

Product Environmental Profile

Cable LCS3 S/FTP U/UTP Category 6



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

<p>Function</p>	<p>To transmit one communication signal on 1m according to Ethernet 1G - BP = 250 Mhz protocol, Cat 6 category, 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.</p>
<p>Reference Product</p>	<div style="text-align: center;">  </div> <p>Cat.No 032756 LAN Cable - CAT6 F UTP - 4 Pairs - L 500 m - LSZH</p>

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:

<p>Catalogue Numbers</p> <p>• LG-032756 - LG-032871B - LG-032872 - LG-032871 - LG-032757 - LG-032758 - LG-032759 - LG-032770 - LG-032776 - LG-032820 - LG-032820T - LG-032821 - LG-032821T - LG-032822 - LG-032822T - LG-032823 - LG-032829 - LG-032843 - LG-032861 - LG-032861B - LG-032861T - LG-032867 - LG-032879 - LG-033853 - LG-032754 - LG-032754C - LG-032754D - LG-032755 - LG-032755A - LG-032755B - LG-032755G - LG-032755O - LG-032755W - LG-032856 - LG-032857 - LG-032866 - LG-032886 - LG-033852</p>

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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.

Total weight of Reference Product	0.06 kg (all packaging included)
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Product alone weight 0.05 kg					
Plastics as % of weight		Metals as % of weight		Other as % of weight	
		Copper and copper alloys	34.5 %		
PP	28.4 %	Al	3.8 %		
PE	18.5 %				
Other plastics	3.0 %				
PE (Packaging)	0.1 %				
Others (Packaging)	<0,1 %				

Packaging (alone) : 0.01 kg					
		steel(packaging)	0.9 %	wood(packaging)	8.5 %
				Cardboard (Packaging)	2.2 %
				Paper (Packaging)	<0,1 %

Total plastics : 0.03 kg	50.0 %	Total metals : 0.02 kg	39.2 %	Total others : 0.01 kg	10.8 %
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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 a site 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 4596.7 km by plane and 795.5 km by trucks and 982.1 km 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

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.

Extended producer responsibility:

In France, the sale of products covered by the field of application of the European Directive on Waste Electronic and Electrical Equipment (WEEE) is subject to a contribution to a certified eco-organisation.



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 worldwide marketed products.

For each phase, the following modelling elements were taken in account:

System Limit	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.
	Installation A5	The end of life of the packaging.
	Use B1-B7	<ul style="list-style-type: none"> Product category: Communication and data wires and cables. Use scenario: non-continuous operation for 10 years of working life, during 25% of the time (for building LAN tertiary applications) 1.13 mW/m of energy losses (determined by standard for 1G Ethernet Cat6). This modelling duration does not constitute a minimum durability requirement. Energy model: Electricity Mix_Low voltage_2018_China_CN - 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 burdens 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. The indicators set used is « Indicators for PEF EF 3.0 (compliance: PEF ed.4, EN15804+A2) v2.0	

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

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ENVIRONMENTAL IMPACTS

	Total Life Cycle		Manufacturing	Distribution	Installation	Use ⁽¹⁾			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Climate change - total	5.62E+00	kg CO ₂ eq.	4.98E+00	5.63E-01	2.12E-03	2.16E-02	0*	2.16E-02	6.21E-02	-5.90E-02
Climate change - fossil fuels	5.22E+00	kg CO ₂ eq.	4.58E+00	5.63E-01	7.83E-04	2.16E-02	0*	2.16E-02	5.96E-02	-5.63E-02
Climate change - biogenics	3.99E-01	kg CO ₂ eq.	3.95E-01	0*	1.34E-03	0*	0*	0*	2.48E-03	-2.64E-03
Climate change - land use and land use transformation	5.34E-07	kg CO ₂ eq.	4.74E-07	0*	0*	0*	0*	0*	5.95E-08	0.00E+00
Ozone depletion	1.79E-07	kg CFC-11 eq.	1.76E-07	6.53E-10	0*	1.23E-10	0*	1.23E-10	2.11E-09	-1.10E-08
Acidification (AP)	2.82E-02	mole of H ⁺ eq.	2.54E-02	2.37E-03	4.83E-06	1.62E-04	0*	1.62E-04	2.87E-04	-2.22E-03
Freshwater eutrophication	9.58E-05	kg P eq.	1.76E-05	1.98E-07	0*	0*	0*	0*	7.80E-05	-2.62E-07
Marine aquatic eutrophication	4.10E-03	kg of N eq.	2.99E-03	1.06E-03	2.28E-06	1.73E-05	0*	1.73E-05	2.87E-05	-5.23E-05
Terrestrial eutrophication	4.48E-02	mole of N eq.	3.26E-02	1.16E-02	2.43E-05	1.96E-04	0*	1.96E-04	4.16E-04	-5.96E-04
Photochemical ozone formation	1.26E-02	kg NMVOC eq.	9.57E-03	2.84E-03	5.84E-06	5.78E-05	0*	5.78E-05	9.21E-05	-3.00E-04
Depletion of abiotic resources - elements	3.35E-05	kg Sb eq.	3.15E-05	2.22E-08	0*	0*	0*	0*	2.00E-06	-1.60E-05
Depletion of abiotic resources - fossil fuels	8.77E+01	MJ	7.93E+01	7.85E+00	0*	3.49E-01	0*	3.49E-01	2.59E-01	-1.14E+00
Water requirement	1.69E+00	m ³ deprivation worldwide eq.	1.62E+00	2.23E-03	7.26E-04	9.53E-04	0*	9.53E-04	7.55E-02	-9.90E-02
Emission of fine particles	2.70E-07	incidence of diseases	2.52E-07	1.47E-08	0*	8.82E-10	0*	8.82E-10	1.56E-09	-1.35E-08

* represents less than 0.01% of the total life cycle of the reference flow

(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 ⁽¹⁾			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Ionizing radiation, human health	8,25E+00	kBq of U235 eq.	8.24E+00	1.04E-03	0*	2.57E-03	0*	2.57E-03	5.79E-03	-3.39E+00
Ecotoxicity (fresh water)	3,89E+01	CTUe	3.13E+01	3.66E-01	3.48E-02	4.07E-01	0*	4.07E-01	6.78E+00	-2.57E+00
Human toxicity, carcinogenic effects	4,33E-07	CTUh	4.33E-07	0*	4.36E-11	0*	0*	0*	7.83E-11	-2.29E-07
Human toxicity, non-carcinogenic effects	8,31E-08	CTUh	7.65E-08	4.48E-10	1.56E-11	1.57E-10	0*	1.57E-10	5.98E-09	-2.74E-08
Impacts related to land use/soil quality	1,58E+00	-	1.32E+00	0*	0*	0*	0*	0*	2.60E-01	0.00E+00
Use of renewable primary energy, excluding renewable primary energy resources used as raw materials	1,11E+01	MJ	1.10E+01	8.83E-03	0*	3.69E-02	0*	3.69E-02	6.01E-02	-6.89E-02
Use of renewable primary energy resources used as raw materials	1,65E-01	MJ	1.65E-01	0*	0*	0*	0*	0*	0*	0.00E+00
Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)	1,13E+01	MJ	1.12E+01	8.83E-03	0*	3.69E-02	0*	3.69E-02	6.01E-02	-6.89E-02
Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials	8,64E+01	MJ	7.79E+01	7.85E+00	0*	3.49E-01	0*	3.49E-01	2.59E-01	-1.00E+00
Use of non-renewable primary energy resources used as raw materials	1,34E+00	MJ	1.34E+00	0*	0*	0*	0*	0*	0*	-1.41E-01
Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)	8,77E+01	MJ	7.93E+01	7.85E+00	0*	3.49E-01	0*	3.49E-01	2.59E-01	-1.14E+00

* represents less than 0.01% of the total life cycle of the reference flow

(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

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

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	Total Life Cycle		Manufacturing	Distribution	Installation	Use ⁽¹⁾			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Use of secondary materials	9.38E-04	kg	9.38E-04	0*	0*	0*	0*	0*	0*	0.00E+00
Use of renewable secondary fuels	0.00E+00	MJ	0*	0*	0*	0*	0*	0*	0*	0.00E+00
Use of non-renewable secondary fuels	0.00E+00	MJ	0*	0*	0*	0*	0*	0*	0*	0.00E+00
Net use of fresh water	3.95E-02	m ³	3.76E-02	5.20E-05	1.69E-05	2.22E-05	0*	2.22E-05	1.76E-03	-2.31E-03
Hazardous waste disposed of	2.87E+00	kg	2.83E+00	0*	0*	6.56E-04	0*	6.56E-04	4.26E-02	-1.47E+00
Non-hazardous waste disposed of	1.61E+01	kg	1.60E+01	1.67E-02	6.98E-03	3.76E-03	0*	3.76E-03	0*	-4.01E-02
Radioactive waste disposed of	1.06E-02	kg	1.06E-02	1.06E-05	0*	0*	0*	0*	5.42E-06	-3.26E-05
Components for re-use	0.00E+00	kg	0*	0*	0*	0*	0*	0*	0*	0.00E+00
Materials for recycling	2.01E-02	kg	3.35E-03	0*	0*	0*	0*	0*	1.68E-02	0.00E+00
Materials for energy recovery	0.00E+00	MJ by energy vector	0*	0*	0*	0*	0*	0*	0*	0.00E+00
Exported energy	0.00E+00	MJ	0*	0*	0*	0*	0*	0*	0*	0.00E+00
Total use of primary energy during the life cycle	9.91E+01	MJ	9.05E+01	7.86E+00	0*	3.86E-01	0*	3.86E-01	3.19E-01	-1.21E+00

Biogenic carbon content of the product	0.00E+00	kg of C	0*	0*	0*	0*	0*	0*	0*	0.00E+00
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

* represents less than 0.01% of the total life cycle of the reference flow

(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

The values of the impacts defined in the PCR-ed4-EN-2021 09 06 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 calculated with :

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Associated references		Coefficient of extrapolation of environmental indicators					
		Total life Cycle	Manufacturing	Distribution	Installation	Use	End of life
LG-032756	Cable category 6 F/UTP 4 pairs LSZH 500 meters	1.0	1.0	1.0	1.0	1.0	1.0
LG-032871B	Cable category 6 U/UTP 4 pairs LSZH 1000 meters	2.8	2.8	2.8	3.0	2.0	0.8
LG-032872	Cable category 6 U/UTP 4 pairs PVC 1000 meters	2.8	2.8	2.8	3.0	2.0	0.8
LG-032871	Cable category 6 U/UTP 4 pairs LSZH 1000 meters	2.8	2.8	2.8	3.0	2.0	0.8
LG-032757	Cable category 6 SF/UTP 4 pairs LSZH 500 meters	1.5	1.5	1.5	1.5	1.0	1.4
LG-032758	Cable category 6 F/UTP 4 pairs PVC 500 meters	1.0	1.0	1.0	1.0	1.0	1.1
LG-032759	Cable category 6 SF/UTP 4 pairs PVC 500 meters	1.5	1.5	1.5	1.5	1.0	1.4
LG-032770	Cable category 6 F/UTP 4 pairs LSZH 500 meters	1.0	1.0	1.0	1.0	1.0	1.1
LG-032776	Cable category 6 F/UTP 2x4 pairs LSZH 500 meters	2.9	2.9	2.9	3.0	1.0	1.7
LG-032820	Cable category 6 U/UTP 4 pairs LSZH 500 meters red	1.0	1.0	1.0	1.0	1.0	0.8
LG-032820T	Cable category 6 U/UTP 4 pairs LSZH red 500 meters	1.0	1.0	1.0	1.0	1.0	0.8
LG-032821	Cable category 6 U/UTP 4 pairs LSZH 500 meters yellow	1.0	1.0	1.0	1.0	1.0	0.8
LG-032821T	Cable category 6 U/UTP 4 pairs LSZH yellow 500 meters	1.0	1.0	1.0	1.0	1.0	0.8
LG-032822	Cable category 6 U/UTP 4 pairs LSZH 500 meters green	1.0	1.0	1.0	1.0	1.0	0.8
LG-032822T	Cable category 6 U/UTP 4 pairs LSZH green 500 meters	1.0	1.0	1.0	1.0	1.0	0.8
LG-032823	Cable category 6 U/UTP 4 pairs LSZH 500 meters grey	1.0	1.0	1.0	1.0	1.0	0.8
LG-032829	Cable category 6 U/UTP 4 pairs outdoor 500 meters black	1.5	1.5	1.5	1.5	1.0	1.1
LG-032843	Cable category 6 F/UTP 2 x 4 paires LSZH Dca 500 metres	4.3	4.3	4.3	4.5	1.0	1.9
LG-032861	Cable category 6 U/UTP 4 pairs LSZH 500 meters	1.0	1.0	1.0	1.0	1.0	0.8
LG-032861B	Cable category 6 U/UTP 4 pairs LSZH 500 meters	1.0	1.0	1.0	1.0	1.0	0.8
LG-032861T	Cable category 6 U/UTP 4 pairs LSZH blue 500 meters	1.0	1.0	1.0	1.0	1.0	0.8
LG-032867	Cable category 6 F/UTP 4 pairs LSZH advanced fire resistant 500 meters	1.5	1.5	1.5	1.5	1.0	1.3
LG-032879	Cable category 6 U/UTP 4 paires LSZH B2ca 500 metres	1.0	1.0	1.0	1.0	1.0	0.9
LG-033853	Cable category 6 F/UTP 4 pairs LSZH 500 meters	1.0	1.0	1.0	1.0	1.0	0.9
LG-032754	Cable category 6 U/UTP 4 pairs LSZH 305 meters	0.9	0.9	0.9	0.9	0.6	0.9
LG-032754C	Cable category 6 U/UTP 4 pairs LSZH 305 meters	0.9	0.9	0.9	0.9	0.6	0.9
LG-032754D	Cable category 6 U/UTP 4 pairs LSZH 305 meters	0.9	0.9	0.9	0.9	0.6	0.9
LG-032755	Cable category 6 U/UTP 4 pairs PVC 305 meters	1.2	1.2	1.2	1.3	0.6	0.8
LG-032755A	Cable category 6 U/UTP 4 pairs PVC 305 meters	1.2	1.2	1.2	1.3	0.6	0.8
LG-032755B	Cable category 6 U/UTP 4 pairs PVC blue 305 meters	1.2	1.2	1.2	1.3	0.6	0.8
LG-032755G	Cable category 6 U/UTP 4 pairs PVC green 305 meters	1.2	1.2	1.2	1.3	0.6	0.8
LG-032755O	Cable category 6 U/UTP 4 pairs PVC orange 305 meters	1.2	1.2	1.2	1.3	0.6	0.8
LG-032755W	Cable category 6 U/UTP 4 pairs PVC white 305 meters	1.2	1.2	1.2	1.3	0.6	0.8
LG-032856	Cable category 6 F/UTP 4 pairs LSZH 305 meters	1.0	1.0	1.0	1.0	0.6	1.0
LG-032857	Cable category 6 F/UTP 4 pairs PVC 305 meters	1.0	1.0	1.0	1.0	0.6	1.1
LG-032866	Cable category 6 U/UTP 4 pairs LSZH advanced fire resistant 305 meters	0.7	0.7	0.7	0.7	0.6	0.9
LG-032886	Cable category 6 U/UTP 4 pairs LSZH Cca 305 metres	0.9	0.9	0.9	0.9	0.6	0.9
LG-033852	Cable category 6 U/UTP 4 pairs LSZH 305 meters	0.4	0.4	0.4	0.4	0.6	0.8

Registration number: LGRP-00549-V03.01-EN	Drafting rules: « PEP-PCR-ed4-EN-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: 09/2023	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2006	
Internal <input checked="" type="checkbox"/> External <input type="checkbox"/>	
The PCR review was conducted by a panel of experts chaired by Julie 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