Llegrand

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Product Environmental Profile

2P+E 16 A mobile extension automatic terminals rubber with straight outlet with cable gland





■ 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.).

Function	Connect the power cable 3G-2,5mm ² maxi of a load consuming 16 A maximum, via automatic terminal cable gland, to connect/disconnect it to a point of the network under a voltage of 230V while protectin user from direct contact with live parts, IP44 IK 08, in the Household/Commercial application areas, account to the appropriate use scenario, and for the reference service life of the product of 20 years.					
Reference Product						
	Cat. No 0 504 41					
	2P+E 16A extension french-belgian standard rubber black automatic terminals cable gland.					

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

• 0 501 11 - 0 504 41 - 0 504 42 - 0 501 12

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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.

0.09 kg (all packaging included)

Total weight of
Reference Product

Product alone weight: 0.07 kg							
Plastics as % of weight		Metals as % of weight		Other as % of weight			
PP	42.2 %	Copper and copper alloys	9.3 %				
SEBS	19.1 %	Steel	1.5 %				
ABS	2.2 %						
PC	2.0 %						
PA	0.4 %						
PE	0.2 %						
Other plastics	<0.1 %						

Packaging (alone): 0.02 kg					
	Cardboard	15.0 %			
	Wood	7.9 %			
	PE	0.2 %			
	Paper	<0.1 %			

Total plastics: 0.06 kg	66.1 %	Total metals: 0.01 kg	10.8 %	Total others: 0.02 kg	23.1 %		
At the data of adition of this degument, the content of regular material(a) is							

At the date of edition of this document, the content of recycled material(s) is:

Product alone (excluding packaging): 27% by mass

Packaging only: 56% 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 1325 km by road from our warehouse to the local point of distribution into the market in Europe. Packaging is compliant with European directive 2004/12/EU concerning packaging and packaging waste.



INSTALLATION

For the installation of the product, only standard tools are needed.

n**n**n

Under normal conditions of use, this product requires no servicing, no maintenance or additional products.

USE

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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 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.



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 A1-A3	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.
	Distribution A4	Transport between the last Group distribution centre and an average delivery point in the sales area.
n Limit	Installation A5	The end of life of the packaging.
System	Use B1-B7	 Product category: 2P+E 16 A mobile extension. 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_Low voltage_2018_Europe_EU-27 - 2018.
	End of life C1-C4	Choice of end-of-life by default model for PCR-ed4-EN-2021 09 06.
D Module		Module D is calculated according to PCR-ed4-EN-2021 09 06 based on the materials recycled and the modelled end-of-life scenario. It expresses the net benefits and loads beyond the boundaries of the system, and are not to be included in the life cycle totals.
Software and data- base used		EIME V6 & its database CODDE-2023-02

Unless otherwise indicated the modelling energetic mix are those integrated in the data modules used from the aformentioned database.

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ENVIRONMENTAL IMPACTS

Product Environmental Profile

2P+E 16 A mobile extension automatic terminals - rubber with straight outlet with cable gland

	Total I	ife Cycle	Manufacturing	Distribution	Installation		Use ^(*)		End of Life	
	iotai E		A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	Module D
Climate change - total	1.34E+00	kg CO ₂ eq.	2.69E-01	6.04E-03	2.82E-02	8.62E-01	0.00E+00	8.62E-01	1.76E-01	-5.67E-02
Climate change - fossil fuels	1.30E+00	kg CO ₂ eq.	2.53E-01	6.04E-03	2.37E-03	8.61E-01	0.00E+00	8.61E-01	1.75E-01	-5.61E-02
Climate change - biogenics	4.36E-02	kg CO ₂ eq.	1.55E-02	0.00E+00	2.58E-02	1.15E-03	0.00E+00	1.15E-03	1.11E-03	-6.51E-04
Climate change - land use and land use transformation	2.79E-06	kg CO ₂ eq.	2.73E-06	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	6.03E-08	0.00E+00
Ozone depletion	7.14E-08	kg CFC-11 eq.	6.52E-08	9.25E-12	2.63E-11	3.68E-09	0.00E+00	3.68E-09	2.49E-09	-2.77E-10
Acidification (AP)	7.27E-03	mole of H+ eq.	2.10E-03	3.82E-05	1.23E-05	4.92E-03	0.00E+00	4.92E-03	2.05E-04	-1.00E-03
Freshwater eutrophication	4.88E-05	kg P eq.	1.29E-05	2.26E-09	6.12E-10	2.36E-06	0.00E+00	2.36E-06	3.35E-05	-3.90E-07
Marine aquatic eutrophication	8.56E-04	kg of N eq.	2.43E-04	1.79E-05	5.44E-06	5.59E-04	0.00E+00	5.59E-04	3.05E-05	-4.44E-05
Terrestrial eutrophication	1.17E-02	mole of N eq.	2.64E-03	1.96E-04	6.52E-05	8.39E-03	0.00E+00	8.39E-03	4.15E-04	-4.87E-04
Photochemical ozone formation	2.90E-03	kg NMVOC eq.	9.48E-04	4.96E-05	1.46E-05	1.79E-03	0.00E+00	1.79E-03	9.76E-05	-1.82E-04
Depletion of abiotic resources - elements	5.24E-04	kg Sb eq.	5.23E-04	2.38E-10	-5.32E-09	6.24E-08	0.00E+00	6.24E-08	8.57E-07	-6.95E-06
Depletion of abiotic resources - fossil fuels	2.86E+01	МЈ	6.08E+00	8.42E-02	2.29E-02	2.20E+01	0.00E+00	2.20E+01	4.96E-01	-1.65E+00
Water requirement	2.30E-01	m ³ deprivation worldwide eq.	1.40E-01	2.29E-05	3.50E-03	3.05E-02	0.00E+00	3.05E-02	5.64E-02	-4.70E-02
Emission of fine particles	5.46E-08	incidence of diseases	1.48E-08	3.11E-10	6.94E-11	3.81E-08	0.00E+00	3.81E-08	1.34E-09	-6.07E-09

(*) For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

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2P+E 16 A mobile extension automatic terminals - rubber with straight outlet with cable gland



Total Life Cycle			Manufacturing A1-A3	Distribution A4	Installation A5	Total B1-B7	Use ^(*) B2	B6	End of Life C1-C4	Module D
Ionizing radiation. human health	4.23E+00	kBq of U235 eq.	2.94E+00	1.47E-05	4.03E-05	1.28E+00	0.00E+00	1.28E+00	5.59E-03	-1.45E+00
Ecotoxicity (fresh water)	1.95E+01	CTUe	7.01E+00	4.06E-03	2.04E-02	9.28E+00	0.00E+00	9.28E+00	3.15E+00	-5.42E-01
Human toxicity. carcinogenic effects	1.15E-07	CTUh	1.14E-07	1.06E-13	1.65E-13	1.00E-10	0.00E+00	1.00E-10	3.68E-11	-1.07E-07
Human toxicity. non-carcinogenic effects	2.80E-08	CTUh	2.12E-08	1.15E-11	1.88E-11	3.99E-09	0.00E+00	3.99E-09	2.76E-09	-1.19E-08
Impacts related to land use/soil quality	2.61E-01	-	7.72E-02	0.00E+00	0.00E+00	1.71E-02	0.00E+00	1.71E-02	1.67E-01	1.47E-07
Use of renewable primary energy. excluding renewable primary energy resources used as raw materials	4.44E+00	MJ	1.94E-01	1.12E-04	-7.96E-04	4.22E+00	0.00E+00	4.22E+00	3.06E-02	-3.78E-02
Use of renewable primary energy resources used as raw materials	2.47E-01	MJ	2.47E-01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.13E-04
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	4.69E+00	MJ	4.42E-01	1.12E-04	-7.96E-04	4.22E+00	0.00E+00	4.22E+00	3.06E-02	-3.76E-02
Use of non-renewable primary energy. excluding non-renewable primary energy resources used as raw materials	2.65E+01	MJ	3.99E+00	8.42E-02	2.29E-02	2.20E+01	0.00E+00	2.20E+01	4.96E-01	-1.17E+00
Use of non-renewable primary energy resources used as raw materials	2.10E+00	МЈ	2.10E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	-4.85E-01
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	2.86E+01	MJ	6.08E+00	8.42E-02	2.29E-02	2.20E+01	0.00E+00	2.20E+01	4.96E-01	-1.65E+00

(*) For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column

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	Manufacturing Distribution Installation				Use ^(*)	End of Life				
	A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	Module D		
Use of secondary materials	3.18E-02	kg	3.18E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of renewable secondary fuels	0.00E+00	МЈ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Use of non-renewable secondary fuels	0.00E+00	Ш	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water	5.39E-03	m ³	3.28E-03	5.33E-07	8.16E-05	7.10E-04	0.00E+00	7.10E-04	1.31E-03	-1.10E-03
Hazardous waste disposed of	8.33E-01	kg	7.50E-01	0.00E+00	-3.52E-05	1.61E-02	0.00E+00	1.61E-02	6.69E-02	-6.36E-01
Non-hazardous waste disposed of	4.24E-01	kg	2.30E-01	2.12E-04	2.30E-02	1.24E-01	0.00E+00	1.24E-01	4.70E-02	-5.83E-03
Radioactive waste disposed of	1.84E-04	kg	1.48E-04	1.51E-07	4.21E-07	2.60E-05	0.00E+00	2.60E-05	9.77E-06	-2.98E-06
Components for re-use	0.00E+00	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Materials for recycling	2.12E-02	kg	3.38E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	1.78E-02	0.00E+00
Materials for energy recovery	0.00E+00	MJ by energy vector	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Exported energy	0.00E+00	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total use of primary energy during the life cycle	3.33E+01	МЈ	6.52E+00	8.43E-02	2.21E-02	2.62E+01	0.00E+00	2.62E+01	5.27E-01	-1.69E+00
Biogenic carbon content of the product	0.00E+00	kg of C	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic carbon content of the associated packaging	6.72E-03	kg of C	6.72E-03	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

(*) For the Use phase and according to the current PCR, the information modules B1, B3, B4, B5 and B7, all having indicator values equal to «0» (zero), are not listed in this table.

In accordance with current PCR rules, the environmental indicator values in the «Module D» column must not be summed with the values in the «Total Life Cycle» column.

The values of the indicators defined in the PCR-ed4-EN-2021 09 06 are available in the digital database of pep-ecopassport.org website.

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ENVIRONMENTAL IMPACTS

The environmental impact of the product, described in this document and different of the Reference Product, can be estimated by weighting the environmental impacts of the Reference Product by the corresponding factors.

		Coef to apply per phase of the life cycle					
References	Designation		Manufacturing [A1-A9]	Distribution [A4]	Installation [A5]	Use [B1-B7]	End Of Life [C1-C4]
LG-050441	2P+E 16A EXTENSION FRENCH-BELGIAN STANDARD RUBBER BLACK AUTOMATIC TERMINALS CABLE GLAND	1.0	1.0	1.0	1.0	1.0	1.0
LG-050111	2P+E 16A EXTENSION FRENCH-BELGIAN STANDARD RUBBER BLACK AUTOMATIC TERMINALS CABLE GLAND	1.1	1.2	1.2	1.9	1.0	1.0
LG-050442	2P+E 16A EXTENSION FRENCH-BELGIAN STANDARD RUBBER BLACK AUTOMATIC TERMINALS CABLE GLAND	1.4	1.7	1.7	3.6	1.0	1.3
LG-050112	2P+E 16A EXTENSION FRENCH-BELGIAN STANDARD RUBBER BLACK AUTOMATIC TERMINALS CABLE GLAND	1.2	1.4	1.4	1.7	1.0	1.3

Registration number: LGRP-01667-V02.01-EN	Drafting rules: «PEP-PCR-ed4-EN-2021 09 06»			
Verifier accreditation N°: VH02	Information and reference documents: www.pep-ecopassport.org			
Date of issue: 11-2023	Validity period : 5 years			
Independent verification of the declaration and data, in complian	ce with ISO 14025: 2006			
Internal 🛛 External 🗌				
The PCR review was conducted by a panel of experts chaired by Jul	ie ORGELET (DDemain)			
PEP are compliant with XP C08-100-1: 2016 or EN 50693: 2019 The elements of the present PEP cannot be compared with elements from another program				
Document in compliance with ISO 14025: 2006: «Environmental labels and declarations. Type III environmental declarations»				

Environmental data in alignment with EN 15804: 2012 + A2: 2019