Product Environmental Profile

Dexson Trunking and Mini-trunking

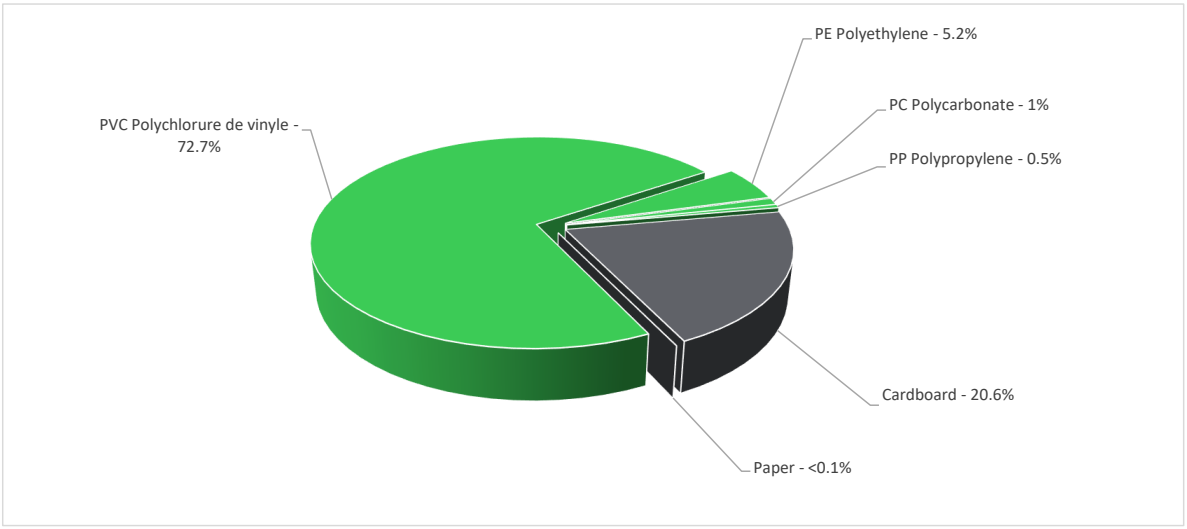
As referent product for :
All type of Dexson Trunking & Mini Trunking & its accessories

General information

Reference product	The Dexson Trunking and Minitrunking system consists of the following configurations: • DXN10051E : Trunking 20 x 12 MM • DXN11043E : Flat Elbow (Flat angle 90°) MINICANAL 12X20MM • DXN11044E : Tee (Derivation T) MINICANAL 12X20MM • DXN11041E : External Elbow MINICANAL 12X20MM • DXN11042E : Internal Elbow MINICANAL 12X20MM • DXN11046E : Cover Clip (Union) MINICANAL 12X20MM • DXN11045E : Cover (End Cap) MINICANAL 12X20MM
Description of the product	The main purpose of Dexson Trunking is for Safe and efficient solution for cable management application for routing of power, data and control cables in light-, medium- and heavy-duty commercial buildings, industrial and OEM applications.
Description of the range	The Indicator Values of this Dexson Trunking & Mini-Trunking to be extrapolated for other trunking based on the Cross sections of the products. The environmental impacts of this reference product are representative of the impacts of the other products of the range which are developed with a similar technology.
Functional unit	To accommodate and protect the wiring and wiring accessories for 20 years along 1 meter with the cross-section 175 mm². The trunking system includes the profile and accessories that are representative of standard use, and giving IP40 protection in accordance with the standard IEC 60529, IK06 in accordance with the standard IEC 62262 and with relevant standard EN 50085.

Constituent materials

Reference product mass	158 g	including the product, its packaging



	Plastics	79.4%
	Others	20.6%

Substance assessment

Details of ROHS and REACH substances information are available on the Schneider-Electric Green Premium website
https://www.se.com/ww/en/work/support/green-premium/

Additional environmental information

End Of Life	Recyclability potential:	**0%**	Recyclability rate has been calculated based on REEECY'LAB tool developed by Ecosystem, for components/materials not covered by the tool, data from the "ECO'DEEE recyclability and recoverability calculation method" was taken. If no data was found a conservative assumption was used (0% recyclability).

Environmental impacts

Reference service life time	20 years			
Installation elements	This product does not requrie any special componets during installation			
Use scenario	No Power Consumption, Since it has no electronic parts and no current-carrying parts.			
Technological representativeness	The Modules of Technologies such as material production, manufacturing process and transport technology used in this PEP analysis (LCA-EIME in this case) are Similar and representative of the actual type of technologies used to make the product in production.			
Geographical representativeness	South America			
Energy model used	**[A1 - A3]**	**[A5]**	**[B6]**	**[C1 - C4]**
	Electricity mix; AC; consumption mix, at consumer; 110V; CO	Electricity mix; AC; consumption mix, at consumer; 110V; CO	Electricity mix; AC; consumption mix, at consumer; 110V; CO	Electricity mix; AC; consumption mix, at consumer; 110V; CO

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.schneider-electric.com/contact

Mandatory Indicators		**Dexson Trunking and Mini-trunking - DXN10051E, DXN11043E, DXN11044E, DXN11041E, DXN11042E, DXN11046E, DXN11045E**						
Impact indicators	**Unit**	**Total**	**Manufacturing [A1 - A3]**	**Distribution [A4]**	**Installation [A5]**	**Use [B1 - B7]**	**End of Life [C1 - C4]**	**Benefits [D]**
Contribution to climate change	kg CO2 eq	1.03E+00	6.46E-01	2.90E-03	6.06E-02	0*	3.25E-01	-8.22E-02
Contribution to climate change-fossil	kg CO2 eq	9.99E-01	6.14E-01	2.90E-03	5.79E-02	0*	3.25E-01	-7.95E-02
Contribution to climate change-biogenic	kg CO2 eq	3.43E-02	3.16E-02	0*	2.68E-03	0*	0*	-2.75E-03
Contribution to climate change-land use and land use change	kg CO2 eq	2.11E-08	0*	0*	2.11E-08	0*	0*	0.00E+00
Contribution to ozone depletion	kg CFC-11 eq	4.68E-08	3.35E-08	2.41E-09	4.10E-09	0*	6.75E-09	-4.19E-09
Contribution to acidification	mol H+ eq	3.45E-03	2.93E-03	1.32E-05	2.42E-04	0*	2.73E-04	-3.72E-04
Contribution to eutrophication, freshwater	kg $(PO4)^{3-}$ eq	8.98E-06	8.44E-06	0*	5.30E-07	0*	1.16E-08	-9.42E-07
Contribution to eutrophication marine	kg N eq	5.72E-04	4.33E-04	5.67E-06	6.41E-05	0*	6.96E-05	-9.29E-05
Contribution to eutrophication, terrestrial	mol N eq	6.05E-03	4.68E-03	6.15E-05	4.89E-04	0*	8.16E-04	-7.92E-04
Contribution to photochemical ozone formation - human health	kg COVNM eq	2.10E-03	1.73E-03	2.02E-05	1.31E-04	0*	2.24E-04	-2.27E-04
Contribution to resource use, minerals and metals	kg Sb eq	8.87E-08	8.39E-08	0*	3.84E-09	0*	9.84E-10	-5.64E-09
Contribution to resource use, fossils	MJ	9.19E+00	7.60E+00	3.63E-02	6.24E-01	0*	9.26E-01	-9.28E-01
Contribution to water use	m3 eq	1.66E+00	1.58E+00	0*	3.11E-02	0*	4.32E-02	-5.29E-02

Additional indicators for the French regulation are available as well

Inventory flows Indicators		**Dexson Trunking and Mini-trunking - DXN10051E, DXN11043E, DXN11044E, DXN11041E, DXN11042E, DXN11046E, DXN11045E**						
Inventory flows	**Unit**	**Total**	**Manufact. [A1 - A3]**	**Distribution [A4]**	**Installation [A5]**	**Use [B1 - B7]**	**End of Life [C1 - C4]**	**Benefits [D]**
Contribution to use of renewable primary energy excluding renewable primary energy used as raw material	MJ	1.24E+00	1.17E+00	0*	4.90E-02	0*	1.79E-02	3.46E-01
Contribution to use of renewable primary energy resources used as raw material	MJ	2.10E-01	2.10E-01	0*	0*	0*	0*	-5.81E-01
Contribution to total use of renewable primary energy resources	MJ	1.45E+00	1.38E+00	0*	4.90E-02	0*	1.79E-02	-2.36E-01
Contribution to use of non renewable primary energy excluding non renewable primary energy used as raw material	MJ	6.12E+00	4.53E+00	3.63E-02	6.24E-01	0*	9.26E-01	-7.73E-01
Contribution to use of non renewable primary energy resources used as raw material	MJ	3.07E+00	3.07E+00	0*	0*	0*	0*	-1.55E-01

Contribution to total use of non-renewable primary energy resources	MJ	9.19E+00	7.60E+00	3.63E-02	6.24E-01	0*	9.26E-01	-9.28E-01
Contribution to use of secondary material	kg	2.45E-02	2.45E-02	0*	0*	0*	0*	0.00E+00
Contribution to use of renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to use of non renewable secondary fuels	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to net use of freshwater	m³	3.86E-02	3.68E-02	0*	7.23E-04	0*	1.01E-03	-1.23E-03
Contribution to hazardous waste disposed	kg	1.40E-01	1.25E-02	2.49E-05	7.08E-04	0*	1.27E-01	-1.78E-03
Contribution to non hazardous waste disposed	kg	7.13E-01	1.79E-01	0*	1.95E-01	0*	3.39E-01	-8.42E-01
Contribution to radioactive waste disposed	kg	1.25E-04	2.56E-05	5.64E-07	2.63E-05	0*	7.23E-05	-4.32E-05
Contribution to components for reuse	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to materials for recycling	kg	3.66E-02	0*	0*	3.66E-02	0*	0*	0.00E+00
Contribution to materials for energy recovery	kg	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to exported energy	MJ	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to biogenic carbon content of the product	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00
Contribution to biogenic carbon content of the associated packaging	kg de C	0.00E+00	0*	0*	0*	0*	0*	0.00E+00

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

Life cycle assessment performed with EIME version 5.9.4, database version 2022-01 in compliance with ISO14044.

Detailed results, including all the optional indicators mentioned in PCRed4, and the split of the Use Phase (B1 to B7), are available in the LCA report and on demand in a digital format - Country Customer Care Center - http://www.schneider-electric.com/contact

According to this environmental analysis, proportionality rules may be used to evaluate the impacts of other products of this range, ratios to apply can be provided upon request

The Manufacturing phase has greatest impact on the majority of environmental indicators.
In Manufacturing Phase, ADPe and WU are the hotspots. The ADPe is majorly impacted by the Cardboard and PVC components(51% & 48% respectively), while Water Use is predominantly impacted by PVC Components (91%).

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 :	SCHN-00871-V01.01-EN	*Drafting rules*	PEP-PCR-ed4-2021 09 06
Verifier accreditation N°	VH48	*Supplemented by*	PSR-0003-ed1.1-2015 10 16
Date of issue	05/2023	*Information and reference documents*	www.pep-ecopassport.org
		Validity period	5 years

Independent verification of the declaration and data, in compliance with ISO 14025 : 2010

Internal External X

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 : 2010 « Environmental labels and declarations. Type III environmental declarations »

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