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Product Environmental Profile

Industrial flexible conduits FTR cables guide





■ 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	Accommodate and protect the wiring along 1 meter for a reference life time of 20 years. The surface-mounted flexible conduit system, with 180 mm² cross-section, includes the profile and accessories that are representative of standard use.
Reference Product	
	LG-387192
	Industrial flexible conduit - FTR overbraided cables guide - internal diameter: 16mm - 1 meter length

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:

LG-387192

LG-387190 - LG-387191 - LG-387193 - LG-387194 - LG-387195 - LG-387196 - LG-387197



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■ CONSTITUENT MATERIALS I

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	400 g (all packaging included)

Plastics as % of weight		Metals as % of weight		Other (packaging) as % of weight		
PVC	12,4 %	Steel	83,5 %	Wood	2,5 %	
				Polyethylene	1,6 %	
				Paper / cardboard	< 0,1 %	
Total plastics	12,4	Total metals	83,5 %	Total other (packaging)	4,1 %	

Estimated recycled material content: 30 % 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 58 % (in % of packaging weight).



INSTALLATION INSTALLATION

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



USE STATE

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



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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:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 97 %. 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)
metal materials (excluding packaging)
exactle 183 %
packaging (all types of materials)
2 %



■ 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.
 Product category: PSR-0003-ed1.1-2015 10 16 - § 3.2.1.2 Distribution trunking systems and conduit systems. Use scenario: no energy consumption during the 20 years working life. This modelling duration does not consminimum durabilty 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 I	_ife cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	•
Global warming	1.46E+00	kgCO ₂ eq.	1.41E+00	97%	1.55E-02	1%	1.25E-03	< 1%	0.00E+00	0%	2.73E-02	2%
Ozone depletion	4.55E-08	kgCFC-11 eq.	4.52E-08	99%	3.15E-11	< 1%	2.02E-11	< 1%	0.00E+00	0%	2.88E-10	< 1%
Acidification of soils and water	3.68E-03	kgSO ₂ eq.	3.49E-03	95%	6.98E-05	2%	5.09E-06	< 1%	0.00E+00	0%	1.13E-04	3%
Water eutrophication	5.59E-04	kg(PO ₄)³- eq.	3.62E-04	65%	1.60E-05	3%	3.77E-06	< 1%	0.00E+00	0%	1.77E-04	32%
Photochemical ozone formation	5.07E-04	kgC ₂ H ₄ eq.	4.93E-04	97%	4.96E-06	< 1%	3.82E-07	< 1%	0.00E+00	0%	8.54E-06	2%
Depletion of abiotic resources - elements	1.25E-05	kgSb eq.	1.25E-05	100%	6.22E-10	< 1%	6.82E-11	< 1%	0.00E+00	0%	1.28E-09	< 1%
Total use of primary energy	8.59E+01	МЛ	8.54E+01	99%	2.08E-01	< 1%	1.46E-02	< 1%	0.00E+00	0%	3.18E-01	< 1%
Net use of fresh water	2.23E-02	m³	2.23E-02	100%	1.39E-06	< 1%	7.05E-07	< 1%	0.00E+00	0%	1.07E-05	< 1%
Depletion of abiotic resources - fossil fuels	1.73E+01	МЛ	1.67E+01	97%	2.18E-01	1%	1.77E-02	< 1%	0.00E+00	0%	3.65E-01	2%
Water pollution	9.36E+01	m³	8.72E+01	93%	2.55E+00	3%	1.67E-01	< 1%	0.00E+00	0%	3.72E+00	4%
Air pollution	2.04E+02	m³	2.02E+02	99%	6.37E-01	< 1%	1.09E-01	< 1%	0.00E+00	0%	1.91E+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 of the FTR cables guides series with different diameters are obtained, for each life cycle phase, by multiplying the impacts of the Reference Product by these coefficients:

FTR Cables guide codes	Coefficient
LG-387190	0,61
LG-387191	0,74
LG-387192	1,00

FTR Cables guide codes	Coefficient
LG-387193	1,35
LG-387194	1,73
LG-387195	2,27

Coefficient
2,64
3,47

Registration N°: LGRP-00712-V01.01-EN	Drafting rules: PEP-PCR-ed3-EN-2015 04 02 Supplemented by PSR-0003-ed1.1-2015 10 16
Verifier accreditation N°: VH02	Information and reference documents : www.pep-ecopassport.org
Date of issue: 04-2018	Validity period: 5 years
Independent verification of the declaration and data, in considering Laternal \square External \square	npliance with ISO 14025:2010
The PCR review was conducted by a panel of experts chair	ed by Philippe Osset (SOLINNEN)
PEP are compliant with XP C08-100-1 : 2014 The elements of the present PEP cannot be compared with	n elements from another program
Document in compliance with ISO 14025 : 2010: «Environm declarations»	
Environmental data in alignment with EN 15804 : 2012 + A	1 : 2013