 98 % (in % of packaging weight).



### INSTALLATION INSTALLATION

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



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.

#### • 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 95 %. 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)
metal materials (excluding packaging)
other materials (excluding packaging)
packaging (all types of materials)
: 56 %



### ■ 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 products marketed and used in Europe, in compliance with the local current standards. 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	<ul> <li>Product category: PSR-0001-ed3-EN-2015 10 16 - 6.2. Optical Telecom accessories.</li> <li>Use scenario: for a 10 years working life, 0.109mW losses at 25 % use rate. This modelling duration does not constitute a minimum durabilty requirement.</li> <li>Energy model: Electricity Mix; Europe 27 - 2008.</li> </ul>					
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 l	ife cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	•
Global warming	2.28E-01	kgCO <sub>2</sub> eq.	2.19E-01	96 %	2.69E-03	1 %	2.30E-03	1 %	1.17E-03	< 1 %	2.51E-03	1 %
Ozone depletion	4.81E-08	kgCFC-11 eq.	4.80E-08	100 %	5.44E-12	< 1 %	1.28E-11	< 1 %	7.62E-11	< 1 %	4.10E-11	< 1 %
Acidification of soils and water	4.53E-04	kgSO <sub>2</sub> eq.	4.15E-04	92 %	1.21E-05	3 %	1.09E-05	2 %	4.88E-06	1 %	1.01E-05	2 %
Water eutrophication	4.93E-04	kg(PO <sub>4</sub> )³- eq.	4.67E-04	95 %	2.78E-06	< 1 %	9.09E-06	2 %	2.95E-07	< 1 %	1.42E-05	3 %
Photochemical ozone formation	4.42E-05	kgC₂H₄ eq.	4.15E-05	94 %	8.58E-07	2 %	7.74E-07	2 %	2.68E-07	< 1 %	7.71E-07	2 %
Depletion of abiotic resources - elements	1.72E-06	kgSb eq.	1.72E-06	100 %	1.08E-10	< 1 %	9.79E-11	< 1 %	1.02E-10	< 1 %	1.35E-10	< 1 %
Total use of primary energy	4.24E+00	МЛ	4.11E+00	97 %	3.80E-02	< 1 %	3.18E-02	< 1 %	2.34E-02	< 1 %	2.94E-02	< 1 %
Net use of fresh water	1.47E-02	m³	1.05E-02	71 %	2.41E-07	< 1 %	5.75E-07	< 1 %	4.24E-03	29 %	1.46E-06	< 1 %
Depletion of abiotic resources - fossil fuels	2.24E+00	МЈ	2.13E+00	95 %	3.78E-02	2 %	3.11E-02	1 %	1.33E-02	< 1 %	2.75E-02	1 %
Water pollution	3.93E+01	m³	3.82E+01	97 %	4.42E-01	1 %	3.61E-01	< 1 %	4.83E-02	< 1 %	3.20E-01	< 1 %
Air pollution	2.73E+01	m³	2.67E+01	98 %	1.10E-01	< 1 %	2.29E-01	< 1 %	5.03E-02	< 1 %	2.23E-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. The effective impact of the product shall be calculated by the PEP user multiplying impacts by the number of product connection points.



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### ■ SELECTION OF ENVIRONMENTAL IMPACTS (SUITE) I

Extrapolation rule:

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 Reference Product: 0 321 75

0 321 75: Modular panel 19-inch LCS3 to be fitted with 4 supports for Slim cassette - Depth 182 mm - Height 1U with 0 321 38: Cassette support High Density slim LCS<sup>3</sup> with 0 321 69: Cords management KIT (for Modular panel reference 0 321 75)

Coefficient of extrapolation of environmental indicators

Associated References	Manufacturing	Distribution	Installation	Use	End of line	
0 321 76	ADPe 0.4	4.2	4.4	4	1.1	
+ 0 321 38 + 0 321 69	Others indicators	1.2	1.1	I	1.1	
0 321 77	ADPe 0.4	1	0.0	4	1.1	
+ 0 321 38 + 0 321 69	Others indicators	I	0.9	1 1.1		
<b>0 321 68</b> + 0 321 75						
+ 0 321 38						
+ 0 321 78	_ 1	1	1	1	1	
0 321 70		ı	'			
+ 0 321 75						
+ 0 321 38						
+ 0 321 78						

Impacts are calculated for 1 connection point.

For the Reference Product's impacts multiply by the number of connection points (= 96).

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

Registration N°: LGRP-01273-V01.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0001-ed3-2015 10 16»			
Verifier accreditation N°: VH02	Information and reference documents: www.pep-ecopassport.org			
Date of issue: 05-2021	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 Phili				
PEP are compliant with XP C08-100-1 : 2014 The elements of the present PEP cannot be compared with elements	from another program   CO   PASS			
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				