

# Product Environmental Profile

## Infinium acclAIM(TM) Fiber Trunk Assemblies 48 & 24 fibres, OS2/OM4/OM5

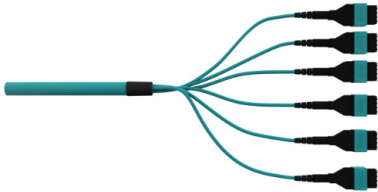


### LEGRAND'S ENVIRONMENTAL COMMITMENTS

- 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

<b>Function</b>	To connect 6 connections points on each end of a cable through acclAIM connectors and transmit a communication signal on 50 m during a 10 year typical lifetime and a 100% use rate according to TIA-568-C.3-2009 for Single-Mode fiber.
<b>Reference Product</b>	
Cat.No C76DEEMMY050M	
ACCLAIM TRUNK, LSZH, 48 FIBER, OM4, CCA, 50M	

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:

<b>Catalogue Numbers</b>
C76DEEMMY050M; C76DAEMMY010M; C76DAEMMY020M; C76DAEMMY030M; C76DAEMMY040M; C76DAEMMY050M; C76DAHMMY050M; C76DAJMMY010M; C76DAJMMY020M; C76DAJMMY030M; C76DAJMMY040M; C76DAJMMY050M; C76DEJMMY050M

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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.

<b>Total weight of Reference Product</b>	<b>9.4 kg</b> (all packaging included)
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Product alone weight 4.9 kg					
Plastics as % of weight		Metals as % of weight		Other as % of weight	
EVA	43.4 %	Copper and copper alloys	0.3 %		
PA	5.7 %	Steel	< 0.1 %		
PMMA	1.0 %				
PET	0.6 %				
Other plastics	0.7 %				
HIPS	< 0.1 %				
PE	< 0.1 %				
PVC	< 0.1 %				

Packaging (alone) : 4.5 kg					
PP	< 0.1 %			wood	40.3 %
				Cardboard	8.0 %
				Paper	< 0.1 %

<b>Total plastics : 4.8 kg</b>	<b>51.3 %</b>	<b>Total metals : 0.1 kg</b>	<b>0.4 %</b>	<b>Total others : 4.5 kg</b>	<b>48.3 %</b>
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At the date of edition of this document, the content of recycled material(s) is :

- Product alone (excluding packaging): 13.27 % by mass
- Packaging only: 0.40 % 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 3699 km by plane, 816 km by truck and 1007 km by boat 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.



### 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:

<b>System Limit</b>	<b>Manufacture A1-A3</b>	Materials and components of the product, all transport for the manufacturing, the packaging and the waste generated by the manufacturing.
	<b>Distribution A4</b>	Transport between the last Group distribution centre and an average delivery point in the sales area.
	<b>Installation A5</b>	The end of life of the packaging.
	<b>Use B1-B7</b>	<ul style="list-style-type: none"> <li>• Product category: Optical fiber patch cord.</li> <li>• Use scenario: Continuous operation (100% of the time) for 10 years. This modelling period does not constitute a maximum durability requirement.</li> <li>• Energy model: Electricity Mix_Low voltage_2018_China_CN.</li> </ul>
	<b>End of life C1-C4</b>	Choice of end-of-life by default model for PCR-ed4-EN-2021 09 06.
<b>D Module</b>	<p>Module D is calculated according to PCR-ed4-EN-2021 09 06 based on the materials recycled and the modelled end-of-life scenario.</p> <p>It expresses the net benefits and loads beyond the boundaries of the system, and are not to be included in the life cycle totals.</p>	
<b>Software and data-base used</b>	The indicators set used is « Indicators for PEF EF 3.0 (compliance: PEF 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 aforementioned database.

# Product Environmental Profile

**Infinium acclAIM(TM) Fiber Trunk Assemblies 48 & 24 fibres,  
OS2/OM4/OM5**



## ENVIRONMENTAL IMPACTS

	Total Life Cycle		Manufacturing	Distribution	Installation	Use <sup>(1)</sup>			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
<b>Climate change - total</b>	<b>8.50E+01</b>	<b>kg CO<sub>2</sub> eq.</b>	6.65E+01	8.52E+00	7.16E+00	3.61E-01	3.61E-01	0*	2.53E+00	8,20E-01
<b>Climate change - fossil fuels</b>	<b>7.75E+01</b>	<b>kg CO<sub>2</sub> eq.</b>	6.57E+01	8.52E+00	3.80E-01	3.61E-01	3.6E-01	0*	2.53E+00	7,31E-01
<b>Climate change - biogenics</b>	<b>7.52E+00</b>	<b>kg CO<sub>2</sub> eq.</b>	7.30E-01	0*	6.79E+00	0*	0*	0*	4.00E-03	8,94E-02
<b>Climate change - land use and land use transformation</b>	<b>6.72E-04</b>	<b>kg CO<sub>2</sub> eq.</b>	6.72E-04	0*	0*	0*	0*	0*	7.10E-08	0,00E+00
<b>Ozone depletion</b>	<b>2.57E-06</b>	<b>kg CFC-11 eq.</b>	2.51E-06	9.89E-09	8.73E-09	2.06E-09	2.06E-09	0*	4.00E-08	1,49E-08
<b>Acidification (AP)</b>	<b>4.98E-01</b>	<b>mole of H<sup>+</sup> eq.</b>	4.53E-01	3.56E-02	2.84E-03	2.70E-03	2.7E-03	0*	3.41E-03	1,94E-03
<b>Freshwater eutrophication</b>	<b>2.76E-04</b>	<b>kg P eq.</b>	1.46E-04	3.00E-06	1.36E-07	7.63E-08	7.63E-08	0*	1.27E-04	1,16E-05
<b>Marine aquatic eutrophication</b>	<b>8.94E-02</b>	<b>kg of N eq.</b>	7.10E-02	1.60E-02	1.09E-03	2.89E-04	2.89E-04	0*	9.66E-04	1,17E-03
<b>Terrestrial eutrophication</b>	<b>9.76E-01</b>	<b>mole of N eq.</b>	7.73E-01	1.75E-01	1.33E-02	3.27E-03	3.27E-03	0*	1.13E-02	9,58E-03
<b>Photochemical ozone formation</b>	<b>2.88E-01</b>	<b>kg NMVOC eq.</b>	2.38E-01	4.29E-02	2.97E-03	9.66E-04	9.66E-04	0*	2.94E-03	2,34E-03
<b>Depletion of abiotic resources - elements</b>	<b>4.69E-05</b>	<b>kg Sb eq.</b>	4.38E-05	3.35E-07	0*	0*	0*	0*	3.25E-06	-1,60E-05
<b>Depletion of abiotic resources - fossil fuels</b>	<b>1.25E+03</b>	<b>MJ</b>	1.11E+03	1.19E+02	5.41E+00	5.84E+00	5.84E+00	0*	9.08E+00	8,78E+00
<b>Water requirement</b>	<b>3.50E+00</b>	<b>m<sup>3</sup> deprivation worldwide eq.</b>	2.34E+00	3.38E-02	7.93E-01	1.59E-02	1.6E-02	0*	3.19E-01	9,20E-02
<b>Emission of fine particles</b>	<b>2.65E-06</b>	<b>incidence of diseases</b>	2.37E-06	2.22E-07	1.84E-08	1.48E-08	1.5E-08	0*	2.24E-08	1,15E-08

\* 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

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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## Infinium acclAIM(TM) Fiber Trunk Assemblies 48 & 24 fibres, OS2/OM4/OM5



	Total Life Cycle		Manufacturing	Distribution	Installation	Use <sup>(1)</sup>			End of Life	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
<b>Ionizing radiation, human health</b>	<b>2.22E+01</b>	<b>kBq of U235 eq.</b>	2.20E+01	1.57E-02	1.37E-02	4.29E-02	4.29E-02	0*	9.28E-02	-3,23E+00
<b>Ecotoxicity (fresh water)</b>	<b>2.05E+03</b>	<b>CTUe</b>	2.02E+03	5.54E+00	1.60E+00	6.81E+00	6.81E+00	0*	1.53E+01	1,51E+01
<b>Human toxicity, carcinogenic effects</b>	<b>1.33E-06</b>	<b>CTUh</b>	1.32E-06	0*	0*	0*	0*	0*	2.29E-09	-1,24E-07
<b>Human toxicity, non-carcinogenic effects</b>	<b>5.81E-07</b>	<b>CTUh</b>	5.45E-07	6.81E-09	7.88E-09	2.63E-09	2.63E-09	0*	1.78E-08	-2,18E-08
<b>Impacts related to land use/soil quality</b>	<b>2.96E+00</b>	<b>-</b>	2.58E+00	0*	0*	1.05E-03	1.05E-03	0*	3.81E-01	1,11E-02
<b>Use of renewable primary energy, excluding renewable primary energy resources used as raw materials</b>	<b>3.09E+01</b>	<b>MJ</b>	3.00E+01	1.34E-01	1.12E-02	6.18E-01	6.2E-01	0*	1.15E-01	-2,54E+00
<b>Use of renewable primary energy resources used as raw materials</b>	<b>8.18E+01</b>	<b>MJ</b>	8.18E+01	0*	0*	0*	0*	0*	0*	1,08E+01
<b>Total use of renewable primary energy resources (primary energy and primary energy resources used as raw materials)</b>	<b>1.13E+02</b>	<b>MJ</b>	1.12E+02	1.34E-01	0*	6.18E-01	6.2E-01	0*	1.15E-01	8,26E+00
<b>Use of non-renewable primary energy, excluding non-renewable primary energy resources used as raw materials</b>	<b>1.15E+03</b>	<b>MJ</b>	1.01E+03	1.19E+02	5.41E+00	5.84E+00	5.8E+00	0*	9.08E+00	8,55E+00
<b>Use of non-renewable primary energy resources used as raw materials</b>	<b>9.85E+01</b>	<b>MJ</b>	9.85E+01	0*	0*	0*	0*	0*	0*	2,24E-01
<b>Total use of non-renewable primary energy resources (primary energy and primary energy resources used as raw materials)</b>	<b>1.25E+03</b>	<b>MJ</b>	1.11E+03	1.19E+02	5.41E+00	5.84E+00	5.84E+00	0*	9.08E+00	8,78E+00

\* 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

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	Module D
			A1-A3	A4	A5	Total B1-B7	B2	B6	C1-C4	
Use of secondary materials	6.29E-01	kg	6.29E-01	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	6.58E-02	m <sup>3</sup>	3.87E-02	7.87E-04	1.85E-02	3.71E-04	3.7E-04	0*	7.44E-03	2,14E-03
Hazardous waste disposed of	1.03E+01	kg	5.38E+00	0*	0*	1.10E-02	1.10E-02	0*	4.88E+00	-1,45E+00
Non-hazardous waste disposed of	2.35E+01	kg	1.78E+01	2.52E-01	4.80E+00	6.29E-02	6.29E-02	0*	6.64E-01	4,50E-01
Radioactive waste disposed of	3.22E-03	kg	2.85E-03	1.61E-04	1.42E-04	2.57E-06	2.57E-06	0*	6.48E-05	2,06E-04
Components for re-use	0.00E+00	kg	0*	0*	0*	0*	0*	0*	0*	0,00E+00
Materials for recycling	3.41E-02	kg	7.93E-03	0*	0*	0*	0*	0*	2.61E-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
<b>Total use of primary energy during the life cycle</b>	<b>1.37E+03</b>	<b>MJ</b>	<b>1.23E+03</b>	<b>1.19E+02</b>	<b>5.43E+00</b>	<b>6.46E+00</b>	<b>6.46E+00</b>	<b>0*</b>	<b>9.20E+00</b>	<b>1,70E+01</b>

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	1.69E+00	kg of C	1.69E+00	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

<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

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.

# Product Environmental Profile

## Infinium acCLAIM(TM) Fiber Trunk Assemblies 48 & 24 fibres, OS2/OM4/OM5



Associated references		Coefficient of extrapolation of environmental indicators					
		Total life Cycle	Manufacturing	Distribution	Installation	Use	End of life
C76DEEMMY050M	Trunk ACCLAIM. LSZH. 48 FIBRE. OM4. CCA. 50M	1.0	1.0	1.0	1.0	1.0	1.0
C76DAEMMY010M	LIEN ACCLAIM. LSZH. 24 FIBRE. OM4. CCA. 10M	0.2	0.2	0.1	0.1	0.5	0.1
C76DAEMMY020M	LIEN ACCLAIM. LSZH. 24 FIBRE. OM4. CCA. 20M	0.4	0.4	0.4	0.5	0.5	0.3
C76DAEMMY030M	LIEN ACCLAIM. LSZH. 24 FIBRE. OM4. CCA. 30M	0.6	0.6	0.5	0.6	0.5	0.4
C76DAEMMY040M	LIEN ACCLAIM. LSZH. 24 FIBRE. OM4. CCA. 40M	0.8	0.8	0.6	0.7	0.5	0.6
C76DAEMMY050M	LIEN ACCLAIM. LSZH. 24 FIBRE. OM4. CCA. 50M	1.0	1.0	0.7	0.8	0.5	0.7
C76DAHMMY050M	LIEN ACCLAIM. LSZH. 24 FIBRE. OM5. CCA. 50M	1.0	1.0	0.7	0.8	0.5	0.7
C76DAJMMY010M	LIEN ACCLAIM. LSZH. 24 FIBRE. OS2. CCA. 10M	0.2	0.2	0.1	0.1	0.5	0.1
C76DAJMMY020M	LIEN ACCLAIM. LSZH. 24 FIBRE. OS2. CCA. 20M	0.4	0.4	0.4	0.5	0.5	0.3
C76DAJMMY030M	LIEN ACCLAIM. LSZH. 24 FIBRE. OS2. CCA. 30M	0.6	0.6	0.5	0.6	0.5	0.4
C76DAJMMY040M	LIEN ACCLAIM. LSZH. 24 FIBRE. OS2. CCA. 40M	0.8	0.8	0.6	0.7	0.5	0.6
C76DAJMMY050M	LIEN ACCLAIM. LSZH. 24 FIBRE. OS2. CCA. 50M	1.0	1.0	0.7	0.8	0.5	0.7
C76DEJMMY050M	LIEN ACCLAIM. LSZH. 48 FIBRE. OS2. CCA. 50M	1.0	1.0	1.0	1.0	1.0	1.0

Registration number: <b>LGRP-01784-V01.01-EN</b>	Drafting rules: « <b>PEP-PCR-ed4-EN-2021 09 06</b> »
Verifier accreditation N°: <b>VH02</b>	Information and reference documents: <b>www.pep-ecopassport.org</b>
Date of issue: <b>10-2023</b>	Validity period: <b>5 years</b>
<b>Independent verification of the declaration and data, in compliance with ISO 14025 : 2006</b>	
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