Environmental Profile

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

Ecochain v3.5.64

Product:	3064818 - PE Pipe Cable YL 50 L=50 SRN DVR
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	2.32E+1	1.85E+0	7.82E-1	2.58E+1	2.86E-1	9.55E+0	1.58E-1	-1.47E+1	2.11E+1
GWP-f	kg CO2 eq	2.31E+1	1.84E+0	5.67E-1	2.55E+1	2.86E-1	9.56E+0	1.58E-1	-1.46E+1	2.09E+1
GWP-b	kg CO2 eq	1.36E-1	-1.21E-4	1.49E-1	2.85E-1	1.74E-4	-1.17E-2	1.19E-4	-6.30E-2	2.11E-1
GWP-luluc	kg CO2 eq	9.07E-3	1.09E-3	6.59E-2	7.61E-2	1.01E-4	1.62E-3	2.30E-6	-3.85E-3	7.40E-2
ODP	kg CFC11 eq	6.23E-7	3.82E-7	6.42E-8	1.07E-6	6.59E-8	2.12E-7	3.38E-9	-6.91E-7	6.60E-7
AP	mol H+ eq	8.69E-2	4.47E-2	4.80E-3	1.36E-1	1.63E-3	8.92E-3	8.08E-5	-4.13E-2	1.06E-1
EP-fw	kg P eq	4.93E-4	1.10E-5	1.05E-5	5.14E-4	2.35E-6	4.68E-5	1.06E-7	-2.19E-4	3.44E-4
EP-m	kg N eq	1.48E-2	1.13E-2	1.42E-3	2.75E-2	5.83E-4	2.60E-3	5.68E-5	-7.54E-3	2.32E-2
EP-T	mol N eq	1.67E-1	1.26E-1	1.56E-2	3.08E-1	6.42E-3	2.86E-2	3.28E-4	-8.38E-2	2.60E-1
POCP	kg NMVOC eq	8.41E-2	3.30E-2	4.34E-3	1.21E-1	1.84E-3	9.02E-3	1.28E-4	-4.21E-2	9.04E-2
ADP-mm	kg Sb eq	3.10E-4	2.40E-5	1.71E-5	3.51E-4	7.40E-6	3.53E-5	8.13E-8	-9.27E-5	3.01E-4
ADP-f	MJ	7.87E+2	2.49E+1	5.64E+0	8.17E+2	4.39E+0	2.81E+1	2.47E-1	-4.34E+2	4.16E+2
WDP	m3 depriv.	2.06E+1	5.46E-2	3.63E+0	2.43E+1	1.35E-2	5.49E-1	1.24E-3	-9.63E+0	1.53E+1
PM	disease inc.	7.17E-7	9.05E-8	8.11E-8	8.88E-7	2.58E-8	1.46E-7	1.70E-9	-3.21E-7	7.41E-7
IR	kBq U-235 eq	6.64E-1	1.06E-1	1.68E-2	7.87E-1	1.92E-2	8.49E-2	1.15E-3	-3.08E-1	5.85E-1
ETP-fw	CTUe	1.57E+2	1.82E+1	1.57E+1	1.91E+2	3.56E+0	3.22E+1	2.18E-1	-6.98E+1	1.57E+2
HTP-c	CTUh	9.49E-9	9.71E-10	6.21E-10	1.11E-8	1.27E-10	3.86E-9	6.08E-12	-2.91E-9	1.22E-8
HTP-nc	CTUh	1.89E-7	1.68E-8	1.69E-8	2.22E-7	4.25E-9	4.83E-8	1.39E-10	-3.78E-8	2.37E-7
SQP	Pt	3.56E+1	9.69E+0	7.41E-1	4.60E+1	3.75E+0	2.25E+1	6.33E-1	-1.50E+1	5.79E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.63E+1	2.18E-1	3.55E+1	5.21E+1	6.30E-2	1.39E+0	9.71E-3	-7.22E+0	4.63E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.63E+1	2.18E-1	3.55E+1	5.21E+1	6.30E-2	1.39E+0	9.71E-3	-7.22E+0	4.63E+1
PENRE	MJ	8.44E+2	2.64E+1	5.99E+0	8.76E+2	4.66E+0	2.99E+1	2.62E-1	-4.68E+2	4.43E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	8.44E+2	2.64E+1	5.99E+0	8.76E+2	4.66E+0	2.99E+1	2.62E-1	-4.68E+2	4.43E+2
PET	MJ	8.60E+2	2.67E+1	4.15E+1	9.28E+2	4.72E+0	3.13E+1	2.72E-1	-4.75E+2	4.89E+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	3.12E-1	1.90E-3	8.63E-2	4.00E-1	4.97E-4	1.62E-2	3.05E-4	-1.43E-1	2.74E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.34E-4	3.67E-5	8.58E-6	1.79E-4	1.12E-5	4.60E-5	2.97E-7	-1.45E-4	9.19E-5
NHWD	kg	1.08E+0	5.85E-1	2.63E-2	1.69E+0	2.72E-1	1.39E+0	1.09E+0	-3.87E-1	4.05E+0
RWD	kg	5.78E-4	1.70E-4	2.38E-5	7.72E-4	2.98E-5	1.08E-4	1.61E-6	-2.77E-4	6.33E-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

Ecochain Technologies BV
H.J.E. Wenckebachweg 123, 1096 AM Amsterdam, The Netherlands
https://www.ecochain.com
+31 20 3035 777