

# Product Environmental Profile

Set of 6 high density RJ 45 connectors - CAT.6 A STP / UTP mounted on the cassette and in a patch panel LCS<sup>3</sup>



## 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>	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.
<b>Reference Product</b>	 <p>Cat.No (8 x) 0 337 75 + (1 x) 0 337 91 + (4 x) 0 337 95</p> <p>(8 x) SET OF 6 HIGH DENSITY RJ 45 CONNECTORS FOR FLAT AND ANGLED PANEL LCS<sup>3</sup> - CAT.6 A STP + (1 x) FLAT CONNECTOR PATCH PANEL LCS<sup>3</sup> 19P 1U TO BE EQUIPPED WITH CASSETTE + (4 x) HIGH DENSITY CASSETTE FOR FLAT PANELS LCS<sup>3</sup> TO BE EQUIPPED(8 x)</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.



## PRODUCTS CONCERNED

The environmental data is representative of the following products:

Product 0 337 75						
0 337 75 SET OF 6 HIGH DENSITY RJ 45 CONNECTORS FOR FLAT AND ANGLED PANEL LCS <sup>3</sup> CAT.6 A STP	0 337 73 SET OF 6 HIGH DENSITY RJ 45 CONNECTORS FOR FLAT AND ANGLED PANEL LCS <sup>3</sup> CAT.6 A UTP	0 337 91 FLAT-CONNECTOR PATCH PANEL LCS <sup>3</sup> 19" - 1U TO BE EQUIPPED WITH CASSETTE	0 337 95 HIGH DENSITY CASSETTE FOR FLAT PANELS LCS <sup>3</sup> TO BE EQUIPPED (12 connectors)	0 337 66 Cassette à volets pour protéger les contacts des connecteurs LCS <sup>3</sup> (6 connectors)	0 337 55 CASSETTE FOR FLAT PANELS TO BE EQUIPPED LCS <sup>3</sup> (6 connectors)	0 337 70 FLAT PATCH PANEL EQUIPPED WITH 24 RJ 45 CONNECTORS LCS <sup>3</sup> - 19" - 1U - CAT.6 A UTP
(8 x) 0 337 75		(1 x) 0 337 91	(4 x) 0 337 95			
	(8 x) 0 337 73	(1 x) 0 337 91	(4 x) 0 337 95			
(4 x) 0 337 75		(1 x) 0 337 91		(4 x) 0 337 66		
	(4 x) 0 337 73	(1 x) 0 337 91		(4 x) 0 337 66		
	(4 x) 0 337 73	(1 x) 0 337 91			(4 x) 0 337 55	(1 x) 0 337 70
(4 x) 0 337 75		(1 x) 0 337 91			(4 x) 0 337 55	

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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.

<b>Total weight of Reference Product</b>	<b>100 g</b> (all packaging included)				
Plastics as % of weight		Metals as % of weight		Other as % of weight	
PC	<b>7.4 %</b>	Zamak	<b>30.4 %</b>	Electronic card	<b>0.8 %</b>
ABS	<b>2.6 %</b>	Steel	<b>22.1 %</b>		
PA	<b>1.0 %</b>	Copper alloys	<b>1.9 %</b>		
PP	<b>&lt; 0.1 %</b>	Other metals	<b>0.8 %</b>		
PS	<b>&lt; 0.1 %</b>				
Other plastic	<b>&lt; 0.1 %</b>				
<b>Packaging as % of weight</b>					
PE	<b>0.1 %</b>			Paper	<b>29.5 %</b>
				Wood	<b>3.4 %</b>
<b>Total plastics</b>	<b>11.2 %</b>	<b>Total metals</b>	<b>55.1 %</b>	<b>Total others</b>	<b>33.7 %</b>

Estimated recycled material content: 24 % 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 780 km by Lorry from our warehouse to the local point of distribution into the market in Europe. Packaging is compliant with with European directive 2004/12/EU concerning packaging and packaging waste. 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. 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 responsibility:**

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 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) : 11 %
- metal materials (excluding packaging) : 55 %
- packaging (all types of materials) : 33 %



## 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:

<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: PSR0005-ed2-EN-2016_03_29-Electrical_swichgear_and_control_gear_solutions 21 11 ; §3.8.1.2 «copper telecom accessories».</li> <li>• Use scenario: non-continuous operation for 10 years of working life, during 25% of the time (for building LAN tertiary applications). 4,927 mW of energy losses (determined by standard for 10G Ethernet Cat.6A). This modelling duration does not constitute a minimum durability requirement..</li> <li>• Energy model: Electricity Mix; Europe 27 - 2008.</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	
	Value	Unit	Value	%	Value	%	Value	%	Value	%	Value	%
Global warming	7,32E-01	kgCO <sub>2</sub> eq.	6,68E-01	91 %	3,88E-03	< 1 %	2,01E-03	< 1 %	5,29E-02	7 %	4,96E-03	< 1 %
Ozone depletion	3,59E-08	kgCFC-11 eq.	3,23E-08	90 %	7,86E-12	< 1 %	1,32E-11	< 1 %	3,44E-09	10 %	5,90E-11	< 1 %
Acidification of soils and water	1,35E-03	kgSO <sub>2</sub> eq.	1,08E-03	80 %	1,74E-05	1 %	9,79E-06	< 1 %	2,21E-04	16 %	2,04E-05	2 %
Water eutrophication	6,72E-04	kg(PO <sub>4</sub> ) <sup>3-</sup> eq.	6,14E-04	91 %	4,01E-06	< 1 %	9,91E-06	1 %	1,33E-05	2 %	3,12E-05	5 %
Photochemical ozone formation	1,56E-04	kgC <sub>2</sub> H <sub>4</sub> eq.	1,40E-04	90 %	1,24E-06	< 1 %	6,91E-07	< 1 %	1,21E-05	8 %	1,55E-06	< 1 %
Depletion of abiotic resources - elements	9,47E-05	kgSb eq.	9,47E-05	100 %	1,55E-10	< 1 %	8,71E-11	< 1 %	4,59E-09	< 1 %	2,40E-10	< 1 %
Total use of primary energy	1,12E+01	MJ	9,96E+00	89 %	5,49E-02	< 1 %	2,77E-02	< 1 %	1,06E+00	9 %	5,98E-02	< 1 %
Net use of fresh water	2,14E-01	m <sup>3</sup>	2,26E-02	11 %	3,47E-07	< 1 %	5,98E-07	< 1 %	1,92E-01	89 %	2,16E-06	< 1 %
Depletion of abiotic resources - fossil fuels	6,99E+00	MJ	6,25E+00	89 %	5,45E-02	< 1 %	2,69E-02	< 1 %	6,00E-01	9 %	5,71E-02	< 1 %
Water pollution	7,07E+01	m <sup>3</sup>	6,69E+01	95 %	6,38E-01	< 1 %	3,12E-01	< 1 %	2,18E+00	3 %	6,66E-01	< 1 %
Air pollution	1,72E+02	m <sup>3</sup>	1,69E+02	98 %	1,59E-01	< 1 %	2,40E-01	< 1 %	2,28E+00	1 %	3,69E-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

The effective impact of the product shall be calculated by the PEP user multiplying impacts by the number of product connection points.

The impacts are calculated for one connector RJ45, according to PSR-0005-ed2-FR-2016 03 29. For 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 impacts are calculated for one connector RJ45, according to PSR-0005-ed2-FR-2016 03 29. For 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 : 0 337 75						
0 337 75 : SET OF 6 HIGH DENSITY RJ 45 CONNECTORS FOR FLAT AND ANGLED PANEL LCS <sup>3</sup> - Cat.6A STP with 0 337 91 : FLAT 24 CONNECTOR PATCH PANEL LCS <sup>3</sup> 19P 1U TO BE EQUIPPED WITH CASSETTE and 0 337 95 : HIGH DENSITY CASSETTE FOR FLAT PANELS LCS <sup>3</sup> TO BE EQUIPPED						
Coefficient of extrapolation of environmental indicators						
Associated References	Manufacturing	Distribution	Installation	Use	End of Line	
0 337 73 + 0 337 91 + 0 337 95	1	1	1	1	1	
0 337 66 + 0 337 91 + 0 337 75	coefficient 033766					
	Contribution au réchauffement climatique		1,2			
	Appauvrissement de la couche d'ozone					
	Acidification des sols et de l'eau					
	Eutrophisation de l'eau					
0 337 66 + 0 337 91 + 0 337 73	Formation d'ozone photochimique		1,2			
	Appauvrissement des ressources abiotiques - éléments			1,6	1,8	1,0
	Total d'énergie primaire utilisée		1,5			1,6
	Volume net d'eau douce consommée					
	Appauvrissement des ressources abiotiques - énergies fossiles		1,2			
0 337 55 + 0 337 91 + 0 337 73 ou 0 337 70	coefficient 033755					
	Contribution au réchauffement climatique		1,1			
	Appauvrissement de la couche d'ozone					
	Acidification des sols et de l'eau					
	Eutrophisation de l'eau		1,4			
0 337 55 + 0 337 91 + 0 337 75	Formation d'ozone photochimique		1,1			
	Appauvrissement des ressources abiotiques - éléments			1,6	1,8	1,0
	Total d'énergie primaire utilisée		1,4			1,5
	Volume net d'eau douce consommée					
	Appauvrissement des ressources abiotiques - énergies fossiles		1,1			
	Pollution de l'eau		1,4			
	Pollution de l'air		1,1			

Registration number: LGRP-01202-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: <a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
Date of issue: 06-2020	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010 Internal <input checked="" type="checkbox"/> External <input 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	

