

BTicino SpA Viale Borri, 231 21100 - Varese - Italy

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Product Environmental Profile Power socket outlet

Living Now 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	Establish, support and interrupt for current 16 A, for the operating voltage	20 years rated currents in normal con of 250 V a.c.	ditions of circuit characterized by the		
	BT-KW4140A16	BT-KW03	BT-KW4180		
Reference Product	2P+E 16 A 250 V a.c. power socket - 2 modules, white	Cover for Italian/German P40 standard power socket - 2 modules, white	2P+E 16 A 250 V a.c. power socket - 1 module, white		
		HILLING STREET			
	BT-KW02	BT-K4703	BT-KA4803KW		
	Cover for Italian standard power sockets - 1 module, white	3 modules support equipped with protection valve adn fixing screws	3 modules Living Now cover plate - 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:

BT-KW4140A16	BT-KW03	BT-KW4180	BT-KW02	BT-K4703	BT-KA4803KW
BT-KG4140A16 BT-KM4140A16 BT-KW4140A16F BT-KG4140A16F BT-KM4140A16F	BT-KG03 BT-KM03	BT-KG4180 BT-KM4180	BT-KG02 BT-KM02		BT-KA4803DW - DA - MW - KM - DM - MM BT-KA4803KG - DG - ZW - NW - ZM - ZG BT-KA4803NG



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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.

For all the configurations with plastic cover plates:

Total weight of Reference Product	268 g (all	268 g (all packaging included)							
Plastics as % of weight		Metals as % of weight		Others as % of weight					
Polycarbonate	20,6 %	Copper alloys	8,4 %						
Polyamyde	20,0 %	Steel	4,8 %						
ABS	2,8 %								
Polyketone	2,1 %								
	I	Packagi	ng	1	I				
Polyethylene	1,4 %			Paper / Carboard	27,8 %				
PVC	1,4 %			Wood	10,7 %				
Total plastics	48,3 %	Total metals	13,2 %	Total others	38,5 %				

Estimated recycled material content: 28 % by mass.

For all the configurations with zamak cover plates:

Total weight of Reference Product	330 g (all	packaging included)			
Plastics as % of weight		Metals as % of weight		Others as % of weight	
Polyamide	16,6 %	Zamak	20,6 %		
Polycarbonate	14,3 %	Copper alloys	7,0 %		
Polyketone	1,7 %	Steel	4,0 %		
ABS	1,6 %				
		Packagi	ng	·	, ,
Polyethylene	1,2 %			Paper / Carboard	23,0 %
PVC	1,1 %			Wood	8,9 %
Total plastics	36,5 %	Total metals	31,6 %	Total others	31,9 %

Estimated recycled material content: 22 % 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 92 % (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.

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• 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 92 %. 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) 	:	41 %
 metal materials (excluding packaging) 	:	13 %
- packaging (all types of materials)	:	38 %



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: PSR-0005-ed2-2016 03 29 - § 3.8. Sockets Use scenario: non-continuous operation for 20 years at 50% of rated load, during 50% of the time. This modelling duration does not constitute a minimum durability requirement. Energy model: Electricity Mix, Europe 27 - 2008.
End of life	The default end of life scenario maximizing the impacts.
Software and database used	EIME V5 and its database «CODDE-2018-11»

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SELECTION OF ENVIRONMENTAL IMPACTS I

			Raw material and manufacture		Distribution		Installation		Use		End of life	e
Global warming	2.19E+01	kgCO ₂ eq.	1.25E+00	6%	1.04E-02	< 1%	7.02E-03	< 1%	2.06E+01	94%	1.71E-02	< 1%
Ozone depletion	1.65E-06	kgCFC-11 eq.	3.06E-07	1 9 %	2.11E-11	< 1%	5.79E-11	< 1%	1.34E-06	81%	3.94E-10	< 1%
Acidification of soils and water	8.80E-02	kgSO ₂ eq.	1.97E-03	2%	4.67E-05	< 1%	3.29E-05	< 1%	8.59E-02	98 %	6.63E-05	< 1%
Water eutrophication	8.68E-03	kg(PO ₄) ³⁻ eq.	3.37E-03	39 %	1.07E-05	< 1%	3.01E-05	< 1%	5.19E-03	60%	8.07E-05	< 1%
Photochemical ozone formation	4.94E-03	kgC ₂ H ₄ eq.	2.08E-04	4%	3.32E-06	< 1%	2.35E-06	< 1%	4.72E-03	96 %	5.14E-06	< 1%
Depletion of abiotic resources - elements	4.77E-05	kgSb eq.	4.59E-05	96 %	4.16E-10	< 1%	3.19E-10	< 1%	1.79E-06	4%	1.05E-09	< 1%
Total use of primary energy	4.31E+02	MJ	1.94E+01	4%	1.47E-01	< 1%	9.45E-02	< 1%	4.11E+02	95 %	1.91E-01	< 1%
Net use of fresh water	7.48E+01	m ³	9.88E-02	< 1%	9.31E-07	< 1%	2.38E-06	< 1%	7.47E+01	100%	1.37E-05	< 1%
Depletion of abiotic resources - fossil fuels	2.50E+02	МJ	1.58E+01	6%	1.46E-01	< 1%	9.82E-02	< 1%	2.34E+02	93%	2.42E-01	< 1%
Water pollution	1.22E+03	m ³	3.63E+02	30%	1.71E+00	< 1%	1.06E+00	< 1%	8.50E+02	70%	2.01E+00	< 1%
Air pollution	1.11E+03	m ³	2.24E+02	20%	4.27E-01	< 1%	7.57E-01	< 1%	8.87E+02	80%	1.89E+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.

The environmental impacts are calculated for a configuration composed by Italian/Germand standard power socket with cover, Italian standard power socket with cover, support and cover plate. For products covered by the PEP other than the Reference Product, to obtain the environmental impacts of each phase of the Life cycle:

- for configurations with different finishings and different plastic cover plates, the environmental impacts take the same values of those of the Reference Product;

- for configurations with flat power sockets, the environmental impacts take the same values of those of the Reference Product for all phases, except for the Manufacturing phase where the Ozone depletion indicator has to be multiplied by the coefficient 2,5;

- for configurations with zamak cover plates, multiply the environmental impacts of the Reference Product by the following coefficients:

	Total			Manufacturing			Installation	Use	End of life
Depletion of abiotic resources - elements	Air pollution	Other indicators	Depletion of abiotic resources - elements	Air pollution	Other indicators	All indicators	All indicators	All indicators	All indicators
2,0	1,5	1,0	2,0	3,2	1,3	1,2	1,0	1,0	1,2

Registration N°: LGRP-00886-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: 12-2018	Validity period: 5 years				
Independent verification of the declaration and data, in compliance Internal 🖾 External 🗌					
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					