

Environmental Profile

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

Ecochain v3.5.64



Product: 3064796 - PE Pipe Cable GN 110 L=6 SRN DVK
 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	8.22E+0	6.48E-1	2.71E-1	9.14E+0	1.01E-1	3.58E+0	5.57E-2	-5.26E+0	7.62E+0
GWP-f	kg CO2 eq	8.19E+0	6.48E-1	1.96E-1	9.03E+0	1.01E-1	3.59E+0	5.57E-2	-5.24E+0	7.53E+0
GWP-b	kg CO2 eq	3.15E-2	-4.18E-5	5.16E-2	8.31E-2	6.12E-5	-4.07E-3	4.18E-5	-1.89E-2	6.02E-2
GWP-luluc	kg CO2 eq	2.84E-3	3.82E-4	2.28E-2	2.60E-2	3.57E-5	5.70E-4	8.17E-7	-1.13E-3	2.55E-2
ODP	kg CFC11 eq	2.28E-7	1.34E-7	2.22E-8	3.84E-7	2.32E-8	7.48E-8	1.19E-9	-2.60E-7	2.23E-7
AP	mol H+ eq	3.06E-2	1.57E-2	1.66E-3	4.79E-2	5.74E-4	3.16E-3	2.85E-5	-1.42E-2	3.75E-2
EP-fw	kg P eq	1.52E-4	3.87E-6	3.62E-6	1.59E-4	8.29E-7	1.65E-5	3.74E-8	-6.39E-5	1.13E-4
EP-m	kg N eq	5.21E-3	3.98E-3	4.93E-4	9.68E-3	2.05E-4	9.26E-4	2.00E-5	-2.61E-3	8.22E-3
EP-T	mol N eq	5.90E-2	4.42E-2	5.40E-3	1.09E-1	2.26E-3	1.02E-2	1.16E-4	-2.91E-2	9.21E-2
POCP	kg NMVOC eq	2.76E-2	1.16E-2	1.50E-3	4.07E-2	6.47E-4	3.21E-3	4.52E-5	-1.35E-2	3.11E-2
ADP-mm	kg Sb eq	1.15E-4	8.44E-6	5.90E-6	1.30E-4	2.61E-6	1.24E-5	2.87E-8	-3.27E-5	1.12E-4
ADP-f	MJ	2.80E+2	8.75E+0	1.95E+0	2.91E+2	1.55E+0	9.91E+0	8.71E-2	-1.54E+2	1.48E+2
WDP	m3 depriv.	6.47E+0	1.92E-2	1.26E+0	7.75E+0	4.75E-3	1.94E-1	4.55E-4	-2.95E+0	5.00E+0
PM	disease inc.	2.57E-7	3.18E-8	2.80E-8	3.17E-7	9.09E-9	5.17E-8	5.98E-10	-1.12E-7	2.66E-7
IR	kBq U-235 eq	1.98E-1	3.72E-2	5.80E-3	2.41E-1	6.76E-3	2.99E-2	4.05E-4	-9.15E-2	1.87E-1
ETP-fw	CTUe	5.51E+1	6.39E+0	5.44E+0	6.69E+1	1.26E+0	1.13E+1	7.67E-2	-2.30E+1	5.66E+1
HTP-c	CTUh	2.88E-9	3.41E-10	2.15E-10	3.44E-9	4.47E-11	1.40E-9	2.16E-12	-1.06E-9	3.82E-9
HTP-nc	CTUh	6.03E-8	5.90E-9	5.85E-9	7.21E-8	1.50E-9	1.72E-8	4.90E-11	-1.86E-8	7.23E-8
SQP	Pt	1.27E+1	3.41E+0	2.56E-1	1.63E+1	1.32E+0	7.93E+0	2.23E-1	-4.91E+0	2.09E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	5.15E+0	7.66E-2	1.23E+1	1.75E+1	2.22E-2	4.89E-1	3.41E-3	-2.19E+0	1.58E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	5.15E+0	7.66E-2	1.23E+1	1.75E+1	2.22E-2	4.89E-1	3.41E-3	-2.19E+0	1.58E+1
PENRE	MJ	3.00E+2	9.29E+0	2.07E+0	3.12E+2	1.64E+0	1.06E+1	9.24E-2	-1.67E+2	1.57E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.00E+2	9.29E+0	2.07E+0	3.12E+2	1.64E+0	1.06E+1	9.24E-2	-1.67E+2	1.57E+2
PET	MJ	3.05E+2	9.36E+0	1.44E+1	3.29E+2	1.66E+0	1.10E+1	9.58E-2	-1.69E+2	1.73E+2
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	1.02E-1	6.68E-4	2.99E-2	1.32E-1	1.75E-4	5.75E-3	1.07E-4	-4.51E-2	9.30E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.60E-5	1.29E-5	2.97E-6	6.19E-5	3.95E-6	1.63E-5	1.05E-7	-5.10E-5	3.13E-5
NHWD	kg	3.62E-1	2.07E-1	9.10E-3	5.77E-1	9.58E-2	5.00E-1	3.83E-1	-1.27E-1	1.43E+0
RWD	kg	1.77E-4	5.97E-5	8.25E-6	2.45E-4	1.05E-5	3.79E-5	5.69E-7	-8.55E-5	2.08E-4
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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