

Environmental Profile

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

Ecochain v3.5.64



Product: 3064829 - PE Pipe Cable GN 110 L=50 SRN DVR
 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	6.39E+1	5.25E+0	2.20E+0	7.13E+1	8.15E-1	2.65E+1	4.50E-1	-4.12E+1	5.79E+1
GWP-f	kg CO2 eq	6.35E+1	5.24E+0	1.60E+0	7.03E+1	8.14E-1	2.65E+1	4.50E-1	-4.10E+1	5.71E+1
GWP-b	kg CO2 eq	3.93E-1	-3.51E-4	4.20E-1	8.13E-1	4.94E-4	-3.29E-2	3.38E-4	-1.82E-1	5.99E-1
GWP-luluc	kg CO2 eq	2.46E-2	3.10E-3	1.86E-1	2.13E-1	2.88E-4	4.58E-3	6.56E-6	-1.12E-2	2.07E-1
ODP	kg CFC11 eq	1.68E-6	1.08E-6	1.81E-7	2.94E-6	1.88E-7	5.98E-7	9.63E-9	-1.93E-6	1.81E-6
AP	mol H+ eq	2.38E-1	1.27E-1	1.35E-2	3.79E-1	4.64E-3	2.51E-2	2.30E-4	-1.16E-1	2.93E-1
EP-fw	kg P eq	1.33E-3	3.12E-5	2.95E-5	1.39E-3	6.70E-6	1.32E-4	3.01E-7	-6.14E-4	9.18E-4
EP-m	kg N eq	4.05E-2	3.23E-2	4.01E-3	7.67E-2	1.66E-3	7.30E-3	1.62E-4	-2.12E-2	6.47E-2
EP-T	mol N eq	4.57E-1	3.59E-1	4.40E-2	8.60E-1	1.83E-2	8.04E-2	9.33E-4	-2.35E-1	7.24E-1
POCP	kg NMVOC eq	2.33E-1	9.38E-2	1.22E-2	3.39E-1	5.23E-3	2.54E-2	3.66E-4	-1.18E-1	2.52E-1
ADP-mm	kg Sb eq	8.64E-4	6.79E-5	4.81E-5	9.80E-4	2.11E-5	9.95E-5	2.32E-7	-2.64E-4	8.37E-4
ADP-f	MJ	2.20E+3	7.07E+1	1.59E+1	2.29E+3	1.25E+1	7.95E+1	7.03E-1	-1.23E+3	1.16E+3
WDP	m3 depriv.	5.78E+1	1.55E-1	1.02E+1	6.81E+1	3.84E-2	1.56E+0	3.52E-3	-2.73E+1	4.24E+1
PM	disease inc.	1.93E-6	2.57E-7	2.28E-7	2.42E-6	7.35E-8	4.13E-7	4.83E-9	-8.96E-7	2.01E-6
IR	kBq U-235 eq	1.82E+0	3.01E-1	4.72E-2	2.17E+0	5.46E-2	2.40E-1	3.27E-3	-8.80E-1	1.59E+0
ETP-fw	CTUe	4.06E+2	5.16E+1	4.42E+1	5.02E+2	1.01E+1	9.04E+1	6.20E-1	-1.89E+2	4.15E+2
HTP-c	CTUh	2.08E-8	2.76E-9	1.75E-9	2.53E-8	3.61E-10	1.09E-8	1.73E-11	-8.24E-9	2.83E-8
HTP-nc	CTUh	4.61E-7	4.76E-8	4.76E-8	5.57E-7	1.21E-8	1.36E-7	3.95E-10	-1.65E-7	5.40E-7
SQP	Pt	9.50E+1	2.74E+1	2.09E+0	1.24E+2	1.07E+1	6.36E+1	1.80E+0	-4.21E+1	1.58E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	4.44E+1	6.18E-1	1.00E+2	1.45E+2	1.79E-1	3.93E+0	2.77E-2	-2.06E+1	1.29E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	4.44E+1	6.18E-1	1.00E+2	1.45E+2	1.79E-1	3.93E+0	2.77E-2	-2.06E+1	1.29E+2
PENRE	MJ	2.36E+3	7.51E+1	1.69E+1	2.46E+3	1.33E+1	8.47E+1	7.46E-1	-1.33E+3	1.23E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.36E+3	7.51E+1	1.69E+1	2.46E+3	1.33E+1	8.47E+1	7.46E-1	-1.33E+3	1.23E+3
PET	MJ	2.41E+3	7.57E+1	1.17E+2	2.60E+3	1.34E+1	8.86E+1	7.74E-1	-1.35E+3	1.36E+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	8.60E-1	5.38E-3	2.43E-1	1.11E+0	1.41E-3	4.59E-2	8.68E-4	-4.07E-1	7.49E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.34E-4	1.04E-4	2.42E-5	4.63E-4	3.20E-5	1.30E-4	8.47E-7	-3.72E-4	2.53E-4
NHWD	kg	2.73E+0	1.66E+0	7.41E-2	4.46E+0	7.75E-1	3.91E+0	3.10E+0	-1.07E+0	1.12E+1
RWD	kg	1.58E-3	4.82E-4	6.71E-5	2.13E-3	8.50E-5	3.04E-4	4.60E-6	-7.90E-4	1.74E-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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