

Product Environmental Profile

FBM247 Termination Cable

Standard 200 Series Termination Cable Assemblies





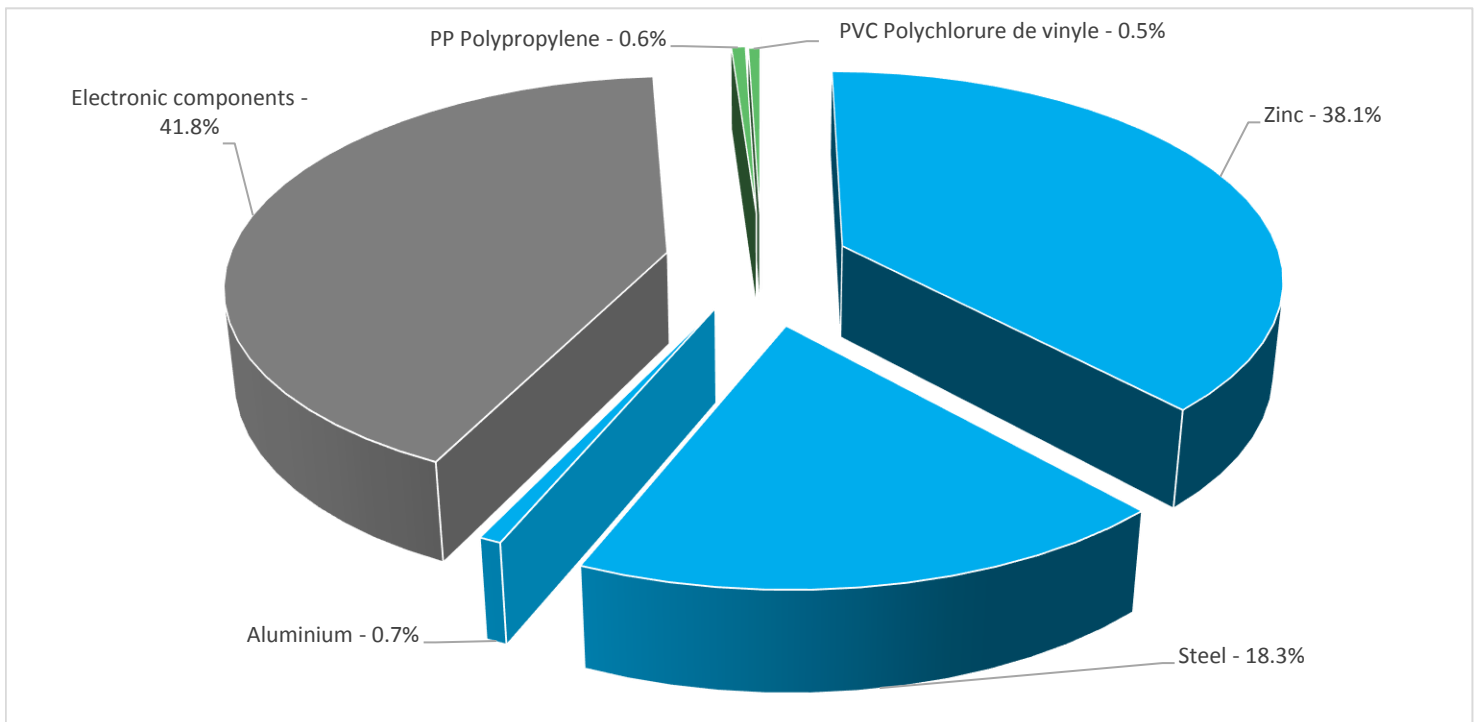
General information

Representative product	FBM247 Termination Cable - RH916DA
Description of the product	Termination cables are used to pass analog, discrete, digital communication and low voltage power signals from the Termination Assembly to the associated FBM.
Description of the range	Standard Termination Cable Assemblies The environmental impacts of this referenced product are representative of the impacts of the other products of the range which are developed with a similar technology.
Functional unit	To transmit data and signals on a distance of 0.5 meter during 5 years and a 100% use rate to control, measure and regulate equipments, in accordance with Foxboro technical document # P0170TX.



Constituent materials

Reference product mass 170 g including the product, its packaging and additional elements and accessories



Plastics	1.1%
Metals	57.1%
Others	41.8%



Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 8 June 2011) and do not contain, or only contain in the authorised proportions, lead, mercury, cadmium, hexavalent chromium or flame retardants (polybrominated biphenyls - PBB, polybrominated diphenyl ethers - PBDE) as mentioned in the Directive

As the products of the range are designed in accordance with the RoHS Directive (European Directive 2002/95/EC of 27 January 2003), they can be incorporated without any restriction in an assembly or an installation subject to this Directive.

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website

<http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page>

Additional environmental information

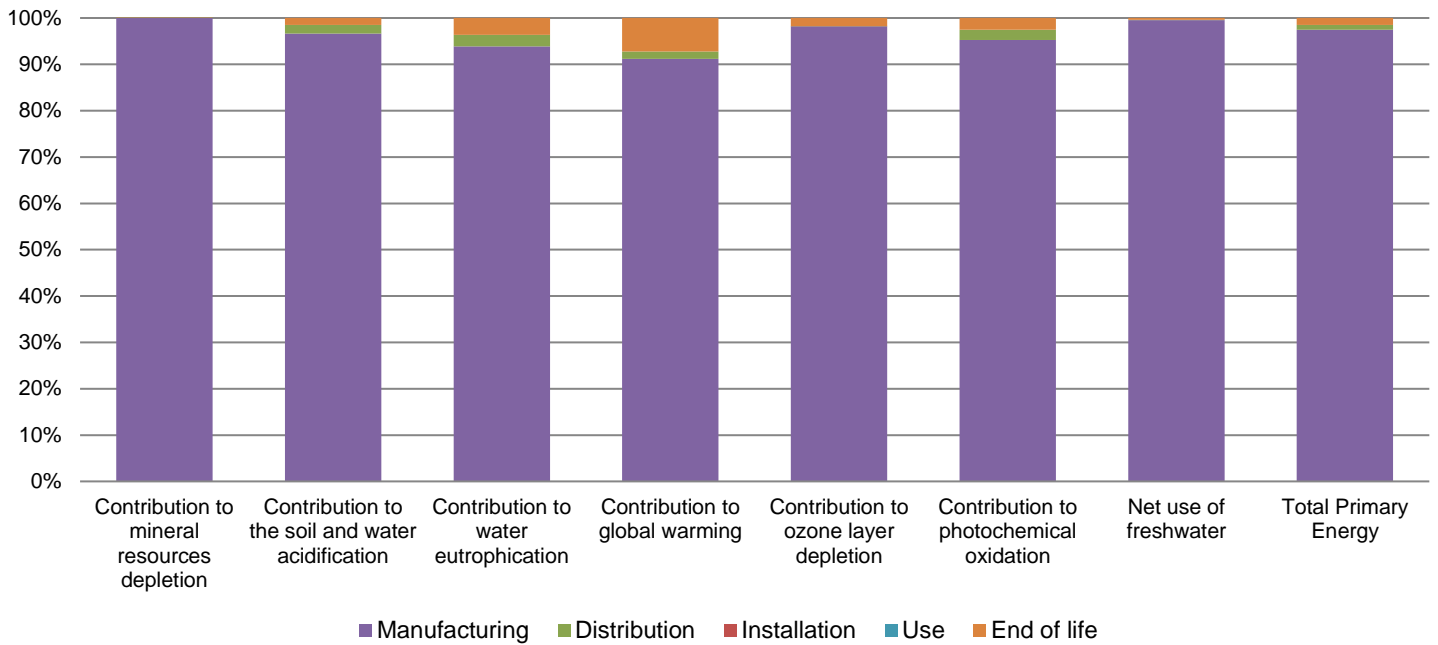
The FBM247 Termination Cable presents the following relevant environmental aspects

Manufacturing	Manufactured at a production site complying with the regulations
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive
Installation	FBM247 Termination Cable Assemblies does not require any installation operations.
Use	The product does not require special maintenance operations.
End of life	<p>End of life optimized to decrease the amount of waste and allow recovery of the product components and materials</p> <p>This product contains Cable and Connectors(73.92 g) that should be separated from the stream of waste so as to optimize end-of-life treatment.</p> <p>http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</p> <p>Recyclability potential: 55% Based on "ECO'DEEE recyclability and recoverability calculation method" (version V1, 20 Sep. 2008 presented to the French Agency for Environment and Energy Management: ADEME).</p>

Environmental impacts

Reference life time	5 years			
Installation elements	No special components needed			
Use scenario	The product is in use 100% of the time with a power consumption of 0W for 5 years			
Geographical representativeness	USA			
Technological representativeness	Termination cables are used to pass analog, discrete, digital communication and low voltage power signals from the Termination Assembly to the associated FBM.			
Energy model used	Manufacturing	Installation	Use	End of life
	Energy model used: Mexico	Electricity mix; AC; consumption mix, at consumer; 120V; US	Electricity mix; AC; consumption mix, at consumer; 120V; US	Electricity mix; AC; consumption mix, at consumer; 120V; US

Compulsory indicators		FBM247 Termination Cable - RH916DA					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.45E-04	1.45E-04	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO ₂ eq	5.57E-03	5.38E-03	1.00E-04	0*	0*	8.50E-05
Contribution to water eutrophication	kg PO ₄ ³⁻ eq	9.17E-04	8.61E-04	2.31E-05	0*	0*	3.32E-05
Contribution to global warming	kg CO ₂ eq	1.38E+00	1.26E+00	2.19E-02	0*	0*	9.96E-02
Contribution to ozone layer depletion	kg CFC11 eq	2.32E-07	2.28E-07	4.44E-11	0*	0*	4.12E-09
Contribution to photochemical oxidation	kg C ₂ H ₄ eq	3.33E-04	3.17E-04	7.15E-06	0*	0*	8.52E-06
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m ³	1.80E-02	1.79E-02	1.96E-06	0*	0*	7.46E-05
Total Primary Energy	MJ	3.09E+01	3.01E+01	3.10E-01	0*	0*	4.71E-01



Optional indicators		FBM247 Termination Cable - RH916DA					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.88E+01	1.81E+01	3.08E-01	0*	0*	4.05E-01
Contribution to air pollution	m ³	5.95E+02	5.91E+02	9.33E-01	0*	0*	3.07E+00
Contribution to water pollution	m ³	1.54E+02	1.02E+02	3.61E+00	0*	0*	4.85E+01
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.65E-02	1.65E-02	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.41E-01	1.40E-01	4.13E-04	0*	0*	3.97E-04
Total use of non-renewable primary energy resources	MJ	3.08E+01	3.00E+01	3.10E-01	0*	0*	4.71E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.41E-01	1.40E-01	4.13E-04	0*	0*	3.97E-04
Use of renewable primary energy resources used as raw material	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	2.96E+01	2.88E+01	3.10E-01	0*	0*	4.71E-01
Use of non renewable primary energy resources used as raw material	MJ	1.23E+00	1.23E+00	0*	0*	0*	0*
Use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*
Waste categories	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Hazardous waste disposed	kg	5.29E-01	1.98E-01	0*	0*	0*	3.31E-01
Non hazardous waste disposed	kg	1.03E-01	1.00E-01	7.79E-04	0*	0*	1.31E-03
Radioactive waste disposed	kg	1.76E-04	1.72E-04	5.55E-07	0*	0*	2.63E-06
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	1.09E-01	1.09E-02	0*	0*	0*	9.81E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	1.39E-02	8.15E-06	0*	0*	0*	1.39E-02
Exported Energy	MJ	0.00E+00	0*	0*	0*	0*	0*

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

Life cycle assessment performed with EIME version EIME v5.7.0.2, database version 2016-11 in compliance with ISO14044.

The manufacturing phase is the life cycle phase which has the greatest impact on the majority of environmental indicators (based on compulsory indicators).

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range.

Depending on the impact analysis, the environmental indicators of other products in this family may be proportional extrapolated by the length of cable.

Please note that the values given above are only valid within the context specified and cannot be used directly to draw up the environmental assessment of an installation.

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<i>Validity period</i>	5 years	<i>Information and reference documents</i>	www.pep-ecopassport.org
<i>Independent verification of the declaration and data</i>			
Internal	X	External	
<i>The elements of the present PEP cannot be compared with elements from another program.</i>			
<i>Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »</i>			

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