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# **Product Environmental Profile**

Twisted pair conductors cable for video system applications





## ■ BTICINO'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 a communication signal on 1 m according to the SCS protocol, during 30 years and at 70% use rate in accordance with the IEC 20-13 and IEC 20-14 standards. Lifetime and use rate match the «Residential/tertiary/industrial» application defined in the table given in annex 1 of the wires, cables and accessories specific rules.					
Reference Product	Septime Septime					
	BT-336904					
	Twisted pair conductors cable for 2 wires video system applications					

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:

BT-336904





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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 and its delegated directive 2015/863/EU.

Total weight of Reference Product	<b>27 g</b> (all p	packaging included)				
Plastics as % of weight		Metals as % of weight		Other as % of weight		
PVC	54,4 %	Copper alloys	30,0 %			
Polyethylene	12,0 %					
		Packagi	ng		·	
Polyethylene (LDPE)	1,0 %			Wood	2,6 %	
				Paper / cardboard	< 0,1 %	
Total plastics	67,4 %	Total metals	30,0 %	Total other	2,6 %	

Estimated recycled material content: 8 % by mass.



# MANUFACTURE

This Reference Product comes from sites that observe the applicable legislation for industrial sites.



## ■ DISTRIBUTION ■

The Group's products are distributed from logistics centres located to optimize transport efficiency. The Reference Product is therefore transported over an average distance of 780 km, essentially by road, representing a marketing in Europe.

Packaging is compliant with European directive 2004/12/EC concerning packaging and packaging waste. At the packaging end of life, its recycling rate is of 69 % (as % of packaging weight).



# INSTALLATION INSTALLATION

 $The installation components \ not \ delivered \ with \ the \ product \ are \ not \ taken \ into \ account.$ 



#### USE

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. 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 responsability:

The sale of this product is subject to a contribution to eco-organisations in each country responsible for managing end-of-life products in the field of application of the European Waste Electronic and Electrical Equipment Directive.

#### • Recyclability rate of the Reference Product:

Calculated using the method described in technical report IEC/TR 62635, the recyclability rate of the product is estimated at 96 %. 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.

plastic materials (excluding packaging)
metal materials (excluding packaging)
packaging (all types of materials)
: 3 %



## ■ 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.

The Functional Unit description and the life cycle analysis are compliant to the specific rules applicable to «Wires, cables and accessories PSR-0001-ed3-EN-2015 10 16 - Communication and data wires and cables», available on the site www.pep ecopassport.org, while the power loss calculation in the Use phase is compliant to the real product features and application specifications.

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. The installation components not delivered with the product are not taken into account.
Use	<ul> <li>Product category: based on Residential/Tertiary/Industrial cables - Twisted pair cables.</li> <li>Use scenario: thirty-year working life. Off mode power: no energy consumption for 30 % of the time; active mode power: 0,1 W under for 70 % of the time. This modelling duration does not constitute a minimum durability requirement.</li> <li>Energy model: Electricity Mix, Europe 27 - 2008.</li> </ul>
End of life	In view of the data available on the date of creation of the document, and in accordance with the requirements of the PCR of the « PEP ecopassport » programme and the PSR-0001-ed3-EN 2015 10 16, were counted these End of life phases: - transport of the Reference Product by road only once, over a distance of 1000 km, to a processing site; - a stage of grinding / separation of metal and plastics; - recycling of 100% of metals and landfilling of other materials.
Software and database used	EIME V5 and its database «CODDE-2018-11»



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# ■ SELECTION OF ENVIRONMENTAL IMPACTS I

	Total for I	Life cycle	Raw material a manufact		Distributi	on	Installatio	on	Use		End of life	•
Global warming	1.00E+01	kgCO <sub>2</sub> eq.	7.57E-02	< 1%	1.06E-03	< 1%	6.79E-05	< 1%	9.91E+00	99%	2.64E-02	< 1%
Ozone depletion	6.69E-07	kgCFC-11 eq.	2.19E-08	3%	2.15E-12	< 1%	8.94E-13	< 1%	6.46E-07	97%	1.46E-09	< 1%
Acidification of soils and water	4.15E-02	kgSO <sub>2</sub> eq.	1.58E-04	< 1%	4.76E-06	< 1%	2.83E-07	< 1%	4.14E-02	100%	2.15E-05	< 1%
Water eutrophication	2.62E-03	kg(P0 <sub>4</sub> )³- eq.	1.06E-04	4%	1.09E-06	< 1%	1.77E-07	< 1%	2.50E-03	95%	1.55E-05	< 1%
Photochemical ozone formation	2.29E-03	kgC <sub>2</sub> H <sub>4</sub> eq.	1.94E-05	< 1%	3.38E-07	< 1%	2.10E-08	< 1%	2.27E-03	99%	2.09E-06	< 1%
Depletion of abiotic resources - elements	1.31E-05	kgSb eq.	1.22E-05	93%	4.24E-11	< 1%	3.50E-12	< 1%	8.61E-07	<b>7</b> %	6.07E-10	< 1%
Total use of primary energy	1.99E+02	МЛ	1.03E+00	< 1%	1.50E-02	< 1%	8.56E-04	< 1%	1.98E+02	99%	1.34E-01	< 1%
Net use of fresh water	3.60E+01	m³	1.29E-02	< 1%	9.48E-08	< 1%	3.15E-08	< 1%	3.59E+01	100%	2.51E-05	< 1%
Depletion of abiotic resources - fossil fuels	1.13E+02	МЛ	4.76E-01	< 1%	1.49E-02	< 1%	8.15E-04	< 1%	1.13E+02	99%	8.07E-02	< 1%
Water pollution	4.55E+02	m³	1.65E+01	4%	1.74E-01	< 1%	9.51E-03	< 1%	4.09E+02	90%	2.87E+01	6%
Air pollution	4.78E+02	m³	5.03E+01	11%	4.34E-02	< 1%	5.29E-03	< 1%	4.27E+02	89%	8.37E-01	< 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.

Concerning the wide range of possible installation of these products, the installation procedure is excluded from the PEP perimeter. The impact determination of the installation will be performed by the PEP users according to the product use context. The packaging end of life is however considered in accordance with the requirements of the PCR-ed3-EN-2015 04 02.

Registration N°: LGRP-00938-V01.01-EN	Drafting rules: PEP-PCR-ed3-EN-2015 04 02 Supplemented by PSR-0001-ed3-EN-2015 10 16				
Verifier accreditation N°: VH02	Information and reference documents : www.pep-ecopassport.org				
Date of issue: 04-2019	Validity period: 5 years				
Independent verification of the declaration and data, in compliant Internal $\square$ External $\square$	e with ISO 14025:2010				
The PCR review was conducted by a panel of experts chaired by P	hilippe Osset (SOLINNEN)				
PEP are compliant with XP C08-100-1 : 2014 The elements of the present PEP cannot be compared with eleme	nts from another program    CO   PASS				
Document in compliance with ISO 14025 : 2010: «Environmental la declarations»	bels and declarations. Type III environmental PORT®				
Environmental data in alignment with EN 15804 : 2012 + A1 : 2013					