

Product Environmental Profile

SOCKET RJ45 CAT5-CAT6 UTP-FTP PUR NILOE-ETIKA



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	Connect a connection point for 10 years (reference life) with a 25% utilization rate for a copper telecom accessory for a Tertiary LAN application.
Reference Product	
	Cat.No 6 651 77 - 6 650 01
	SOCKET RJ45 CAT5 FTP PUR NILOE .

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 (RJ 45 Socket)	Catalogue Numbers (PLATE NILOE/ETIKA - 1 GANG)
<ul style="list-style-type: none"> • 6 651 77 • 6 645 73 • 6 645 77 • 6 646 73 • 3 965 69 • 3 966 69 • 3 966 72 • 3 965 72 • 3 967 69 • 3 967 72 • 6 722 53 • 6 722 41 • 6 723 41 • 6 723 53 • 6 724 53 • 6 726 53 	<ul style="list-style-type: none"> • 6 650 01 - White • 6 65011- Ivoire • 3 970 41 - Aluminium • 3 970 51 - Noir

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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.

Total weight of Reference Product		90 g (all packaging included)			
Plastics as % of weight		Metals as % of weight		Other as % of weight	
PC	27.3 %	Steel	8.6 %	Electronic card	0.9 %
ABS	20.1 %	Copper alloys	1.0 %		
PA	4.0 %	Other metals	0.1 %		
PBT	1.3 %				
PET	0.5 %				
PS	<0.1 %				
PP	<0.1 %				
Packaging as % of weight					
PE	0.6 %			Wood	17.8 %
				Paper	17.6 %
Total plastics	53.8 %	Total metals	9.8 %	Total others	36.4 %

Estimated recycled material content: 16 % 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 road from our warehouse to the local point of distribution into the market in Europe. Packaging is compliant with applicable regulation. At their end of life, its recyclability rate is 96 % (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 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:

- plastic materials (excluding packaging) : 51 %
- metal materials (excluding packaging) : 10 %
- packaging (all types of materials) : 35 %



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 style="list-style-type: none"> • Product category: Socket RJ45 - PSR-0005-ed2-EN-2016 03 29 - 3.8.1.2. Copper Telecom accessories. • Use scenario: LAN tertiary, non continuous operation for 10 years, cat 6 for 25% of the time . This time modeling is not requirement of minimum durability. • Energy model: Electricity Mix; Europe 27 - 2008.
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	
	Value	Unit	Value	%	Value	%	Value	%	Value	%	Value	%
Global warming	4,35E-01	kgCO ₂ eq.	3,98E-01	92 %	3,49E-03	< 1 %	1,85E-03	< 1 %	2,47E-02	6 %	6,42E-03	1 %
Ozone depletion	1,87E-08	kgCFC-11 eq.	1,69E-08	90 %	7,08E-12	< 1 %	1,00E-11	< 1 %	1,61E-09	9 %	1,53E-10	< 1 %
Acidification of soils and water	9,55E-04	kgSO ₂ eq.	8,03E-04	84 %	1,57E-05	2 %	8,67E-06	< 1 %	1,03E-04	11 %	2,47E-05	3 %
Water eutrophication	1,38E-03	kg(PO ₄) ³⁻ eq.	1,33E-03	97 %	3,61E-06	< 1 %	6,31E-06	< 1 %	6,22E-06	< 1 %	2,94E-05	2 %
Photochemical ozone formation	8,98E-05	kgC ₂ H ₄ eq.	8,05E-05	90 %	1,12E-06	1 %	6,15E-07	< 1 %	5,66E-06	6 %	1,92E-06	2 %
Depletion of abiotic resources - elements	3,20E-05	kgSb eq.	3,20E-05	100 %	1,40E-10	< 1 %	7,90E-11	< 1 %	2,14E-09	< 1 %	4,01E-10	< 1 %
Total use of primary energy	7,93E+00	MJ	7,29E+00	92 %	4,94E-02	< 1 %	2,56E-02	< 1 %	4,93E-01	6 %	7,09E-02	< 1 %
Net use of fresh water	1,42E-01	m ³	5,30E-02	37 %	3,13E-07	< 1 %	4,37E-07	< 1 %	8,95E-02	63 %	5,30E-06	< 1 %
Depletion of abiotic resources - fossil fuels	5,64E+00	MJ	5,22E+00	93 %	4,91E-02	< 1 %	2,50E-02	< 1 %	2,80E-01	5 %	6,39E-02	1 %
Water pollution	1,34E+02	m ³	1,31E+02	98 %	5,75E-01	< 1 %	2,91E-01	< 1 %	1,02E+00	< 1 %	7,42E-01	< 1 %
Air pollution	3,91E+01	m ³	3,70E+01	95 %	1,43E-01	< 1 %	1,65E-01	< 1 %	1,06E+00	3 %	7,26E-01	2 %

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

Extrapolation rules : 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 : 6 651 77 6 651 77 : RJ45 CAT 5 FTP PUR NILOE + 6 650 01 : PLATE NILOE - 1 GANG - WHITE					
Coefficient of extrapolation of environmental indicators					
Associated References	Manufacturing	Distribution	Installation	Use	End of line
6 645 73 + 6 650 01	1	1	1	1	1
6 645 77 + 6 650 01					
6 646 73 + 6 650 11					
3 965 69 + 6 650 01	1.2	1.7	2.7	1	1.1
3 966 69 + 6 650 01					
3 966 72 + 6 650 11					
3 965 72 + 6 650 11					
3 967 69 + 6 650 01					
3 967 72 + 6 650 11					
6 722 53 + 6 650 01	1	1	1.2	1	1
6 722 41 + 6 650 01					
6 723 41 + 6 650 11					
6 723 53 + 6 650 11					
6 724 53 + 3 970 41	ODP 1.5	1.3	1.8	1	1
6 726 53 + 3 970 51	Other indicators 1.2				

Registration number: LGRP-01283-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: 10-2020	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	

