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# **Product Environmental Profile**

### Cable LCS3 S/FTP Category 7





#### ■ 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	To transmit one communication signal on 1m according to at a frequency of 600MHz protocol, category 7, during 10 years and a 25% use rate in accordance with the standards in force ISO/IEC 14763-2: 2019 and EN 50174-2: 2018  Lifetime and use rate correspond to the application Building - LAN: Commercial as defined in the table given in Appendix 6.1. of the specific rules for wire, cables and accessories.
Reference Product	Cat.032777
	Cable C7 S FTP 4P LSZH 500m

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

• LG-032777C - LG-032777B - LG-032779 - LG-032849 - LG-032882 - LG-033890





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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 amended by delegated directive (EU) 2015/863, and its amendment 2017/2102/EU.

Total weight of	
Reference Product	<b>0.06 kg</b> (all packaging included)

Product alone weight 0.05 kg											
Plastics as % of weight		Metals as % of weight		Other as % of weight							
PP	37.1%	Copper and copper alloys	34.8%								
PE	7.5%	Al	6.2%								
PET	3.1%										
PA	<0.1%										

Packaging (alone) : 0.01 kg										
PE (Packaging)	<0.1%	steel(packaging)	0.9%	0.9% wood(packaging)						
				Cardboard (Packaging)	2.1%					
				Paper (Packaging)	<0.1%					

Total plastics : 0.03 kg 47.8 % Total metals : 0.02 kg	41.9 % Total others : 0.01 kg	10.3 %
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At the date of edition of this document, the content of recycled material(s) is:

- Product alone (excluding packaging): 0% by mass
- Packaging only: 0% 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 2338.9 km by planes and 1388.1 km by trucks and 591.8 by boats from our warehouse to the local point of distribution into the market all around the world.

Packaging is compliant with applicable regulation.



### INSTALLATION

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



### USE W

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



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### ■ END OF LIFE I

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.



### **■ 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 worlwide marketed products.

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.
Ħ	Distribution A4	Transport between the last Group distribution centre and an average delivery point in the sales area.
em Limit	Installation A5	The end of life of the packaging.
System	Use B1-B7	<ul> <li>Product category: Communication and data wires and cables.</li> <li>Use scenario: non-continuous operation for 10 years of working life, during 25% of the time (for building LAN tertiary.</li> <li>Energy model: Electricity Mix_Low voltage_2018_China_CN - 2018.</li> </ul>
	End of life C1-C4	Choice of end-of-life by default model for PCR-ed4-EN-2021 09 06.
D Mo	odule	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 burdens beyond the boundaries of the system, and are not to be included in the life cycle totals.
	vare and data- used	The indicators set used is « Indicators for PEF EF 3.0 (compliance: PEP ed.4, EN15804+A2) v2.0 » 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**

			Manufacturing	Distribution	Installation		Use <sup>(1)</sup>		End of Life
Total Life Cycle			A1-A3	A4	A5	Total B1-B7	C1-C4		
Climate change - total	5.32E+00	kg CO <sub>2</sub> eq.	4.91E+00	3.02E-01	0*	2.60E-02	0*	2.60E-02	7.89E-02
Climate change - fossil fuels	4.93E+00	kg CO <sub>2</sub> eq.	4.53E+00	3.02E-01	0*	2.60E-02	0*	2.60E-02	7.63E-02
Climate change - biogenics	3.91E-01	kg CO <sub>2</sub> eq.	3.88E-01	0*	0*	0*	0*	0*	2.62E-03
Climate change - land use and land use transformation	8.20E-08	kg CO <sub>2</sub> eq.	1.37E-08	0*	0*	0*	0*	0*	6.83E-08
Ozone depletion	1.78E-07	kg CFC-11 eq.	1.75E-07	3.52E-10	2.53E-11	1.48E-10	0*	1.48E-10	2.32E-09
Acidification (AP)	2.74E-02	mole of H+ eq.	2.56E-02	1.28E-03	3.08E-06	1.95E-04	0*	1.95E-04	3.05E-04
Freshwater eutrophication	1.01E-04	kg P eq.	1.85E-05	1.07E-07	0*	0*	0*	0*	8.22E-05
Marine aquatic eutrophication	3.59E-03	kg of N eq.	2.96E-03	5.73E-04	1.92E-06	2.08E-05	0*	2.08E-05	3.07E-05
Terrestrial eutrophication	3.93E-02	mole of N eq.	3.23E-02	6.28E-03	1.99E-05	2.36E-04	0*	2.36E-04	4.46E-04
Photochemical ozone formation	1.12E-02	kg NMVOC eq.	9.51E-03	1.54E-03	4.50E-06	6.95E-05	0*	6.95E-05	9.84E-05
Depletion of abiotic resources - elements	3.65E-05	kg Sb eq.	3.44E-05	1.19E-08	0*	0*	0*	0*	2.08E-06
Depletion of abiotic resources - fossil fuels	8.32E+01	MJ	7.83E+01	4.22E+00	0*	4.20E-01	0*	4.20E-01	2.77E-01
Water requirement	1.70E+00	m³ deprivation worldwide eq.	1.61E+00	1.20E-03	7.07E-04	1.15E-03	0*	1.15E-03	8.24E-02
Emission of fine particles	2.63E-07	incidence of diseases	2.52E-07	7.99E-09	0*	1.06E-09	0*	1.06E-09	1.67E-09

<sup>\*</sup> represents less than 0.01% of the total life cycle of the reference flow

Module D

-7.71E-02 -7.41E-02 -3.07E-03 0.00E+00 -1.35E-08 -2.44E-03 -3.77E-07 -6.59E-05 -7.46E-04 -3.53E-04 -1.68E-05 -1.51E+00 -1.07E-01 -1.51E-08

<sup>(</sup>¹) 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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	Total Life Cycle		Manufacturing	Distribution	Installation		Use <sup>(1)</sup>	End of Life	
	iotai i	Liio Oyolo	A1-A3	A4	A5	Total B1-B7	B2	В6	C1-C4
Ionizing radiation, human health	8.86E+00	kBq of U235 eq.	8.85E+00	0*	0*	3.09E-03	0*	3.09E-03	6.40E-03
Ecotoxicity (fresh water)	4.11E+01	CTUe	3.32E+01	1.97E-01	3.74E-02	4.90E-01	0*	4.90E-01	7.17E+00
Human toxicity, carcinogenic effects	4.73E-07	CTUh	4.73E-07	0*	4.98E-11	0*	0*	0*	8.27E-11
Human toxicity, non-carcinogenic effects	8.80E-08	CTUh	8.13E-08	2.44E-10	1.54E-11	1.89E-10	0*	1.89E-10	6.30E-09
Impacts related to land use/soil quality	1.58E+00	-	1.30E+00	0*	0*	0*	0*	0*	2.83E-01
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	1.10E+01	МЈ	1.09E+01	4.76E-03	0*	4.45E-02	0*	4.45E-02	6.36E-02
Use of renewable primary energy resources used as raw materials	1.67E-01	MJ	1.67E-01	0*	0*	0*	0*	0*	0*
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1.12E+01	МЈ	1.10E+01	4.76E-03	0*	4.45E-02	0*	4.45E-02	6.36E-02
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	8.19E+01	мј	7.70E+01	4.22E+00	0*	4.20E-01	0*	4.20E-01	2.77E-01
Use of non-renewable primary energy resources used as raw materials	1.29E+00	MJ	1.29E+00	0*	0*	0*	0*	0*	0*
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	8.32E+01	МЈ	7.83E+01	4.22E+00	0*	4.20E-01	0*	4.20E-01	2.77E-01

**Module D** -3.58E+00 -3.82E+00 -2.43E-07 -2.90E-08 0.00E+00 -8.35E-02 0.00E+00 -8.35E-02 -1.32E+00 -1.93E-01 -1.51E+00

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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<sup>\*</sup> represents less than 0.01% of the total life cycle of the reference flow

<sup>(1)</sup> 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



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	Total I	ife Cycle	Manufacturing	Distribution	Installation		End of Life		
			A1-A3	A4	A5	Total B1-B7	B2	В6	C1-C4
Use of secondary materials	0.00E+00	kg	0*	0*	0*	0*	0*	0*	0*
Use of renewable secondary fuels	0.00E+00	МЈ	0*	0*	0*	0*	0*	0*	0*
Use of non-renewable secondary fuels	0.00E+00	МЈ	0*	0*	0*	0*	0*	0*	0*
Net use of fresh water	3.95E-02	m³	3.75E-02	2.79E-05	1.65E-05	2.67E-05	0*	2.67E-05	1.92E-03
Hazardous waste disposed of	3.14E+00	kg	3.10E+00	0*	0*	7.90E-04	0*	7.90E-04	4.44E-02
Non-hazardous waste disposed of	1.58E+01	kg	1.58E+01	8.97E-03	4.34E-03	4.53E-03	0*	4.53E-03	0*
Radioactive waste disposed of	1.05E-02	kg	1.05E-02	5.73E-06	0*	0*	0*	0*	6.16E-06
Components for re-use	0.00E+00	kg	0*	0*	0*	0*	0*	0*	0*
Materials for recycling	2.36E-02	kg	3.94E-03	0*	0*	0*	0*	0*	1.97E-02
Materials for energy recovery	0.00E+00	MJ by energy vector	0*	0*	0*	0*	0*	0*	0*
Exported energy	0.00E+00	MJ	0*	0*	0*	0*	0*	0*	0*
Total use of primary energy during the life cycle	9.44E+01	МЈ	8.93E+01	4.23E+00	0*	4.65E-01	0*	4.65E-01	3.41E-01

Module D
0.00E+00
0.00E+00
0.00E+00
-2.49E-03
-1.55E+00
-6.73E-02
-5.45E-05
0.00E+00
0.00E+00
0.00E+00
0.00E+00
-1.60E+00

Biogenic carbon content of the product	0.00E+00	kg of C	0*	0*	0*	0*	0*	0*	0*
Biogenic carbon content of the associated packaging	2.31E-03	kg of C	2.31E-03	0*	0*	0*	0*	0*	0*

0.00E+00

For biogenic carbon storage, the methodology use is 0/0

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.

For all products concerned (see § «products concerned»), take these impacts values.

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<sup>\*</sup> represents less than 0.01% of the total life cycle of the reference flow

<sup>(1)</sup> 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



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References	Designation		coef to apply per phase of the life cycle							
		total Life Cycle	Manufacturing [A1-A3]	Distribution [A4]	Installation [A5]	Use [B1-B7]	End of life [C1-C4]			
LG-032777C	Cable category 7 S/FTP 4 paires LSZH Dca 500 metres	1.0	1.0	1.0	1.0	1.0	1.0			
LG-032779	Cable category 7 S/FTP 2 x 4 pairs LSZH 500 meters	1.0	1.0	1.0	1.0	1.0	1.0			
LG-032849	Cable category 7 S/FTP 4 pairs LSZH Cca 500 metres	2.9	2.9	2.9	3.0	2.0	2.0			
LG-032882	Cable category 7 S/FTP 4 pairs LSZH B2ca 500 meters	1.0	1.0	1.0	1.0	1.0	1.0			
LG-033890	Cable category 7 S/FTP indoor/outdoor 500m	1.0	1.0	1.0	1.0	1.0	1.0			
LG-032777B	Cable category 7 S/FTP 4 pairs LSZH 500 meters	1.0	1.0	1.0	1.0	1.0	0.9			

Registration number: LGRP-00553-V02.01-EN	Drafting rules: PEP-PCR-ed4-2021 09 06 Supplemented by PSR-0001-ed4-2022 11 16
Verifier accreditation N°: VH02	Information and reference documents: www.pep-ecopassport.org
Date of issue: <b>09-2023</b>	Validity period: 5 years
Independent verification of the declaration and data, in co	mpliance with ISO 14025 : 2006
Internal ⊠ External □	PEF
The PCR review was conducted by a panel of experts chaired by	
PEP are compliant with XP C08-100-1 :2016 or EN 50693 :2019 The elements of the present PEP cannot be compared with elem	PAS
Document in compliance with ISO 14025 : 2006: «Environmental Type III environmental declarations»	

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