Environmental Profile

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

Ecochain v3.5.64

Product:	3064823 - PE Pipe Cable YL 75 L=50 SRN DVR THR
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	4.17E+1	3.34E+0	1.41E+0	4.65E+1	5.19E-1	1.74E+1	2.87E-1	-2.65E+1	3.81E+1
GWP-f	kg CO2 eq	4.15E+1	3.34E+0	1.02E+0	4.58E+1	5.18E-1	1.74E+1	2.87E-1	-2.64E+1	3.76E+1
GWP-b	kg CO2 eq	2.43E-1	-2.21E-4	2.68E-1	5.11E-1	3.15E-4	-2.10E-2	2.15E-4	-1.16E-1	3.75E-1
GWP-luluc	kg CO2 eq	1.61E-2	1.97E-3	1.19E-1	1.37E-1	1.84E-4	2.92E-3	4.18E-6	-7.08E-3	1.33E-1
ODP	kg CFC11 eq	1.09E-6	6.92E-7	1.16E-7	1.90E-6	1.19E-7	3.83E-7	6.13E-9	-1.25E-6	1.16E-6
AP	mol H+ eq	1.56E-1	8.11E-2	8.64E-3	2.45E-1	2.95E-3	1.61E-2	1.47E-4	-7.45E-2	1.90E-1
EP-fw	kg P eq	8.67E-4	1.99E-5	1.88E-5	9.06E-4	4.27E-6	8.45E-5	1.92E-7	-3.93E-4	6.01E-4
EP-m	kg N eq	2.65E-2	2.06E-2	2.56E-3	4.96E-2	1.06E-3	4.69E-3	1.03E-4	-1.36E-2	4.18E-2
EP-T	mol N eq	2.99E-1	2.28E-1	2.81E-2	5.55E-1	1.16E-2	5.17E-2	5.94E-4	-1.51E-1	4.68E-1
POCP	kg NMVOC eq	1.51E-1	5.98E-2	7.81E-3	2.19E-1	3.33E-3	1.63E-2	2.33E-4	-7.56E-2	1.63E-1
ADP-mm	kg Sb eq	5.55E-4	4.34E-5	3.07E-5	6.29E-4	1.34E-5	6.36E-5	1.47E-7	-1.68E-4	5.38E-4
ADP-f	MJ	1.42E+3	4.51E+1	1.01E+1	1.48E+3	7.96E+0	5.08E+1	4.48E-1	-7.87E+2	7.50E+2
WDP	m3 depriv.	3.74E+1	9.89E-2	6.53E+0	4.40E+1	2.44E-2	9.95E-1	2.24E-3	-1.74E+1	2.76E+1
PM	disease inc.	1.27E-6	1.64E-7	1.46E-7	1.58E-6	4.68E-8	2.64E-7	3.08E-9	-5.75E-7	1.32E-6
IR	kBq U-235 eq	1.18E+0	1.92E-1	3.02E-2	1.40E+0	3.48E-2	1.53E-1	2.08E-3	-5.60E-1	1.03E+0
ETP-fw	CTUe	2.70E+2	3.29E+1	2.83E+1	3.31E+2	6.46E+0	5.82E+1	3.95E-1	-1.22E+2	2.74E+2
HTP-c	CTUh	1.46E-8	1.76E-9	1.12E-9	1.75E-8	2.30E-10	7.00E-9	1.10E-11	-5.27E-9	1.94E-8
HTP-nc	CTUh	3.11E-7	3.04E-8	3.04E-8	3.72E-7	7.70E-9	8.73E-8	2.52E-10	-9.38E-8	3.73E-7
SQP	Pt	6.30E+1	1.75E+1	1.33E+0	8.19E+1	6.81E+0	4.07E+1	1.15E+0	-2.70E+1	1.04E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.90E+1	3.94E-1	6.40E+1	9.34E+1	1.14E-1	2.51E+0	1.76E-2	-1.31E+1	8.29E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.90E+1	3.94E-1	6.40E+1	9.34E+1	1.14E-1	2.51E+0	1.76E-2	-1.31E+1	8.29E+1
PENRE	MJ	1.53E+3	4.79E+1	1.08E+1	1.58E+3	8.45E+0	5.41E+1	4.75E-1	-8.49E+2	7.99E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.53E+3	4.79E+1	1.08E+1	1.58E+3	8.45E+0	5.41E+1	4.75E-1	-8.49E+2	7.99E+2
PET	MJ	1.56E+3	4.83E+1	7.47E+1	1.68E+3	8.56E+0	5.66E+1	4.93E-1	-8.62E+2	8.82E+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	5.63E-1	3.44E-3	1.55E-1	7.21E-1	9.01E-4	2.93E-2	5.53E-4	-2.60E-1	4.92E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.23E-4	6.65E-5	1.54E-5	3.05E-4	2.04E-5	8.32E-5	5.39E-7	-2.48E-4	1.61E-4
NHWD	kg	1.82E+0	1.06E+0	4.73E-2	2.93E+0	4.93E-1	2.52E+0	1.97E+0	-6.90E-1	7.22E+0
RWD	kg	1.02E-3	3.08E-4	4.29E-5	1.38E-3	5.41E-5	1.94E-4	2.93E-6	-5.04E-4	1.12E-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

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