



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.Nos 0 765 65 - 0 788 02L - 0 802 51
	RJ 45 SOCKET MOSAIC - CATEGORY 6 FTP - 2 MOD - WHITE.

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		
• 0 765 64	• 0 765 22	• 0 794 62
• 0 765 54	• 0 765 23	• 0 765 81
• 0 794 54	• 0 765 51	• 0 765 82
• 0 794 55	• 0 765 52	• 0 794 81
• 0 794 64	• 0 765 61	• 0 791 62
• 0 794 65	• 0 765 62	• 0 791 62L
• 0 794 85	• 0 765 55	• 0 765 91
• 0 791 65	• 0 794 51	• 0 765 92
• 0 791 65L	• 0 794 52	• 0 794 92
• 0 765 67	• 0 794 61	



■ 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.

Total weight of Reference Product	116 g (all packaging included)				
Plastics as % of weight		Metals as % of weight		Other as % of weight	
PC	16.9 %	Steel	15.9 %	Electronic card	0.7 %
ABS	7.5 %	Copper alloys	0.8 %		
PA	5.8 %	Other metal	0.1 %		
PET	1.8 %				
PBT	1.0 %				
PP	< 0.1 %				
Packaging as % of weight					
PE (packaging)	0.7 %			Wood (packaging)	32.2 %
PP (packaging)	0.4 %			Paper (packaging)	16.1 %
Total plastics	34.2 %	Total metals	16.8 %	Total others	48.9 %

Estimated recycled material content: 19 % 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 316 by road, 1026 by boat and 995 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 94 % (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.



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.

• **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) : 31 %
- metal materials (excluding packaging) : 17 %
- other materials (excluding packaging) : 0 %
- packaging (all types of materials) : 47 %



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	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 RJ 45 - 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; China - 2009.
End of life	The default end of life scenario maximizing the impacts.
Software and database used	EIME & database CODDE-2018-11



SELECTION OF ENVIRONMENTAL IMPACTS

	Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
Global warming	8.06E-01	kgCO₂ eq.	4.42E-01	55 %	2.45E-01	30 %	3.19E-03	< 1 %	1.10E-01	14 %	5.99E-03	< 1 %
Ozone depletion	4.05E-08	kgCFC-11 eq.	3.91E-08	97 %	3.76E-10	< 1 %	1.58E-11	< 1 %	8.74E-10	2 %	1.29E-10	< 1 %
Acidification of soils and water	1.83E-03	kgSO₂ eq.	8.91E-04	49 %	7.82E-04	43 %	1.47E-05	< 1 %	1.19E-04	7 %	2.33E-05	1 %
Water eutrophication	1.39E-03	kg(PO₄)³⁻ eq.	1.15E-03	83 %	1.67E-04	12 %	8.77E-06	< 1 %	3.14E-05	2 %	2.95E-05	2 %
Photochemical ozone formation	1.66E-04	kgC₂H₄ eq.	9.57E-05	58 %	5.33E-05	32 %	1.05E-06	< 1 %	1.41E-05	8 %	1.81E-06	1 %
Depletion of abiotic resources - elements	2.38E-05	kgSb eq.	2.38E-05	100 %	9.80E-09	< 1 %	1.36E-10	< 1 %	4.82E-10	< 1 %	3.58E-10	< 1 %
Total use of primary energy	1.65E+01	MJ	1.12E+01	67 %	3.47E+00	21 %	4.41E-02	< 1 %	1.80E+00	11 %	6.74E-02	< 1 %
Net use of fresh water	4.06E-02	m³	4.05E-02	100 %	2.29E-05	< 1 %	6.72E-07	< 1 %	1.22E-04	< 1 %	4.49E-06	< 1 %
Depletion of abiotic resources - fossil fuels	1.01E+01	MJ	4.85E+00	48 %	3.45E+00	34 %	4.33E-02	< 1 %	1.66E+00	16 %	6.15E-02	< 1 %
Water pollution	1.67E+02	m³	1.20E+02	72 %	4.04E+01	24 %	5.05E-01	< 1 %	5.46E+00	3 %	7.14E-01	< 1 %
Air pollution	5.94E+01	m³	4.20E+01	71 %	5.10E+00	9 %	2.42E-01	< 1 %	1.14E+01	19 %	6.33E-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.

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:



SELECTION OF ENVIRONMENTAL IMPACTS (CONTINUED)

The Reference Product: 0 765 65					
RJ 45 Cat. 6 FTP Mosaic 2 modules - White					
Coefficient of extrapolation of environmental indicators					
Associated References	Manufacturing	Distribution	Installation	Use	End of life
0 765 64 - 0 765 54 0 765 67 - 0 765 55 0 765 91 - 0 765 92 0 794 85 - 0 791 65 0 765 22 - 0 765 23	1	1	1	1	1
0 794 54 - 0 794 55 0 794 64 - 0 794 65 0 794 92 0 791 65L	1.1	1	1	1	1
0 765 51 - 0 765 52 0 765 61 - 0 765 62 0 765 81 - 0 765 82 0 794 81 - 0 791 62	1	1	1.3	1	1
0 794 51 - 0 794 52 0 794 61 - 0 794 62 0 791 62L	1.1	1	1.3	1	1

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Date of issue: 04-2019	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 : 2014 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	

