Legrand North and Central America
Data Communications Division
125 Eugene O'Neill Drive
New London, CT 06320
1.877.BY.LEGRAND (295.3472)
www.legrand.us

Product Environmental Profile

Ortronics® Splice Tray with Protector Sleeves

COMPANY OVERVIEW

• Sustainability built in to support our associates, customers, and the environment
At Legrand North and Central America, we're committed to leading by example within our own operations, to developing high quality solutions for our customers' High Performance Buildings, and to transforming how people live and work – more safely, more comfortably, more efficiently.

• Better Performance
A core principle of designing for sustainability drives us to innovate products and systems that enable buildings to reach exceptional levels of performance, bringing about industry-leading ideas, inventions and initiatives.

• Better Operations
A commitment to a leadership role in operational excellence through environmental management, optimizing the way we manage energy, water and waste.

• Better Lives
A dedication to enhancing employee and community welfare through programs that help people enjoy healthier, more productive and more rewarding lives.

For more information on Legrand's PEPs and other sustainability initiatives, visit legrand.us/sustainability.

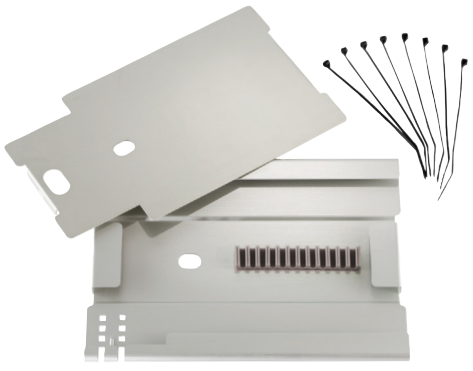
LEGRAND'S ENVIRONMENTAL COMMITMENTS

• Incorporate environmental management into our industrial sites
Of all Legrand sites worldwide, over 85% are ISO 14001 certified (sites belonging to Legrand 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
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	Provides support and routes 12 fiber optic cables for mounting in a cabinet and provides protection when splicing fibers. This product has a functional lifetime of 20 years.	
Reference Product	 Representative image shown.	
	Part Number: OR-62600003	Part Number: OR-20500043
	7" Fusion Splice Tray for 12 fibers and 40 mm long, 3 mm diameter Heat Shrink Sleeves	

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PEP ecopassport®

PRODUCTS CONCERNED

The environmental data is representative of the following products:

Splice Trays with Protector Sleeves for Fiber Splicing
OR-62600003 and OR-20500043
OR-FST2-F012 and OR-20500043
OR-FST3-F048 and OR-20500337

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/CE.

Total weight of Reference Product (with unit packaging)	**110 g**

Plastics as % of weight		**Metals as % of weight**		**Others as % of weight**	
Product					
PC	**24.1%**	Aluminum	**52.4%**	Paper	**<0.1%**
Polyolefin	**3.8%**	Steel	**1.1%**		
Silicone	**3.2%**				
Neoprene Rubber	**2.6%**				
PA-66	**1.8%**				
Packaging					
PE (low density)	**0.6%**			Paper	**10.4%**
Total plastics	**36.1%**	**Total metals**	**53.5%**	**Total others**	**10.4%**

Estimated recycled material content: 7% of weight.

The proportions of PC and Aluminum vary for the following products due to the use of a base and cover of the splice trays made of PC (as opposed to an Aluminum base as is accounted for with the Reference Product). Percentages for these are shown in the table below. The weight of the trays vary so the proportion of other materials not shown vary proportionally to the values in the table above for the materials in the Reference Product.

Part Number	**% PC**	**% Aluminum**	**% recycled material content**
OR-FST2-F012 and OR-20500043	77	0	3
OR-FST3-F048 and OR-20500337	77	0	

MANUFACTURING

The Reference Product comes from a site that observes the applicable legislation for industrial sites.

DISTRIBUTION

Products are distributed from logistics centers located to optimize transport efficiency using EPA SmartWay® certified carriers to reduce greenhouse gases emissions. Information on the distance of distribution is not available so the PCR hypothesis for "Intracontinental transport", 2175 miles (3500 km) by heavy truck, was used. This represents transportation of the Reference Product from our warehouse to the local point of distribution in the North American market.

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INSTALLATION

A heat gun with soldering reflector nozzle is used to melt the protector sleeves to the fiber optic cables prior to splicing.

USE

Servicing and maintenance:
Under normal conditions of use, this type of product requires no servicing or maintenance.

Consumable:
No consumables are necessary to use this type of product.

END OF LIFE

• **Hazardous waste* contained in the product:** no hazardous waste
(*) Hazardous waste as defined by European Commission decision 2000/532/EC.

• **Recycling rate:**
Calculated using the method described in the IEC/TR 62635 technical report, the recyclability rate of the Reference Product without packagin is estimated as 88%. This value is based on data collected from a technological channel using industrial procedures. It does not pre-validate the effective use of this channel for end-of-life electrical and electronic products.

Separated into:	(% mass of Reference Product without packaging)
- plastic materials:	28%
- metal materials:	60%
- other materials:	<1%
Recycling rate of packaging (all types of materials):	5%

The differences in materials for the products other than the Reference Product does not significantly affect the recyclability rate of these products since the recyclability of PC is similar to that of Aluminum. Thus, 88% shall represent the recyclability rate of these products.

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 of products marketed and used in North America.

The following modelling elements were taken into account:

Manufacturing	Unit packaging taken into account. As required by the PEP ecopassport program, all transport for the manufacturing of the Reference Product, including materials and components, has been taken into account. The waste generated during manufacturing phase has been taken into account.
Distribution	Transport between the last distribution center and an average delivery to the sales area. The default scenario modelled maximizes the environmental impact.
Installation	Heat gun temperature is 300°C using Steinel - HL 1910 E (1500 W) for 4 minutes to apply sleeves to 12 fiber cables. The end-of-life of the packaging (12.0 g) is taken into account at this phase. Transport of packaging to end of life treatment.
Use	• Under normal conditions of use, this type of product requires no servicing or maintenance. • No consumables are necessary to use this type of product. • Use scenario: no energy consumption during the 20 year working life. This modelling duration does not constitute a minimum durability requirement. • Energy model: N/A
End of life	The default end of life scenario modelled maximizes the environmental impact using the PCR hypothesis for "Local transport": 621 miles (1000 km) by heavy truck and landfilling.
Software used	EIME V5 and its database "CODDE-2015-04" and the indicators defined in the PCR ed 3 in alignment with the EN15804 standard

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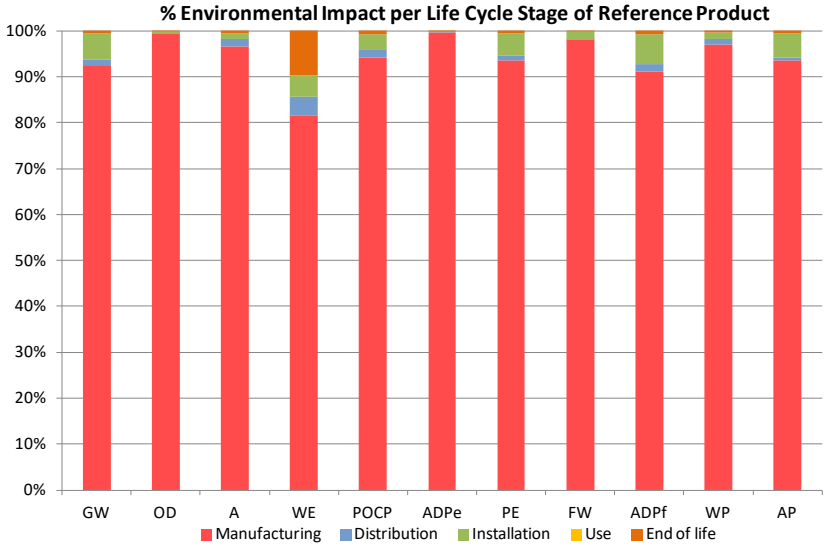
ENVIRONMENTAL IMPACTS (continued)

	Total for Life cycle		Raw material and manufacturing		Distribution		Installation		Use		End of life	
Global warming (GW)	**1.30E+00**	**kg CO_2 eq.**	1.20E+00	**92%**	1.91E-02	**1%**	7.06E-02	**5%**	0.00E+00	**0%**	8.46E-03	**< 1%**
Ozone depletion (OD)	**2.39E-07**	**kg CFC-11 eq.**	2.37E-07	**99%**	3.87E-11	**< 1%**	1.29E-09	**< 1%**	0.00E+00	**0%**	1.44E-10	**< 1%**
Acidification of soil and water (A)	**5.74E-03**	**kg SO_2 eq.**	5.55E-03	**97%**	8.59E-05	**1%**	7.17E-05	**1%**	0.00E+00	**0%**	3.38E-05	**< 1%**
Water eutrophication (WE)	**5.11E-04**	**kg PO_4^{3-} eq.**	4.20E-04	**82%**	1.97E-05	**4%**	2.38E-05	**5%**	0.00E+00	**0%**	4.71E-05	**9%**
Photochemical ozone creation (POCP)	**3.47E-04**	**kg C_2H_4 eq.**	3.27E-04	**94%**	6.10E-06	**2%**	1.10E-05	**3%**	0.00E+00	**0%**	2.59E-06	**< 1%**
Depletion of abiotic resources - elements (ADPe)	**2.03E-06**	**kg Sb eq.**	2.03E-06	**100%**	7.65E-10	**< 1%**	7.70E-10	**< 1%**	0.00E+00	**0%**	4.60E-10	**< 1%**
Total use of primary energy (PE)	**2.48E+01**	**MJ**	2.32E+01	**94%**	2.70E-01	**1%**	1.21E+00	**5%**	0.00E+00	**0%**	1.23E-01	**< 1%**
Net use of fresh water (FW)	**6.54E-03**	**m^3**	6.41E-03	**98%**	1.71E-06	**< 1%**	1.24E-04	**2%**	0.00E+00	**0%**	5.09E-06	**< 1%**
Depletion of abiotic resources – fossil fuels (ADPf)	**1.73E+01**	**MJ**	1.58E+01	**91%**	2.69E-01	**2%**	1.12E+00	**6%**	0.00E+00	**0%**	1.17E-01	**< 1%**
Water pollution (WP)	**2.55E+02**	**m^3**	2.47E+02	**97%**	3.14E+00	**1%**	3.57E+00	**1%**	0.00E+00	**0%**	1.07E+00	**< 1%**
Air pollution (AP)	**1.20E+02**	**m^3**	1.13E+02	**94%**	7.84E-01	**< 1%**	6.06E+00	**5%**	0.00E+00	**0%**	7.69E-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. The environmental impacts of the Reference Product are representative of the products covered by the PEP, which therefore constitute a homogeneous environmental family.



The environmental impact of the Reference Product occurs predominantly during the manufacturing phase.

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ENVIRONMENTAL IMPACTS (continued)

For products other than the Reference Product, the environmental impacts can be estimated by weighting the environmental impacts of the Reference Product by the values shown in the table below. Impacts for Use are not applicable.

Part Number	Manufacturing	Distribution	Installation	End of Life
OR-FST2-F012 and OR-20500043	ADPe / POCP / FW: 1.0 A / OD: 0.5 WP: 3.0 all else: 1.3	1.2	1.0	ADPe / AP: 2.2 EP: 1.3 OD/FW: 2.5 all else: 1.8
OR-FST3-F048 and OR-20500337	ADPe: 3.8 A / OD: 0.4 POCP: 0.8 WP: 4.0 all else: 1.5	1.7	4.0	ADPe / AP: 3.0 EP: 1.8 OD/FW: 3.5 all else: 2.5

Registration number: LGRP-00013-V01.02-EN	Drafting rules: "PCR-ed3-EN-2015 04"
Verifier's accreditation number: VH25	Information and reference documents: **www.pep-ecopassport.org**
Date of issue: 11-2015	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).	
The elements of the present PEP cannot be compared with elements from another program.	
Documents in compliance with ISO 14025:2010: "Environmental labels and declarations - Type III environmental declarations"	
In compliance with ISO 14040:2006: "Environmental management – LCA – Principles and framework" In compliance with ISO 14044:2006: "Environmental management – LCA – Requirements and guidelines" In alignment with EN 15804:2012+A1:2013: "Sustainability of construction works - EPD's - Core rules for the product category of construction products"	