

# Environmental Profile

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

Ecochain v3.5.64



Product: 3065016 - PE Pipe Cable BK/YL 110 L=50 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

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# Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	2.08E+2	1.84E+1	7.71E+0	2.34E+2	2.83E+0	1.05E+2	1.57E+0	-1.42E+2	2.01E+2
GWP-f	kg CO2 eq	2.20E+2	1.84E+1	5.59E+0	2.44E+2	2.83E+0	9.27E+1	1.57E+0	-1.42E+2	1.99E+2
GWP-b	kg CO2 eq	-1.15E+1	-1.21E-3	1.47E+0	-1.01E+1	1.72E-3	1.26E+1	1.18E-3	-5.36E-1	1.94E+0
GWP-luluc	kg CO2 eq	7.57E-2	1.09E-2	6.50E-1	7.37E-1	1.00E-3	1.59E-2	2.25E-5	-3.40E-2	7.20E-1
ODP	kg CFC11 eq	5.91E-6	3.81E-6	6.33E-7	1.04E-5	6.52E-7	2.08E-6	3.34E-8	-6.86E-6	6.26E-6
AP	mol H+ eq	8.05E-1	4.46E-1	4.74E-2	1.30E+0	1.61E-2	8.82E-2	7.98E-4	-3.97E-1	1.01E+0
EP-fw	kg P eq	3.85E-3	1.10E-4	1.03E-4	4.06E-3	2.33E-5	4.60E-4	1.04E-6	-1.78E-3	2.77E-3
EP-m	kg N eq	1.39E-1	1.13E-1	1.40E-2	2.66E-1	5.76E-3	2.59E-2	5.64E-4	-7.33E-2	2.25E-1
EP-T	mol N eq	1.58E+0	1.26E+0	1.54E-1	2.99E+0	6.35E-2	2.85E-1	3.24E-3	-8.24E-1	2.51E+0
POCP	kg NMVOC eq	7.42E-1	3.29E-1	4.28E-2	1.11E+0	1.82E-2	8.97E-2	1.27E-3	-3.76E-1	8.47E-1
ADP-mm	kg Sb eq	2.78E-3	2.39E-4	1.68E-4	3.19E-3	7.32E-5	3.46E-4	8.01E-7	-9.18E-4	2.69E-3
ADP-f	MJ	7.67E+3	2.49E+2	5.56E+1	7.97E+3	4.34E+1	2.77E+2	2.44E+0	-4.25E+3	4.04E+3
WDP	m3 depriv.	1.74E+2	5.45E-1	3.58E+1	2.11E+2	1.33E-1	5.43E+0	1.13E-2	-8.24E+1	1.34E+2
PM	disease inc.	7.24E-6	9.03E-7	7.99E-7	8.94E-6	2.55E-7	1.44E-6	1.68E-8	-3.20E-6	7.46E-6
IR	kBq U-235 eq	5.28E+0	1.06E+0	1.65E-1	6.50E+0	1.90E-1	8.35E-1	1.14E-2	-2.57E+0	4.97E+0
ETP-fw	CTUe	1.33E+3	1.81E+2	1.55E+2	1.66E+3	3.52E+1	3.14E+2	2.15E+0	-6.68E+2	1.35E+3
HTP-c	CTUh	6.64E-8	9.69E-9	6.12E-9	8.22E-8	1.25E-9	3.81E-8	5.93E-11	-3.01E-8	9.15E-8
HTP-nc	CTUh	1.44E-6	1.68E-7	1.67E-7	1.77E-6	4.20E-8	4.73E-7	1.37E-9	-6.78E-7	1.61E-6
SQP	Pt	1.45E+3	9.67E+1	7.31E+0	1.55E+3	3.71E+1	2.21E+2	6.26E+0	-3.80E+2	1.44E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.03E+2	2.17E+0	3.50E+2	6.55E+2	6.23E-1	1.36E+1	9.65E-2	-1.11E+2	5.59E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.03E+2	2.17E+0	3.50E+2	6.55E+2	6.23E-1	1.36E+1	9.65E-2	-1.11E+2	5.59E+2
PENRE	MJ	8.23E+3	2.64E+2	5.90E+1	8.55E+3	4.61E+1	2.95E+2	2.59E+0	-4.58E+3	4.31E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	8.23E+3	2.64E+2	5.90E+1	8.55E+3	4.61E+1	2.95E+2	2.59E+0	-4.58E+3	4.31E+3
PET	MJ	8.53E+3	2.66E+2	4.09E+2	9.20E+3	4.67E+1	3.09E+2	2.69E+0	-4.69E+3	4.87E+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	2.66E+0	1.89E-2	8.51E-1	3.53E+0	4.91E-3	1.61E-1	3.02E-3	-1.26E+0	2.43E+0

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.18E-3	3.67E-4	8.46E-5	1.63E-3	1.11E-4	4.52E-4	2.93E-6	-1.26E-3	9.31E-4
NHWD	kg	8.83E+0	5.84E+0	2.59E-1	1.49E+1	2.69E+0	1.38E+1	1.08E+1	-3.56E+0	3.86E+1
RWD	kg	4.75E-3	1.70E-3	2.35E-4	6.68E-3	2.95E-4	1.06E-3	1.60E-5	-2.40E-3	5.65E-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



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