

# Environmental Profile

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

Ecochain v3.5.64



Product: 3064629 - PE Pipe Cable BK 32 L=6 SRE-P BE S  
 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	3.46E+0	2.77E-1	1.15E-1	3.85E+0	4.48E-2	1.52E+0	2.48E-2	-2.26E+0	3.17E+0
GWP-f	kg CO2 eq	3.50E+0	2.77E-1	8.36E-2	3.86E+0	4.48E-2	1.46E+0	2.48E-2	-2.26E+0	3.13E+0
GWP-b	kg CO2 eq	-4.07E-2	-1.82E-5	2.20E-2	-1.87E-2	2.72E-5	5.71E-2	1.86E-5	-8.34E-3	3.01E-2
GWP-luluc	kg CO2 eq	1.16E-3	1.64E-4	9.72E-3	1.10E-2	1.58E-5	2.52E-4	3.61E-7	-5.26E-4	1.08E-2
ODP	kg CFC11 eq	9.71E-8	5.73E-8	9.47E-9	1.64E-7	1.03E-8	3.30E-8	5.30E-10	-1.08E-7	9.97E-8
AP	mol H+ eq	1.29E-2	6.71E-3	7.08E-4	2.04E-2	2.55E-4	1.39E-3	1.27E-5	-6.30E-3	1.57E-2
EP-fw	kg P eq	6.29E-5	1.65E-6	1.54E-6	6.61E-5	3.68E-7	7.29E-6	1.65E-8	-2.87E-5	4.52E-5
EP-m	kg N eq	2.21E-3	1.70E-3	2.10E-4	4.12E-3	9.13E-5	4.04E-4	8.89E-6	-1.16E-3	3.47E-3
EP-T	mol N eq	2.50E-2	1.89E-2	2.30E-3	4.62E-2	1.01E-3	4.44E-3	5.13E-5	-1.29E-2	3.88E-2
POCP	kg NMVOC eq	1.17E-2	4.95E-3	6.40E-4	1.73E-2	2.87E-4	1.40E-3	2.01E-5	-6.00E-3	1.30E-2
ADP-mm	kg Sb eq	4.83E-5	3.60E-6	2.52E-6	5.44E-5	1.16E-6	5.49E-6	1.27E-8	-1.46E-5	4.65E-5
ADP-f	MJ	1.21E+2	3.74E+0	8.31E-1	1.25E+2	6.87E-1	4.38E+0	3.87E-2	-6.73E+1	6.29E+1
WDP	m3 depriv.	2.77E+0	8.20E-3	5.35E-1	3.31E+0	2.11E-3	8.58E-2	1.94E-4	-1.31E+0	2.09E+0
PM	disease inc.	1.10E-7	1.36E-8	1.20E-8	1.35E-7	4.04E-9	2.28E-8	2.66E-10	-5.08E-8	1.11E-7
IR	kBq U-235 eq	8.43E-2	1.59E-2	2.47E-3	1.03E-1	3.00E-3	1.32E-2	1.80E-4	-4.06E-2	7.85E-2
ETP-fw	CTUe	2.25E+1	2.73E+0	2.32E+0	2.75E+1	5.58E-1	4.99E+0	3.41E-2	-1.04E+1	2.27E+1
HTP-c	CTUh	1.28E-9	1.46E-10	9.15E-11	1.52E-9	1.99E-11	6.00E-10	9.52E-13	-4.85E-10	1.65E-9
HTP-nc	CTUh	2.58E-8	2.52E-9	2.49E-9	3.09E-8	6.65E-10	7.50E-9	2.17E-11	-8.05E-9	3.10E-8
SQP	Pt	9.82E+0	1.46E+0	1.09E-1	1.14E+1	5.88E-1	3.51E+0	9.92E-2	-6.27E+0	9.30E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.83E+0	3.27E-2	5.24E+0	8.10E+0	9.86E-3	2.16E-1	1.52E-3	-1.59E+0	6.74E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.83E+0	3.27E-2	5.24E+0	8.10E+0	9.86E-3	2.16E-1	1.52E-3	-1.59E+0	6.74E+0
PENRE	MJ	1.29E+2	3.97E+0	8.82E-1	1.34E+2	7.30E-1	4.67E+0	4.10E-2	-7.26E+1	6.70E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.29E+2	3.97E+0	8.82E-1	1.34E+2	7.30E-1	4.67E+0	4.10E-2	-7.26E+1	6.70E+1
PET	MJ	1.32E+2	4.00E+0	6.12E+0	1.42E+2	7.40E-1	4.89E+0	4.26E-2	-7.42E+1	7.38E+1
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	4.26E-2	2.85E-4	1.27E-2	5.56E-2	7.78E-5	2.53E-3	4.77E-5	-2.00E-2	3.82E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.99E-5	5.52E-6	1.27E-6	2.67E-5	1.76E-6	7.16E-6	4.66E-8	-2.15E-5	1.42E-5
NHWD	kg	1.50E-1	8.79E-2	3.88E-3	2.42E-1	4.26E-2	2.16E-1	1.70E-1	-5.82E-2	6.12E-1
RWD	kg	7.56E-5	2.55E-5	3.52E-6	1.05E-4	4.67E-6	1.68E-5	2.53E-7	-3.79E-5	8.85E-5
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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