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Product Environmental Profile

Power socket outlet LivingLight series





BTICINO'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

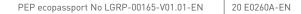
Function The 2 products, installed in a cover plate with a screws equipped support, allow the power supply of equipments with plugs of 19 and 26 mm wheelbase and plugs with german standard, carrying each one a load current not exceeding 16 A. PSR category: passive product. Life span considered for the study: 20 years. Reference Product BT-LN4703 BT-LNA4803Bl 3 modules support - screws equipped 3 modules square cover plate - white Image: support - screws equipped 3 modules square cover plate - white BT-L1410/16 BT-LA180 2P + E 10/16A 250 V a.c. socket - German/Italian standard 2 P + E 10/16A 250 V a.c. socket - Italian standard

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:

BT-LNA4803BI	BT-LN4703	BT-L4140/16	BT-L4180
BT-LNA48030A - BZ - NS - AC - GL - NA - AG - ACS - PK - SQ - RK - AE - CB	BT-LN4703C	BT-N4140/16	BT-N4180
BT-LNA4803VD - OD - AD - KF - KA - KG - AR - TE		BT-NT4140/16	BT-NT4180
BT-LNB48030C - AC - TC - CR - GF - MA - CO - SI - GP - CT - SS		BT-L4140/16R	BT-L4180R
BT-LNB4803TW - TS - TB - SM - CL - TG - AR - BI - TE			
BT-LNC4803BN - TE - AR - PT - PL - OF - NK - NL - PR - GL			
BT-L4803PA - PB - BI			





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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.

150 g (with unit packaging)						
	Metals as % of weight		Other (packaging) as % of weig	ght		
37,5 %	Copper alloys	11,7 %	Paper / cardboard	19,8 %		
12,6 %	Steel	8,7 %	Wood	7,6 %		
0,7 %			Polyethylene	1,4 %		
50,8 %	Total metals 20,4 % Total other (packaging)					
	37,5 % 12,6 % 0,7 %		Metals as % of weight 37,5 % Copper alloys 11,7 % 12,6 % Steel 8,7 % 0,7 %	Metals as % of weight Other (packaging) as % of weight 37,5 % Copper alloys 11,7 % 12,6 % Steel 8,7 % 0,7 % Polyethylene		

Estimated recycled material content: 21 % by mass.

For the power socket outlets with metallic cover plates:

Plastics as % of weight		Metals as % of weight		Other (packaging) as % of weight		
Polycarbonate	26,5 %	Zamak	38,2 %	Paper / cardboard	17,7 %	
Polyamide	0,4 %	Copper alloys	6,5 %	Wood	5,6 %	
		Steel	4,8 %	Polyethylene	0,3 %	
Total plastics	26,9 %	Total metals	49,5 %	Total other (packaging)	23,6 %	

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 european market.

Packaging is compliant with European directive 2004/12/EU concerning packaging and packaging waste. At their end of life, its recyclability rate is 95 % (in % of packaging weight).



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.

• Recyclability rate for the Reference Product:

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) 	: 48 %
 metal materials (excluding packaging) 	: 21 %
- packaging (all types of materials)	: 27 %

• Recyclability rate for the power socket outlets with metallic cover plates:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 98 %. 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) : 26 %
 metal materials (excluding packaging) : 49 %
- packaging (all types of materials) :23 %



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	 Product category: passive product. Use scenario: non-continuous operation for 20 years at 30% of rated load, during 30% of the time. This modelling duration does not constitute a minimum durability requirement. Energy model: Electricity Mix, Europe 27 - 2002.
End of life	The default end of life scenario maximizing the impacts.
Software and database used	EIME V5 and its database «CODDE-2015-04»

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SELECTION OF ENVIRONMENTAL IMPACTS I

	Total for L	_ife cycle	Raw material and manufacture		Distribution		Installation		Use		End of life	
Global warming	1.18E+01	kgCO ₂ eq.	9.93E-01	8%	5.83E-03	< 1%	2.66E-03	< 1%	1.08E+01	91%	1.11E-02	< 1%
Ozone depletion	2.91E-06	kgCFC-11 eq.	2.89E-07	10%	1.18E-11	< 1%	2.02E-11	< 1%	2.62E-06	90%	2.46E-10	< 1%
Acidification of soils and water	8.25E-02	kgSO ₂ eq.	1.03E-03	1%	2.62E-05	< 1%	1.26E-05	< 1%	8.14E-02	99 %	4.31E-05	< 1%
Water eutrophication	3.46E-03	kg(PO₄)³- eq.	3.41E-04	10%	6.02E-06	< 1%	1.14E-05	< 1%	3.05E-03	88%	5.35E-05	2%
Photochemical ozone formation	4.02E-03	kgC ₂ H ₄ eq.	1.67E-04	4%	1.86E-06	< 1%	8.94E-07	< 1%	3.85E-03	96%	3.34E-06	< 1%
Depletion of abiotic resources - elements	5.38E-05	kgSb eq.	5.33E-05	99 %	2.33E-10	< 1%	1.19E-10	< 1%	4.91E-07	< 1%	6.70E-10	< 1%
Total use of primary energy	2.39E+02	MJ	2.07E+01	9 %	8.25E-02	< 1%	3.83E-02	< 1%	2.18E+02	91%	1.67E-01	< 1%
Net use of fresh water	3.66E-02	m ³	8.51E-03	23%	5.22E-07	< 1%	8.49E-07	< 1%	2.81E-02	77%	8.54E-06	< 1%
Depletion of abiotic resources - fossil fuels	1.25E+02	MJ	1.35E+01	11%	8.19E-02	< 1%	3.72E-02	< 1%	1.11E+02	89 %	1.56E-01	< 1%
Water pollution	8.28E+02	m ³	3.74E+02	45%	9.59E-01	< 1%	4.07E-01	< 1%	4.52E+02	55%	1.31E+00	< 1%
Air pollution	6.61E+02	m ³	1.98E+02	30%	2.39E-01	< 1%	2.86E-01	< 1%	4.62E+02	70%	1.19E+00	< 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.

For products covered by the PEP other than the Reference Product: the environmental impacts are calculated for a configuration composed by German/Italian standard Socket, Italian standard Socket, Support and Cover plate. To obtain the environmental impacts for each phase of the lifecycle, multiply those of Reference Product for these coefficients:

Power socket outlet with	То	tal	Manufacturing		Distribution	Installation	Use	End of life	
cover plates:	Air pollution	Other indicators	Air pollution	Other indicators	All indicators	All indicators	All indicators	All indicators	
LL Zamak Square and Round	2,1	1,3	4,7	1,8	1,8	1,4	1,0	1,7	
LL AIR	1,8	1,3	3,8	1,6	1,7	1,9	1,0	1,4	
Living International Polymer	1,	,1	1,1		1,0	1,0	1,0	1,1	

Registration N°: LGRP-00165-V01.01-EN	Drafting rules: PEP-PCR-ed3-EN-2015 04 02 Supplemented by PSR-0005-ed1-2012 12 11				
Verifier accreditation N°: VH02	Information and reference documents : www.pep-ecopassport.org				
Date of issue: 06-2016	Validity period: 5 years				
Independent verification of the declaration and data, in compliance w Internal 🛛 External 🗌					
The PCR review was conducted by a panel of experts chaired by Phili	ippe Osset (SOLINNEN) s from another program				
The elements of the present PEP cannot be compared with elements	s from another program				
Document in compliance with ISO 14025 : 2010: «Environmental label declarations»	Is and declarations. Type III environmental				
Environmental data in alignment with EN 15804 : 2012 + A1 : 2013					