Environmental Profile

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

Ecochain v3.5.64

Product:	3064798 - PE Pipe Cable YL 110 L=6 SRN DVK T
Unit:	1 piece
Manufacturer:	Wavin - SE - Eskilstuna

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.

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

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]

Statement of Confidentiality

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	8.28E+0	6.49E-1	2.71E-1	9.20E+0	1.01E-1	3.64E+0	5.59E-2	-5.28E+0	7.71E+0
GWP-f	kg CO2 eq	8.25E+0	6.48E-1	1.96E-1	9.09E+0	1.01E-1	3.64E+0	5.59E-2	-5.27E+0	7.62E+0
GWP-b	kg CO2 eq	3.05E-2	-4.16E-5	5.16E-2	8.21E-2	6.13E-5	-4.06E-3	4.20E-5	-1.89E-2	5.93E-2
GWP-luluc	kg CO2 eq	2.89E-3	3.82E-4	2.28E-2	2.61E-2	3.57E-5	5.70E-4	8.21E-7	-1.13E-3	2.56E-2
ODP	kg CFC11 eq	2.41E-7	1.34E-7	2.22E-8	3.98E-7	2.33E-8	7.50E-8	1.20E-9	-2.63E-7	2.35E-7
AP	mol H+ eq	3.09E-2	1.57E-2	1.66E-3	4.82E-2	5.75E-4	3.17E-3	2.87E-5	-1.42E-2	3.78E-2
EP-fw	kg P eq	1.54E-4	3.87E-6	3.62E-6	1.61E-4	8.31E-7	1.65E-5	3.76E-8	-6.40E-5	1.14E-4
EP-m	kg N eq	5.26E-3	3.98E-3	4.93E-4	9.73E-3	2.06E-4	9.29E-4	2.03E-5	-2.62E-3	8.27E-3
EP-T	mol N eq	5.96E-2	4.42E-2	5.40E-3	1.09E-1	2.27E-3	1.02E-2	1.16E-4	-2.91E-2	9.27E-2
POCP	kg NMVOC eq	2.79E-2	1.16E-2	1.50E-3	4.10E-2	6.49E-4	3.22E-3	4.55E-5	-1.36E-2	3.13E-2
ADP-mm	kg Sb eq	1.37E-4	8.45E-6	5.90E-6	1.51E-4	2.61E-6	1.24E-5	2.89E-8	-3.34E-5	1.33E-4
ADP-f	MJ	2.81E+2	8.75E+0	1.95E+0	2.92E+2	1.55E+0	9.92E+0	8.75E-2	-1.55E+2	1.49E+2
WDP	m3 depriv.	6.50E+0	1.92E-2	1.26E+0	7.78E+0	4.76E-3	1.95E-1	4.57E-4	-2.95E+0	5.03E+0
PM	disease inc.	2.61E-7	3.19E-8	2.80E-8	3.20E-7	9.12E-9	5.17E-8	6.01E-10	-1.13E-7	2.69E-7
IR	kBq U-235 eq	2.03E-1	3.73E-2	5.80E-3	2.46E-1	6.78E-3	3.00E-2	4.07E-4	-9.18E-2	1.91E-1
ETP-fw	CTUe	5.63E+1	6.39E+0	5.44E+0	6.82E+1	1.26E+0	1.14E+1	7.77E-2	-2.31E+1	5.78E+1
HTP-c	CTUh	2.91E-9	3.41E-10	2.15E-10	3.47E-9	4.48E-11	1.40E-9	2.17E-12	-1.06E-9	3.85E-9
HTP-nc	CTUh	6.10E-8	5.91E-9	5.85E-9	7.28E-8	1.50E-9	1.72E-8	4.94E-11	-1.86E-8	7.30E-8
SQP	Pt	1.30E+1	3.42E+0	2.56E-1	1.67E+1	1.33E+0	7.93E+0	2.24E-1	-4.93E+0	2.12E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	5.21E+0	7.66E-2	1.23E+1	1.76E+1	2.22E-2	4.89E-1	3.43E-3	-2.19E+0	1.59E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	5.21E+0	7.66E-2	1.23E+1	1.76E+1	2.22E-2	4.89E-1	3.43E-3	-2.19E+0	1.59E+1
PENRE	MJ	3.02E+2	9.29E+0	2.07E+0	3.13E+2	1.65E+0	1.06E+1	9.29E-2	-1.67E+2	1.58E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.02E+2	9.29E+0	2.07E+0	3.13E+2	1.65E+0	1.06E+1	9.29E-2	-1.67E+2	1.58E+2
PET	MJ	3.07E+2	9.37E+0	1.44E+1	3.31E+2	1.67E+0	1.11E+1	9.63E-2	-1.69E+2	1.74E+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	6.69E-4	2.99E-2	1.33E-1	1.75E-4	5.82E-3	1.08E-4	-4.52E-2	9.39E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.69E-5	1.29E-5	2.97E-6	6.28E-5	3.97E-6	1.63E-5	1.06E-7	-5.14E-5	3.18E-5
NHWD	kg	3.67E-1	2.07E-1	9.10E-3	5.83E-1	9.61E-2	5.02E-1	3.85E-1	-1.27E-1	1.44E+0
RWD	kg	1.83E-4	5.97E-5	8.25E-6	2.51E-4	1.05E-5	3.80E-5	5.72E-7	-8.59E-5	2.14E-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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