

# Product Environmental Profile

## Power Cable





## General information

### Representative product

Power Cable - VW3M5101R100

### Description of the range

This range consists of power cables with different lengths (from 3 meter to 100 meters) and plug connector variants. The representative product used for the analysis is VW3M5101R100 - Power Cordset 4x1.5mm<sup>2</sup>, Length 10 meters.

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 energy over a distance of 1 meter during 10 years at a 50% use rate

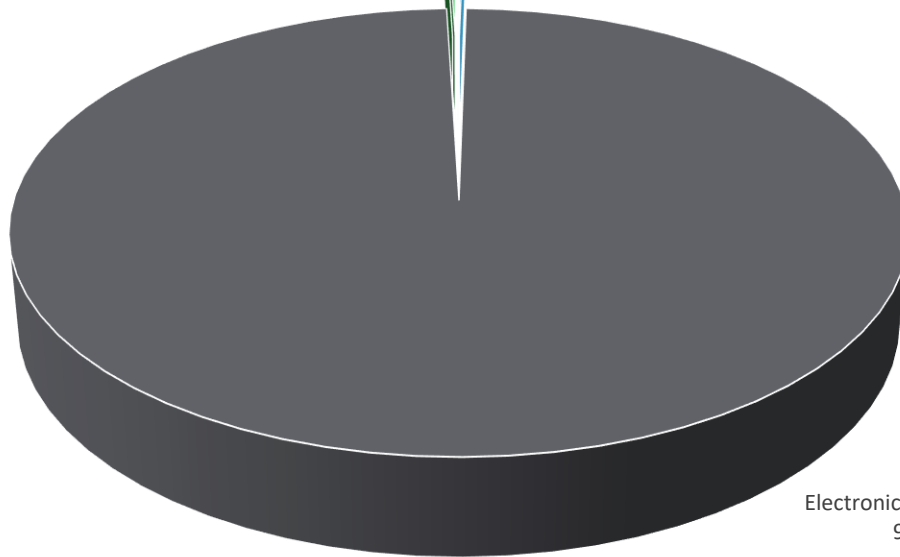


## Constituent materials

### Reference product mass

2412.3 g including the product, its packaging and additional elements and accessories

PE Polyethylene - 0.5%  
Paper - <0.1%  
Brass - 0.3%



Electronic components -  
99.1%

Plastics	0.5%
Metals	0.3%
Others	99.1%



## 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

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

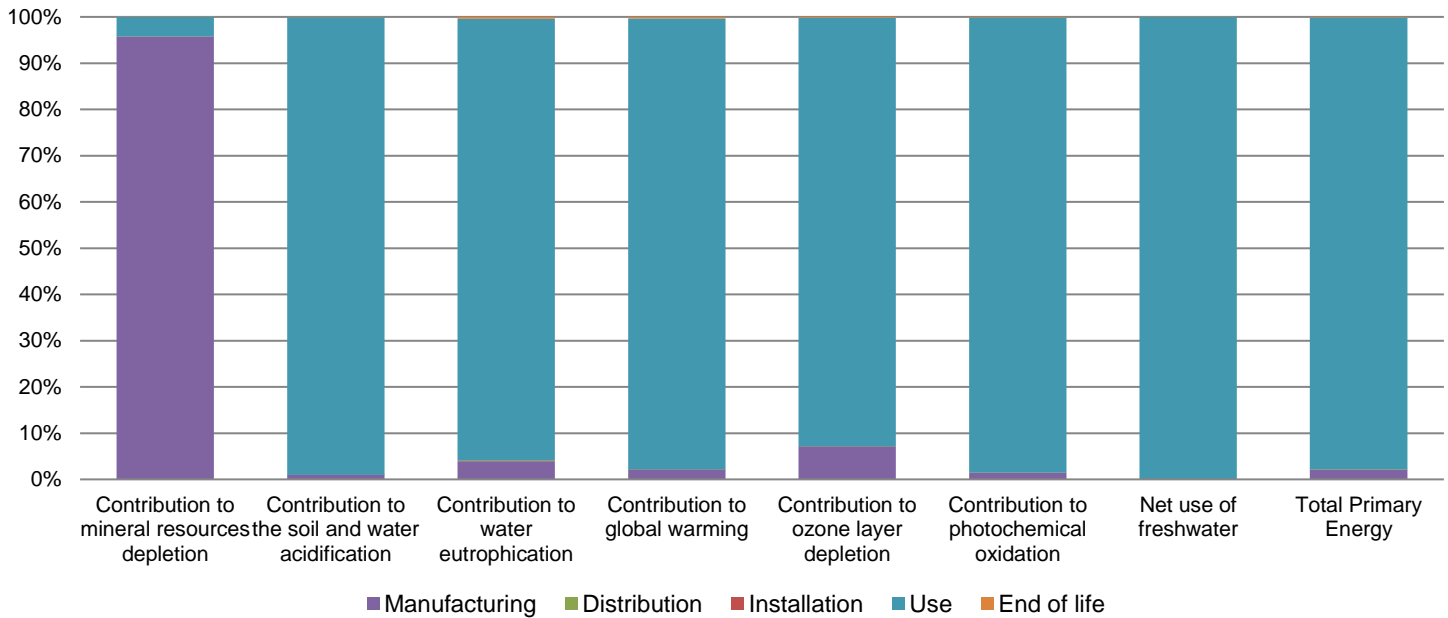
The Power Cable presents the following relevant environmental aspects

<b>Design</b>	Indicate all the eco-design improvements brought to the product at the design phase compared to previous offer range, refer to ecoDesign Way results
<b>Manufacturing</b>	Manufactured at a Schneider Electric production site ISO14001 certified
<b>Distribution</b>	Weight and volume of the packaging optimized, based on the European Union's packaging directive Packaging weight is 12.3 g, consisting of polyethylene film (12.3g) Product distribution optimised by setting up local distribution centres
<b>Installation</b>	Does not require any specific installation operation
<b>Use</b>	The product does not require special maintenance operations.
<b>End of life</b>	End of life optimized to decrease the amount of waste and allow recovery of the product components and materials  This product contains cable (2270g) and connector (123g) 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  <a href="http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page">http://www2.schneider-electric.com/sites/corporate/en/products-services/green-premium/green-premium.page</a>  Recyclability potential: <b>31%</b> 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

<b>Reference life time</b>	10 years			
<b>Installation elements</b>	No special components needed			
<b>Use scenario</b>	The product is in active mode 50% of the time with a power use of 14.4 W and in stand-by mode 50% of the time with a power use of 0W, for 10 years			
<b>Geographical representativeness</b>	Europe			
<b>Energy model used</b>	<b>Manufacturing</b>	<b>Installation</b>	<b>Use</b>	<b>End of life</b>
	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		Power Cable - VW3M5101R100					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to mineral resources depletion	kg Sb eq	1.28E-03	1.23E-03	0*	0*	5.37E-05	0*
Contribution to the soil and water acidification	kg SO <sub>2</sub> eq	2.61E+00	2.47E-02	1.41E-03	0*	2.58E+00	1.75E-03
Contribution to water eutrophication	kg PO <sub>4</sub> <sup>3-</sup> eq	1.63E-01	6.39E-03	3.26E-04	0*	1.56E-01	6.63E-04
Contribution to global warming	kg CO <sub>2</sub> eq	6.34E+02	1.34E+01	3.10E-01	0*	6.18E+02	2.28E+00
Contribution to ozone layer depletion	kg CFC11 eq	4.35E-05	3.11E-06	0*	0*	4.03E-05	1.00E-07
Contribution to photochemical oxidation	kg C <sub>2</sub> H <sub>4</sub> eq	1.44E-01	1.99E-03	1.01E-04	0*	1.42E-01	2.00E-04
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Net use of freshwater	m <sup>3</sup>	2.24E+03	0*	0*	0*	2.24E+03	0*
Total Primary Energy	MJ	1.26E+04	2.66E+02	4.38E+00	0*	1.23E+04	1.26E+01



Optional indicators		Power Cable - VW3M5101R100					
Impact indicators	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Contribution to fossil resources depletion	MJ	7.17E+03	1.45E+02	4.35E+00	0*	7.02E+03	7.46E+00
Contribution to air pollution	m <sup>3</sup>	2.87E+04	2.02E+03	1.32E+01	0*	2.66E+04	7.36E+01
Contribution to water pollution	m <sup>3</sup>	2.93E+04	1.28E+03	5.09E+01	0*	2.55E+04	2.48E+03
Resources use	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Use of secondary material	kg	9.60E-04	9.60E-04	0*	0*	0*	0*
Total use of renewable primary energy resources	MJ	1.57E+03	2.99E-01	0*	0*	1.57E+03	0*
Total use of non-renewable primary energy resources	MJ	1.11E+04	2.65E+02	4.37E+00	0*	1.08E+04	1.26E+01
Use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.57E+03	2.99E-01	0*	0*	1.57E+03	0*
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	1.10E+04	2.18E+02	4.37E+00	0*	1.08E+04	1.26E+01
Use of non renewable primary energy resources used as raw material	MJ	4.73E+01	4.73E+01	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	8.74E+00	2.06E+00	0*	0*	3.22E-01	6.35E+00
Non hazardous waste disposed	kg	2.30E+03	4.92E-01	0*	0*	2.30E+03	0*
Radioactive waste disposed	kg	1.54E+00	6.75E-04	0*	0*	1.54E+00	0*
Other environmental information	Unit	Total	Manufacturing	Distribution	Installation	Use	End of Life
Materials for recycling	kg	7.60E-01	1.17E-03	0*	3.68E-03	0*	7.55E-01
Components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*
Materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*
Exported Energy	MJ	5.73E-07	0*	0*	5.73E-07	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 use 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.

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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Date of issue	09/2020	Supplemented by	PSR-0001-ed3-EN-2015 10 16
Validity period	5 years	Information and reference documents	<a href="http://www.pep-ecopassport.org">www.pep-ecopassport.org</a>
<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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