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Your usual Sales office
www.legrand.com

Product Environmental Profile

LAN Cable - CAT6A F/UTP - 4 Pairs - L 500 m - LSZH

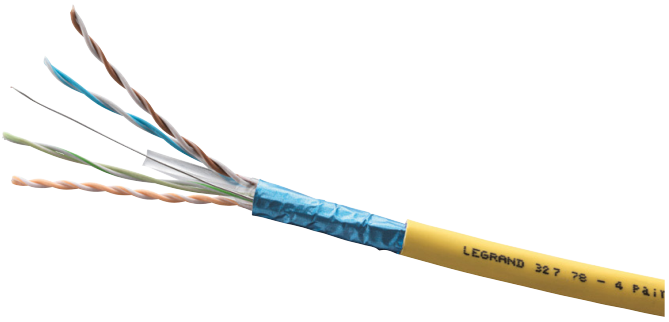
LEGRAND'S ENVIRONMENTAL COMMITMENTS

• 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	«Transmit a communication signal on 1 m according to Ethernet 10G - BP = 500 Mhz protocol, Cat. 6a category, during 10 years and a 25% use rate in accordance with the standards in force. Lifetime and use rate match the Building - LAN : Commercial application defined in the table given in annex 1 of the wires, cables and accessories specific rules.».
Reference Product	
	Cat.No 032778
	LAN Cable - CAT6A F/UTP - 4 Pairs - L 500 m - LSZH.

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
• 032778 ; LG-032778 ; 032778-500m ; 032778BLK ; 032778G

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PEP ecopassport®

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	**57 g** (all packaging included)

Plastics as % of weight		**Metals as % of weight**		**Other as % of weight**	
PP	**24.7%**	Copper alloys	**35.6%**		
PE	**19.1%**	Al	**4.0%**		
Other Plastics	**3.1%**				
Packaging as % of weight					
PE	**0.1%**	Steel	**0.9%**	Wood	**10.2%**
				Paper	**2.3%**
Total plastics	**47.0%**	**Total metals**	**40.5%**	**Total others**	**12.5%**

Estimated recycled material content: 7% 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 1406 km by road and 9 km by sea from our warehouse to the local point of distribution into the market all around the world..

Packaging is compliant with with applicable regulation concerning packaging and packaging waste. At their end of life, its recyclability rate is 95% % (in % of packaging weight).

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.

• Recyclability rate:
Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 95%. 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) : 42%
- metal materials (excluding packaging) : 40%
- other materials (excluding packaging) : 0%
- 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 worlwide marketed products..

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

Unless otherwise specified, the energy models are those integrated in the modules used from the EIME database	
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: PSR-0001-ed3-EN-2015 10 16 _ 4 Communication and data wires and cables : Twisted pairs cables • Use scenario: non-continuous operation for 10 years of working life, during 25% of the time (for building LAN tertiary applications), 1,364 mW of energy losses (determined by standard for 10G Ethernet Cat6a). This modelling duration does not constitute a minimum durabilty requirement. No EIME module avalaible for world mix electricity , so China Electricity module used.. • Energy model: Electricity Mix; China - 2009.
End of life	According to PSR-0001-ed3-FR-2015 10 16 _ paragraphe 4.2.3, • Transportation, assuming a local transport • A stage of grinding / separation of metals and plastics, • Recycling of 100% of metals, linked to the economic value of these materials, • Landfilling of other materials».
Software and database used	EIME & database CODDE-2018-11

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SELECTION OF ENVIRONMENTAL IMPACTS

	Total for Life cycle		Raw material and manufacture		Distribution		Installation		Use		End of life	
Global warming	**2.50E-01**	**kgCO_2 eq.**	1.66E-01	**67%**	3.96E-03	**2%**	4.11E-04	**< 1%**	3.04E-02	**12%**	4.89E-02	**20%**
Ozone depletion	**3.11E-08**	**kgCFC-11 eq.**	2.90E-08	**93%**	8.03E-12	**< 1%**	1.59E-12	**< 1%**	2.42E-10	**< 1%**	1.87E-09	**6%**
Acidification of soils and water	**5.69E-04**	**kgSO_2 eq.**	4.74E-04	**83%**	1.80E-05	**3%**	1.86E-06	**< 1%**	3.29E-05	**6%**	4.19E-05	**7%**
Water eutrophication	**1.31E-04**	**kg$(PO_4)^{3-}$ eq.**	9.08E-05	**69%**	4.11E-06	**3%**	1.01E-06	**< 1%**	8.69E-06	**7%**	2.62E-05	**20%**
Photochemical ozone formation	**5.07E-05**	**kgC_2H_4 eq.**	4.13E-05	**81%**	1.27E-06	**3%**	1.33E-07	**< 1%**	3.89E-06	**8%**	4.15E-06	**8%**
Depletion of abiotic resources - elements	**3.01E-05**	**kgSb eq.**	3.01E-05	**100%**	1.59E-10	**< 1%**	1.70E-11	**< 1%**	1.33E-10	**< 1%**	1.15E-09	**< 1%**
Total use of primary energy	**3.43E+00**	**MJ**	2.62E+00	**76%**	5.60E-02	**2%**	5.69E-03	**< 1%**	4.97E-01	**14%**	2.52E-01	**7%**
Net use of fresh water	**5.02E-02**	**m^3**	5.01E-02	**100%**	3.55E-07	**< 1%**	6.80E-08	**< 1%**	3.39E-05	**< 1%**	4.47E-05	**< 1%**
Depletion of abiotic resources - fossil fuels	**1.96E+00**	**MJ**	1.28E+00	**66%**	5.57E-02	**3%**	5.61E-03	**< 1%**	4.59E-01	**23%**	1.53E-01	**8%**
Water pollution	**7.76E+01**	**m^3**	2.19E+01	**28%**	6.52E-01	**< 1%**	6.56E-02	**< 1%**	1.51E+00	**2%**	5.34E+01	**69%**
Air pollution	**1.29E+02**	**m^3**	1.25E+02	**96%**	1.63E-01	**< 1%**	2.50E-02	**< 1%**	3.15E+00	**2%**	1.49E+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 each phase of the lifecycle are asimilated to the impacts of the Reference Product.

Registration number: LGRP-00548-V02.01-EN	Drafting rules: PEP-PCR-ed3-EN-2015 04 02 Supplemented by PSR-0001-ed3-2015 10 16
Verifier accreditation N°: VH18	Information and reference documents: **www.pep-ecopassport.org**
Date of issue: 04-2022	Validity period: 5 years
Independent verification of the declaration and data, in compliance with ISO 14025 : 2010 Internal ☐ External ☒	
The PCR review was conducted by a panel of experts chaired by Philippe Osset (SOLINNEN)	
PEP are compliant with XP C08-100-1 : 2016 The elements of the present PEP cannot be compared with elements from another program	
Document in compliance with ISO 14025 : 2010: «Environmental labels and declarations. Type III environmental declarations»	

Environmental data in alignment with EN 15804: 2012 + A1 : 2013