

# Environmental Profile

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

Ecochain v3.5.64



Product: 3065038 - PE Pipe Cable BK/YL 110 L=250 SRS  
 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]

## Statement of Confidentiality

This document and supporting material contain confidential and proprietary business information of Wavin - SE - Eskilstuna. These materials may be printed or (photo) copied or otherwise used only with the written consent of Wavin - SE - Eskilstuna.

# Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.09E+3	9.17E+1	3.86E+1	1.22E+3	1.41E+1	4.60E+2	7.83E+0	-7.09E+2	9.93E+2
GWP-f	kg CO2 eq	1.08E+3	9.17E+1	2.80E+1	1.20E+3	1.41E+1	4.61E+2	7.83E+0	-7.07E+2	9.80E+2
GWP-b	kg CO2 eq	5.69E+0	-6.22E-3	7.36E+0	1.30E+1	8.58E-3	-5.66E-1	5.88E-3	-2.68E+0	9.82E+0
GWP-luluc	kg CO2 eq	3.37E-1	5.42E-2	3.25E+0	3.65E+0	5.00E-3	7.94E-2	1.13E-4	-1.61E-1	3.57E+0
ODP	kg CFC11 eq	2.80E-5	1.90E-5	3.17E-6	5.02E-5	3.26E-6	1.03E-5	1.67E-7	-3.39E-5	3.00E-5
AP	mol H+ eq	3.93E+0	2.23E+0	2.37E-1	6.40E+0	8.05E-2	4.35E-1	3.99E-3	-1.96E+0	4.96E+0
EP-fw	kg P eq	1.86E-2	5.44E-4	5.16E-4	1.97E-2	1.16E-4	2.29E-3	5.18E-6	-8.80E-3	1.33E-2
EP-m	kg N eq	6.72E-1	5.65E-1	7.02E-2	1.31E+0	2.88E-2	1.26E-1	2.82E-3	-3.58E-1	1.11E+0
EP-T	mol N eq	7.58E+0	6.28E+0	7.71E-1	1.46E+1	3.18E-1	1.39E+0	1.62E-2	-3.98E+0	1.24E+1
POCP	kg NMVOC eq	3.63E+0	1.64E+0	2.14E-1	5.48E+0	9.08E-2	4.40E-1	6.35E-3	-1.86E+0	4.17E+0
ADP-mm	kg Sb eq	1.37E-2	1.19E-3	8.42E-4	1.57E-2	3.66E-4	1.72E-3	4.00E-6	-4.57E-3	1.32E-2
ADP-f	MJ	3.81E+4	1.24E+3	2.78E+2	3.96E+4	2.17E+2	1.38E+3	1.22E+1	-2.12E+4	2.00E+4
WDP	m3 depriv.	8.66E+2	2.70E+0	1.79E+2	1.05E+3	6.66E-1	2.71E+1	5.64E-2	-4.12E+2	6.64E+2
PM	disease inc.	3.28E-5	4.48E-6	4.00E-6	4.12E-5	1.28E-6	7.15E-6	8.38E-8	-1.55E-5	3.43E-5
IR	kBq U-235 eq	2.56E+1	5.26E+0	8.27E-1	3.17E+1	9.48E-1	4.15E+0	5.69E-2	-1.28E+1	2.40E+1
ETP-fw	CTUe	6.27E+3	9.02E+2	7.75E+2	7.95E+3	1.76E+2	1.56E+3	1.08E+1	-3.08E+3	6.62E+3
HTP-c	CTUh	3.06E-7	4.83E-8	3.06E-8	3.85E-7	6.27E-9	1.86E-7	2.97E-10	-1.46E-7	4.31E-7
HTP-nc	CTUh	6.91E-6	8.32E-7	8.35E-7	8.57E-6	2.10E-7	2.35E-6	6.84E-9	-3.28E-6	7.86E-6
SQP	Pt	1.46E+3	4.78E+2	3.66E+1	1.98E+3	1.86E+2	1.10E+3	3.13E+1	-6.72E+2	2.62E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	6.44E+2	1.08E+1	1.75E+3	2.41E+3	3.11E+0	6.80E+1	4.83E-1	-3.07E+2	2.17E+3
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	6.44E+2	1.08E+1	1.75E+3	2.41E+3	3.11E+0	6.80E+1	4.83E-1	-3.07E+2	2.17E+3
PENRE	MJ	4.09E+4	1.31E+3	2.95E+2	4.25E+4	2.30E+2	1.47E+3	1.29E+1	-2.29E+4	2.13E+4
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.09E+4	1.31E+3	2.95E+2	4.25E+4	2.30E+2	1.47E+3	1.29E+1	-2.29E+4	2.13E+4
PET	MJ	4.15E+4	1.32E+3	2.05E+3	4.49E+4	2.33E+2	1.54E+3	1.34E+1	-2.32E+4	2.35E+4
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	1.31E+1	9.40E-2	4.26E+0	1.75E+1	2.46E-2	7.96E-1	1.51E-2	-6.29E+0	1.20E+1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.37E-3	1.82E-3	4.23E-4	7.61E-3	5.55E-4	2.24E-3	1.47E-5	-6.23E-3	4.19E-3
NHWD	kg	4.09E+1	2.88E+1	1.30E+0	7.10E+1	1.34E+1	6.77E+1	5.38E+1	-1.73E+1	1.89E+2
RWD	kg	2.29E-2	8.44E-3	1.18E-3	3.25E-2	1.48E-3	5.26E-3	7.98E-5	-1.19E-2	2.74E-2
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