

Environmental Profile

This LCA is calculated according to: ISO 14044, ISO 14040 and EN 15804

Ecochain v3.5.64



Product: 3065582 - PE Pipe Cable BK 50 L=100 SRE-P VA
 Unit: 1 piece
 Manufacturer: Wavin - SE - Eskilstuna

LCA standard: EN15804+A2 (2019)
 Standard database: Worldwide - Ecoinvent v 3.6 Cut-Off
 Externally verified: Yes
 Issue date: 20-06-2022
 End of validity: 20-06-2027
 Verifier: Harry van Ewijk - SGS Search



Wavin offers double-walled cable conduits in several diameters and in both waterproof and non-waterproof versions. The corrugated outer wall ensures a high ring stiffness, while the smooth inner wall makes the pipes optimal for cable pulling.

This LCA was evaluated according to EN15804+A2. It was concluded that the LCA complies with this standard.

The LCA background information and project dossier have been registered in the online Ecochain application in the account Wavin - SE - Eskilstuna (2020). (☑ = module declared, MND = module not declared).

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
☑	☑	☑	MND	MND	MND	MND	MND	MND	MND	MND	MND	MND	☑	☑	☑	☑

Product stage

A1 Raw material supply A2 Transport A3 Manufacturing

Construction process stage

A4 Transport gate to site
 A5 Assembly / Construction installation process

Use stage

B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment
 B6 Operational energy use B7 Operational water use

End-of-Life stage

C1 De-construction demolition C2 Transport C3 Waste processing
 C4 Disposal

Benefits and loads beyond the system boundaries

D Reuse- Recovery- Recycling- potential

Environmental impacts and parameters

GWP-total = EF Climate Change [kg CO2 eq]; **GWP-f** = EF Climate change - Fossil [kg CO2 eq]; **GWP-b** = EF Climate Change - Biogenic [kg CO2 eq]; **GWP-luluc** = EF Climate Change - Land use and LU change [kg CO2 eq]; **ODP** = EF Ozone depletion [kg CFC11 eq]; **AP** = EF Acidification [mol H+ eq]; **EP-fw** = EF Eutrophication, freshwater [kg P eq]; **EP-m** = EF Eutrophication, marine [kg N eq]; **EP-T** = EF Eutrophication, terrestrial [mol N eq]; **POCP** = EF Photochemical ozone formation [kg NMVOC eq]; **ADP-mm** = EF Resource use, minerals and metals [kg Sb eq]; **ADP-f** = EF Resource use, fossils [MJ]; **WDP** = EF Water use [m3 depriv.]; **PM** = EF Particulate matter [disease inc.]; **IR** = EF Ionising radiation [kBq U-235 eq]; **ETP-fw** = EF Ecotoxicity, freshwater [CTUe]; **HTP-c** = EF Human toxicity, cancer [CTUh]; **HTP-nc** = EF Human toxicity, non-cancer [CTUh]; **SQP** = EF Land use [Pt]; **PERE** = Use of renewable primary energy excluding renewable primary energy resources used as raw materials [MJ]; **PERM** = Use of renewable primary energy resources used as raw materials [MJ]; **PERT** = Total use of renewable primary energy resources [MJ]; **PENRE** = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials [MJ]; **PENRM** = Use of non-renewable primary energy resources used as raw materials [MJ]; **PENRT** = Total use of non-renewable primary energy resources [MJ]; **PET** = Total energy [MJ]; **SM** = Use of secondary material [kg]; **RSF** = Use of renewable secondary fuels [MJ]; **NRSF** = Use of non-renewable secondary fuels [MJ]; **FW** = Use of net fresh water [m3]; **HWD** = Hazardous waste disposed [kg]; **NHWD** = Non-hazardous waste disposed [kg]; **RWD** = Radioactive waste disposed [kg]; **CRU** = Components for re-use [kg]; **MFR** = Materials for recycling [kg]; **MER** = Materials for energy recovery [kg]; **EE** = Exported energy [MJ]; **EET** = Exported energy thermic [MJ]; **EEE** = Exported energy electric [MJ]

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.17E+2	1.22E+1	5.06E+0	1.34E+2	1.89E+0	9.54E+1	1.04E+0	-9.50E+1	1.37E+2
GWP-f	kg CO2 eq	1.50E+2	1.22E+1	3.67E+0	1.66E+2	1.88E+0	6.15E+1	1.04E+0	-9.46E+1	1.36E+2
GWP-b	kg CO2 eq	-3.33E+1	-7.59E-4	9.66E-1	-3.23E+1	1.14E-3	3.39E+1	7.82E-4	-3.56E-1	1.26E+0
GWP-luluc	kg CO2 eq	6.63E-2	7.21E-3	4.27E-1	5.00E-1	6.67E-4	1.07E-2	1.52E-5	-2.63E-2	4.85E-1
ODP	kg CFC11 eq	4.60E-6	2.53E-6	4.16E-7	7.55E-6	4.34E-7	1.42E-6	2.23E-8	-4.63E-6	4.79E-6
AP	mol H+ eq	5.71E-1	2.95E-1	3.11E-2	8.97E-1	1.07E-2	6.12E-2	5.32E-4	-2.76E-1	6.94E-1
EP-fw	kg P eq	2.79E-3	7.33E-5	6.78E-5	2.93E-3	1.55E-5	3.09E-4	6.96E-7	-1.22E-3	2.03E-3
EP-m	kg N eq	1.01E-1	7.49E-2	9.22E-3	1.85E-1	3.84E-3	1.83E-2	3.74E-4	-5.21E-2	1.56E-1
EP-T	mol N eq	1.16E+0	8.32E-1	1.01E-1	2.09E+0	4.23E-2	2.02E-1	2.16E-3	-6.02E-1	1.74E+0
POCP	kg NMVOC eq	5.21E-1	2.18E-1	2.81E-2	7.66E-1	1.21E-2	6.29E-2	8.46E-4	-2.60E-1	5.82E-1
ADP-mm	kg Sb eq	2.09E-3	1.60E-4	1.10E-4	2.36E-3	4.87E-5	2.33E-4	5.36E-7	-6.18E-4	2.02E-3
ADP-f	MJ	5.12E+3	1.65E+2	3.65E+1	5.33E+3	2.89E+1	1.87E+2	1.63E+0	-2.83E+3	2.71E+3
WDP	m3 depriv.	1.18E+2	3.64E-1	2.35E+1	1.42E+2	8.87E-2	3.64E+0	8.14E-3	-5.50E+1	9.06E+1
PM	disease inc.	6.18E-6	6.04E-7	5.25E-7	7.31E-6	1.70E-7	9.85E-7	1.12E-8	-2.33E-6	6.14E-6
IR	kBq U-235 eq	3.80E+0	7.04E-1	1.08E-1	4.61E+0	1.26E-1	5.66E-1	7.57E-3	-1.74E+0	3.57E+0
ETP-fw	CTUe	1.04E+3	1.21E+2	1.02E+2	1.26E+3	2.35E+1	2.12E+2	1.43E+0	-5.49E+2	9.49E+2
HTP-c	CTUh	5.50E-8	6.43E-9	4.02E-9	6.54E-8	8.36E-10	2.75E-8	4.00E-11	-2.16E-8	7.22E-8
HTP-nc	CTUh	1.09E-6	1.12E-7	1.10E-7	1.31E-6	2.80E-8	3.23E-7	9.15E-10	-4.97E-7	1.16E-6
SQP	Pt	3.29E+3	6.50E+1	4.80E+0	3.36E+3	2.47E+1	1.49E+2	4.17E+0	-7.49E+2	2.79E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	5.50E+2	1.45E+0	2.30E+2	7.82E+2	4.15E-1	9.15E+0	6.40E-2	-1.74E+2	6.18E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	5.50E+2	1.45E+0	2.30E+2	7.82E+2	4.15E-1	9.15E+0	6.40E-2	-1.74E+2	6.18E+2
PENRE	MJ	5.50E+3	1.76E+2	3.87E+1	5.71E+3	3.07E+1	1.99E+2	1.73E+0	-3.05E+3	2.89E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	5.50E+3	1.76E+2	3.87E+1	5.71E+3	3.07E+1	1.99E+2	1.73E+0	-3.05E+3	2.89E+3
PET	MJ	6.05E+3	1.77E+2	2.69E+2	6.49E+3	3.11E+1	2.08E+2	1.79E+0	-3.23E+3	3.51E+3
SM	kg	0	0	0	0	0	0	0	0	0
RSF	MJ	0	0	0	0	0	0	0	0	0
NRSF	MJ	0	0	0	0	0	0	0	0	0
FW	m3	1.83E+0	1.27E-2	5.58E-1	2.40E+0	3.27E-3	1.10E-1	2.01E-3	-8.43E-1	1.68E+0

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	9.85E-4	2.45E-4	5.55E-5	1.29E-3	7.39E-5	3.07E-4	1.96E-6	-8.52E-4	8.17E-4
NHWD	kg	7.24E+0	3.94E+0	1.70E-1	1.14E+1	1.79E+0	9.69E+0	7.16E+0	-2.58E+0	2.74E+1
RWD	kg	3.47E-3	1.13E-3	1.54E-4	4.75E-3	1.97E-4	7.19E-4	1.06E-5	-1.62E-3	4.06E-3
CRU	kg	0	0	0	0	0	0	0	0	0
MFR	kg	0	0	0	0	0	0	0	0	0
MER	kg	0	0	0	0	0	0	0	0	0
EE	MJ	0	0	0	0	0	0	0	0	0
EET	MJ	0	0	0	0	0	0	0	0	0
EEE	MJ	0	0	0	0	0	0	0	0	0



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