

# Environmental Profile

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

Ecochain v3.5.64



Product: 3065906 - PE Pipe Cable BK 75 L=50 SRE-P VA  
 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

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# Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.51E+2	1.27E+1	5.10E+0	1.69E+2	1.97E+0	6.39E+1	1.09E+0	-9.84E+1	1.38E+2
GWP-f	kg CO2 eq	1.51E+2	1.26E+1	3.69E+0	1.67E+2	1.97E+0	6.39E+1	1.09E+0	-9.81E+1	1.36E+2
GWP-b	kg CO2 eq	7.89E-1	-8.52E-4	9.72E-1	1.76E+0	1.19E-3	-7.86E-2	8.16E-4	-3.72E-1	1.31E+0
GWP-luluc	kg CO2 eq	4.76E-2	7.48E-3	4.30E-1	4.85E-1	6.96E-4	1.10E-2	1.58E-5	-2.23E-2	4.74E-1
ODP	kg CFC11 eq	4.02E-6	2.62E-6	4.19E-7	7.05E-6	4.53E-7	1.44E-6	2.33E-8	-4.69E-6	4.28E-6
AP	mol H+ eq	5.52E-1	3.07E-1	3.13E-2	8.91E-1	1.12E-2	6.04E-2	5.56E-4	-2.72E-1	6.91E-1
EP-fw	kg P eq	2.61E-3	7.52E-5	6.82E-5	2.75E-3	1.62E-5	3.19E-4	7.26E-7	-1.22E-3	1.86E-3
EP-m	kg N eq	9.38E-2	7.79E-2	9.27E-3	1.81E-1	4.01E-3	1.76E-2	3.91E-4	-4.97E-2	1.53E-1
EP-T	mol N eq	1.06E+0	8.65E-1	1.02E-1	2.03E+0	4.42E-2	1.93E-1	2.25E-3	-5.52E-1	1.72E+0
POCP	kg NMVOC eq	5.04E-1	2.27E-1	2.83E-2	7.58E-1	1.26E-2	6.11E-2	8.83E-4	-2.58E-1	5.75E-1
ADP-mm	kg Sb eq	2.04E-3	1.64E-4	1.11E-4	2.32E-3	5.09E-5	2.39E-4	5.59E-7	-6.35E-4	1.97E-3
ADP-f	MJ	5.26E+3	1.71E+2	3.67E+1	5.47E+3	3.02E+1	1.92E+2	1.70E+0	-2.94E+3	2.75E+3
WDP	m3 depriv.	1.20E+2	3.74E-1	2.37E+1	1.44E+2	9.26E-2	3.76E+0	8.50E-3	-5.72E+1	9.11E+1
PM	disease inc.	4.60E-6	6.19E-7	5.28E-7	5.74E-6	1.77E-7	9.94E-7	1.17E-8	-2.15E-6	4.77E-6
IR	kBq U-235 eq	3.57E+0	7.26E-1	1.09E-1	4.40E+0	1.32E-1	5.77E-1	7.90E-3	-1.77E+0	3.34E+0
ETP-fw	CTUe	9.03E+2	1.24E+2	1.02E+2	1.13E+3	2.45E+1	2.17E+2	1.50E+0	-4.27E+2	9.46E+2
HTP-c	CTUh	4.33E-8	6.66E-9	4.04E-9	5.40E-8	8.72E-10	2.62E-8	4.18E-11	-2.03E-8	6.08E-8
HTP-nc	CTUh	9.81E-7	1.15E-7	1.10E-7	1.21E-6	2.92E-8	3.27E-7	9.55E-10	-4.55E-7	1.11E-6
SQP	Pt	2.06E+2	6.61E+1	4.83E+0	2.77E+2	2.58E+1	1.53E+2	4.36E+0	-9.33E+1	3.67E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	8.98E+1	1.49E+0	2.32E+2	3.23E+2	4.33E-1	9.45E+0	6.68E-2	-4.26E+1	2.90E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	8.98E+1	1.49E+0	2.32E+2	3.23E+2	4.33E-1	9.45E+0	6.68E-2	-4.26E+1	2.90E+2
PENRE	MJ	5.65E+3	1.81E+2	3.90E+1	5.87E+3	3.20E+1	2.04E+2	1.80E+0	-3.18E+3	2.93E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	5.65E+3	1.81E+2	3.90E+1	5.87E+3	3.20E+1	2.04E+2	1.80E+0	-3.18E+3	2.93E+3
PET	MJ	5.74E+3	1.83E+2	2.71E+2	6.19E+3	3.25E+1	2.14E+2	1.87E+0	-3.22E+3	3.22E+3
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	1.83E+0	1.30E-2	5.62E-1	2.41E+0	3.42E-3	1.11E-1	2.10E-3	-8.74E-1	1.65E+0

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	7.67E-4	2.51E-4	5.59E-5	1.07E-3	7.72E-5	3.12E-4	2.04E-6	-8.61E-4	6.04E-4
NHWD	kg	5.84E+0	3.99E+0	1.71E-1	1.00E+1	1.87E+0	9.42E+0	7.48E+0	-2.40E+0	2.64E+1
RWD	kg	3.19E-3	1.16E-3	1.55E-4	4.51E-3	2.05E-4	7.31E-4	1.11E-5	-1.65E-3	3.81E-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