La legrand

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Your usual Sales office www.legrand.com

Product Environmental Profile

Optical cable OM3 multimode serrated LCS³ for interior or exterior 6 fibers





LEGRAND'S ENVIRONMENTAL COMMITMENTS I

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).

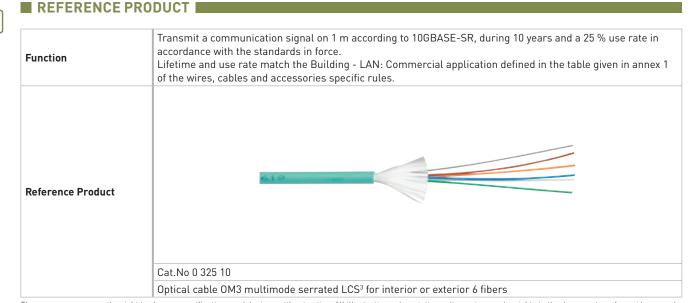
• Offer our customers environmentally friendly solutions

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.).



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

• 0 325 11

• 0 325 52

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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.

Total weight of Reference Product	58 g (all p	ackaging included)				
Plastics as % of weight		Metals as % of weight		Other as % of weight		
PP	56.5 %			Glass	19.0 %	
PET	0.5 %			Ceramic	0.4 %	
		Packaging as % of	fweight			
PP (packaging)	9.9 %	Steel (packaging)	0.5 %	Wood (packaging)	13.0 %	
PE (packaging)	0.1 %			Paper (packaging)	0.1 %	
Total plastics	67.0 %	Total metals	0.5 %	Total others	32.5 %	

Estimated recycled material content: 0 % by mass.



MANUFACTURE

This Reference Product comes from sites that have received ISO14001 certification.



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 5044 km by plane, 680 km by road and 5364 km by boat from our warehouse to the local point of distribution into the market all around the world.

Packaging is compliant with applicable regulation. At their end of life, its recyclability rate is 55 % (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:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 86 %. 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:

linto.	
- plastic materials (excluding packaging)	: 54 %
 metal materials (excluding packaging) 	:0%
 other materials (excluding packaging) 	: 19 %
- packaging (all types of materials)	: 13 %



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 the whole world.

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: § 4 «Communication and data wires and cables» / § 4.2.2.3 «optical fiber cables». Use scenario: non-continuous operation for 10 years of working life, during 25 % of the time (for LAN tertiary applications) of PSR0001 0.00456 mW/m of energy losses. This modelling duration does not constitute a minimum durability requirement. As no EIME module exists for Worldwide Electricity mix, China Module is used. Energy model: Electricity Mix; China - 2009.
End of life	The in force PCR default end of life scenario maximizing the environmental impacts.
Software and database used	EIME & database CODDE-2018-11

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SELECTION OF ENVIRONMENTAL IMPACTS

	Total for L	_ife cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	è
Global warming	7.88E-01	kgCO ₂ eq.	1.28E-01	16 %	6.15E-01	78 %	1.10E-03	< 1 %	1.02E-04	< 1 %	4.44E-02	6 %
Ozone depletion	2.01E-08	kgCFC-11 eq.	1.74E-08	87 %	9.43E-10	5 %	1.88E-11	< 1 %	8.08E-13	< 1 %	1.75E-09	9 %
Acidification of soils and water	2.26E-03	kgSO ₂ eq.	2.60E-04	11 %	1.96E-03	87 %	4.44E-06	< 1 %	1.10E-07	< 1 %	3.66E-05	2 %
Water eutrophication	5.33E-04	kg(PO ₄) ³⁻ eq.	7.79E-05	15 %	4.19E-04	79 %	3.58E-06	< 1 %	2.91E-08	< 1 %	3.19E-05	6 %
Photochemical ozone formation	1.60E-04	kgC ₂ H ₄ eq.	2.24E-05	14 %	1.34E-04	83 %	3.35E-07	< 1 %	1.30E-08	< 1 %	3.72E-06	2 %
Depletion of abiotic resources - elements	3.26E-08	kgSb eq.	6.83E-09	21 %	2.46E-08	75 %	6.10E-11	< 1 %	4.46E-13	< 1 %	1.10E-09	3 %
Total use of primary energy	1.07E+01	MJ	1.77E+00	17 %	8.69E+00	81 %	1.32E-02	< 1 %	1.66E-03	< 1 %	2.21E-01	2 %
Net use of fresh water	4.05E-03	m ³	3.95E-03	98 %	5.74E-05	1 %	6.56E-07	< 1 %	1.13E-07	< 1 %	4.24E-05	1 %
Depletion of abiotic resources - fossil fuels	9.75E+00	MJ	9.58E-01	10 %	8.65E+00	89 %	1.23E-02	< 1 %	1.53E-03	< 1 %	1.29E-01	1 %
Water pollution	1.71E+02	m ³	2.12E+01	12 %	1.01E+02	59 %	1.44E-01	< 1 %	5.05E-03	< 1 %	4.83E+01	28 %
Air pollution	3.28E+01	m ³	1.84E+01	56 %	1.28E+01	39 %	9.98E-02	< 1 %	1.05E-02	< 1 %	1.54E+00	5 %

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 each phase of the lifecycle are asimilated to the impacts of the Reference Product.

The reference product: 0 325 10							
Optical cable OM3 multimode serrated LCS ³ for interior or exterior 6 fibers							
Coefficient of extrapolation of environmental indicators							
Associated References Manufacturing Distribution Installation Use End of Line							
0 325 11 (12 fibers)	1.2	1.1	1	2	1.2		
0 325 52 (24 fibers)	1.5	1.5	1	4	1.6		

Registration N°: LGRP-00839-V01.01-EN	Drafting rules: «PEP-PCR-ed3-EN-2015 04 02» Supplemented by «PSR-0001-ed3-2015 10 16»					
Verifier accreditation N°: VH02	Information and reference documents: w	Information and reference documents: www.pep-ecopassport.org				
Date of issue: 04-2019	Validity period: 5 years	Validity period: 5 years				
Independent verification of the declaration and data, in complia	nce with ISO 14025 : 2010					
The PCR review was conducted by a panel of experts chaired by						
PEP are compliant with XP C08-100-1 : 2014 The elements of the present PEP cannot be compared with elem						
Document in compliance with ISO 14025 : 2010: «Environmental Type III environmental declarations»						
Environmental data in alignment with EN 15804: 2012 + A1 : 201	13					