Product Environmental Profile

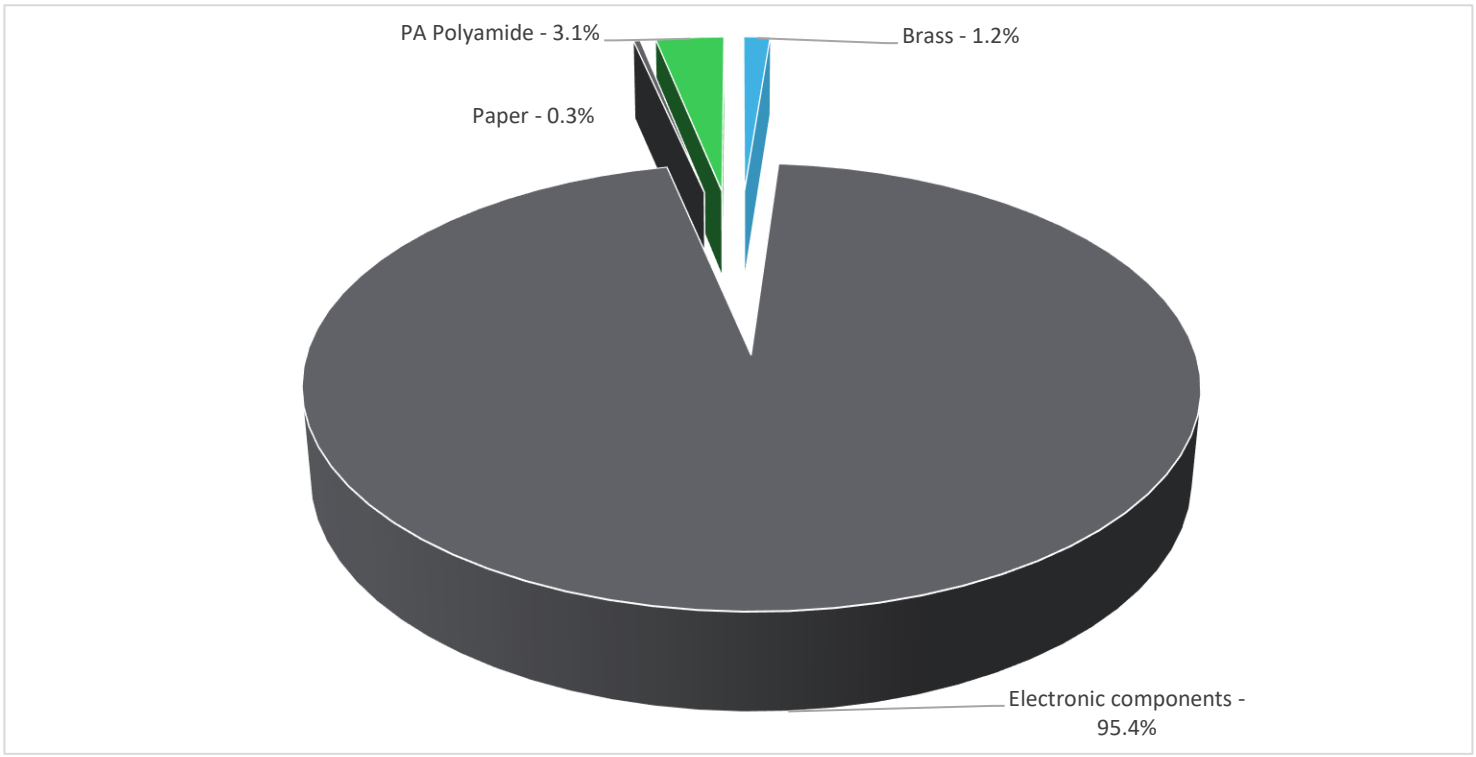
VW3E20 Feedback Cable

General information

Representative product	VW3E20 Feedback Cable - VW3E2094R010 – Encoder Sincos SH TO LXM, UL, 1 meter
Description of the range	The VW3E20 Feedback Cable range contains pre-assembled cables for the Pac Drive 3 offer. This range consists of feedback cables with different lengths (from 50 cm to 50 m) and plug connector variants. 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 one meter during 10 years and a 100% use rate to control, measure and regulate equipments

Constituent materials

Reference product mass	140g	including the product, its packaging and additional elements and accessories



Plastics	3.1%
Metals	1.2%
Others	95.7%

Substance assessment

Products of this range are designed in conformity with the requirements of the RoHS directive (European Directive 2011/65/EU of 2 January 2013, amended in March 2015, 2015/863/EU and in November 2017, 2017/2102/EU) 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), Bis (2-ethylhexyl)phthalate - DEHP, Benzyl butyl phthalate– BBP, Dibutyl phthalate - DBP, Diisobutyl phthalate - DIBP) as mentioned in the 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

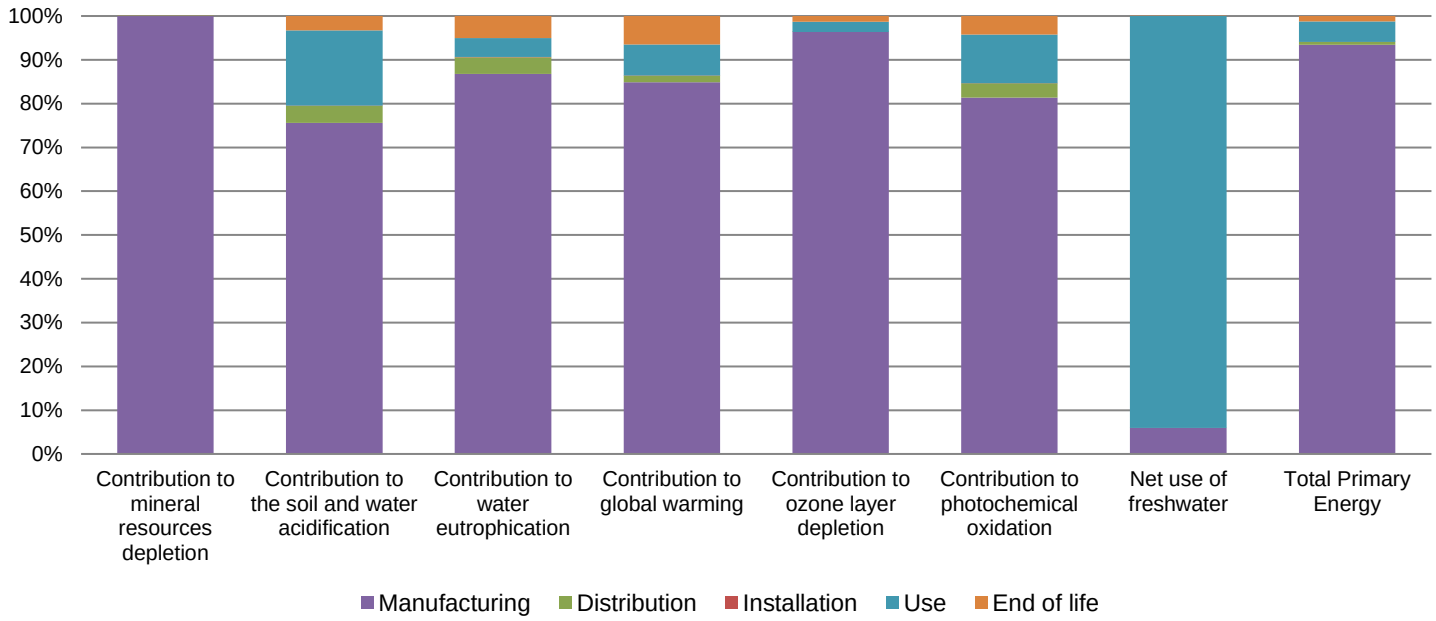
Additional environmental information

The VW3E20 Feedback Cable presents the following relevent environmental aspects	
Manufacturing	Manufactured at a Schneider Electric production site ISO14001 certified
Distribution	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 4.8 g, consisting of Polyamide (92%) and paper (8%) Product distribution optimised by setting up local distribution centres
Installation	The product does not require any specific installation operation
Use	The product does not require special maintenance operations.
End of life	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials This product contains one cable (60g) that should be separated from the stream of waste so as to optimize end-of-life treatment. The location of these components and other recommendations are given in the End of Life Instruction document which is available on the Schneider-Electric Green Premium website http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page Recyclability potential: **15%** 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).

Environmental impacts

Reference life time	10 years			
Installation elements	No special components needed			
Use scenario	The product is in active mode 100% of the time with a power dissipation of 2,096 mW, for 10 years			
Geographical representativeness	Europe			
Technological representativeness	The VW3E20 Feedback Cable range contains pre-assembled cables for the Pac Drive 3 offer. This range consists of feedback cables with different lengths (from 50 cm to 50 m) and plug connector variants.			
Energy model used	**Manufacturing**	**Installation**	**Use**	**End of life**
	Energy model used: Germany	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27	Electricity grid mix; AC; consumption mix, at consumer; < 1kV; EU-27

Compulsory indicators		VW3E20 Feedback Cable - VW3E2094R010 – Encoder Sincos SH TO LXM, UL, 1 meter					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	2.74E-04	2.74E-04	0*	0*	0*	0*
Contribution to the soil and water acidification	kg SO_2 eq	2.10E-03	1.59E-03	8.27E-05	9.84E-07	3.60E-04	6.96E-05
Contribution to water eutrophication	kg PO_4^{3-} eq	5.02E-04	4.36E-04	1.91E-05	2.26E-07	2.17E-05	2.53E-05
Contribution to global warming	kg CO_2 eq	1.21E+00	1.03E+00	1.81E-02	2.19E-04	8.63E-02	7.85E-02
Contribution to ozone layer depletion	kg CFC11 eq	2.42E-07	2.33E-07	3.67E-11	0*	5.62E-09	3.22E-09
Contribution to photochemical oxidation	kg C_2H_4 eq	1.79E-04	1.45E-04	5.90E-06	6.99E-08	1.98E-05	7.59E-06
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m3	3.32E-01	1.97E-02	0*	0*	3.13E-01	7.09E-05
Total Primary Energy	MJ	3.67E+01	3.42E+01	2.56E-01	0*	1.72E+00	4.40E-01



Optional indicators		VW3E20 Feedback Cable - VW3E2094R010 – Encoder Sincos SH TO LXM, UL, 1 meter					
Impact indicators	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	1.19E+01	1.04E+01	2.55E-01	3.08E-03	9.79E-01	2.84E-01
Contribution to air pollution	m³	2.76E+02	2.69E+02	7.71E-01	0*	3.71E+00	2.75E+00
Contribution to water pollution	m³	2.03E+02	1.30E+02	2.98E+00	3.60E-02	3.56E+00	6.67E+01
Resources use	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	1.90E-04	1.90E-04	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	4.49E-01	2.29E-01	3.41E-04	0*	2.19E-01	3.43E-04
Total use of non-renewable primary energy resources	MJ	3.62E+01	3.40E+01	2.56E-01	0*	1.50E+00	4.39E-01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	4.49E-01	2.29E-01	3.41E-04	0*	2.19E-01	3.43E-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	3.40E+01	3.18E+01	2.56E-01	0*	1.50E+00	4.39E-01
Use of non renewable primary energy resources used as raw material	MJ	2.19E+00	2.19E+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	1.02E+00	7.04E-01	0*	0*	0*	3.13E-01
Non hazardous waste disposed	kg	4.56E-01	1.32E-01	6.44E-04	0*	3.22E-01	1.23E-03
Radioactive waste disposed	kg	5.18E-04	3.01E-04	4.58E-07	0*	2.15E-04	2.27E-06
Other environmental information	**Unit**	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	2.00E-02	1.62E-04	0*	0*	0*	1.98E-02
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	3.78E-03	0*	0*	0*	0*	3.78E-03
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 v5.8.1, 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.

The environmental impacts of other products in this family may be estimated as follow: The impact categories in the use phase are proportional to the power losses of the product. The impact categories in the manufacturing and distribution phase are proportional to the mass of the product.

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.

Registration number	ENVPEP1409023_V2	*Drafting rules*	PCR-ed3-EN-2015 04 02
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Validity period	5 years	*Information and reference documents*	www.pep-ecopassport.org

Independent verification of the declaration and data

Internal X External

The elements of the present PEP cannot be compared with elements from another program.

Document in compliance with ISO 14021:2016 « Environmental labels and declarations - Self-declared environmental claims (Type II environmental labelling) »

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