Environmental Profile

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

Ecochain v3.5.64

Product:	3064802 - PE Pipe Cable YL/YL 110 L=6 SRN DVK T-H
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	9.79E+0	7.79E-1	3.24E-1	1.09E+1	1.21E-1	4.28E+0	6.68E-2	-6.28E+0	9.09E+0
GWP-f	kg CO2 eq	9.76E+0	7.78E-1	2.35E-1	1.08E+1	1.21E-1	4.28E+0	6.69E-2	-6.25E+0	8.99E+0
GWP-b	kg CO2 eq	3.85E-2	-5.06E-5	6.17E-2	1.00E-1	7.33E-5	-4.85E-3	5.02E-5	-2.26E-2	7.29E-2
GWP-luluc	kg CO2 eq	3.34E-3	4.59E-4	2.73E-2	3.11E-2	4.27E-5	6.81E-4	9.75E-7	-1.36E-3	3.04E-2
ODP	kg CFC11 eq	2.78E-7	1.61E-7	2.66E-8	4.65E-7	2.78E-8	8.94E-8	1.43E-9	-3.10E-7	2.74E-7
AP	mol H+ eq	3.63E-2	1.88E-2	1.99E-3	5.71E-2	6.88E-4	3.78E-3	3.42E-5	-1.69E-2	4.46E-2
EP-fw	kg P eq	1.79E-4	4.64E-6	4.33E-6	1.88E-4	9.93E-7	1.97E-5	4.47E-8	-7.63E-5	1.32E-4
EP-m	kg N eq	6.18E-3	4.78E-3	5.89E-4	1.16E-2	2.46E-4	1.11E-3	2.42E-5	-3.12E-3	9.81E-3
EP-T	mol N eq	7.00E-2	5.31E-2	6.46E-3	1.30E-1	2.71E-3	1.22E-2	1.39E-4	-3.47E-2	1.10E-1
POCP	kg NMVOC eq	3.30E-2	1.39E-2	1.80E-3	4.87E-2	7.75E-4	3.83E-3	5.43E-5	-1.62E-2	3.72E-2
ADP-mm	kg Sb eq	1.52E-4	1.01E-5	7.06E-6	1.69E-4	3.12E-6	1.48E-5	3.44E-8	-3.97E-5	1.48E-4
ADP-f	MJ	3.35E+2	1.05E+1	2.33E+0	3.48E+2	1.85E+0	1.18E+1	1.05E-1	-1.84E+2	1.77E+2
WDP	m3 depriv.	7.71E+0	2.31E-2	1.50E+0	9.24E+0	5.69E-3	2.32E-1	5.23E-4	-3.53E+0	5.95E+0
PM	disease inc.	3.05E-7	3.82E-8	3.35E-8	3.77E-7	1.09E-8	6.17E-8	7.18E-10	-1.34E-7	3.16E-7
IR	kBq U-235 eq	2.38E-1	4.47E-2	6.93E-3	2.90E-1	8.10E-3	3.57E-2	4.86E-4	-1.10E-1	2.25E-1
ETP-fw	CTUe	6.44E+1	7.67E+0	6.50E+0	7.85E+1	1.50E+0	1.36E+1	9.26E-2	-2.74E+1	6.63E+1
HTP-c	CTUh	3.32E-9	4.09E-10	2.57E-10	3.99E-9	5.35E-11	1.65E-9	2.57E-12	-1.26E-9	4.42E-9
HTP-nc	CTUh	7.02E-8	7.09E-9	7.00E-9	8.43E-8	1.79E-9	2.05E-8	5.89E-11	-2.32E-8	8.35E-8
SQP	Pt	1.49E+1	4.10E+0	3.07E-1	1.93E+1	1.59E+0	9.47E+0	2.68E-1	-5.87E+0	2.48E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	6.10E+0	9.19E-2	1.47E+1	2.09E+1	2.66E-2	5.84E-1	4.11E-3	-2.62E+0	1.89E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	6.10E+0	9.19E-2	1.47E+1	2.09E+1	2.66E-2	5.84E-1	4.11E-3	-2.62E+0	1.89E+1
PENRE	MJ	3.60E+2	1.12E+1	2.48E+0	3.73E+2	1.97E+0	1.26E+1	1.11E-1	-1.99E+2	1.89E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.60E+2	1.12E+1	2.48E+0	3.73E+2	1.97E+0	1.26E+1	1.11E-1	-1.99E+2	1.89E+2
PET	MJ	3.66E+2	1.12E+1	1.72E+1	3.94E+2	1.99E+0	1.32E+1	1.15E-1	-2.02E+2	2.08E+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	1.20E-1	8.02E-4	3.57E-2	1.57E-1	2.10E-4	6.93E-3	1.29E-4	-5.40E-2	1.10E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.38E-5	1.55E-5	3.55E-6	7.29E-5	4.74E-6	1.94E-5	1.26E-7	-6.02E-5	3.70E-5
NHWD	kg	4.20E-1	2.48E-1	1.09E-2	6.78E-1	1.15E-1	5.96E-1	4.60E-1	-1.51E-1	1.70E+0
RWD	kg	2.15E-4	7.17E-5	9.87E-6	2.96E-4	1.26E-5	4.53E-5	6.83E-7	-1.03E-4	2.52E-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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