

# Environmental Profile

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

Ecochain v3.5.64



Product: 3065013 - PE Pipe Cable BK/YL 90 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

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# Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	7.00E+2	6.32E+1	2.60E+1	7.89E+2	9.70E+0	3.72E+2	5.37E+0	-4.87E+2	6.89E+2
GWP-f	kg CO2 eq	7.52E+2	6.32E+1	1.89E+1	8.34E+2	9.69E+0	3.16E+2	5.37E+0	-4.86E+2	6.80E+2
GWP-b	kg CO2 eq	-5.26E+1	-4.11E-3	4.96E+0	-4.76E+1	5.88E-3	5.60E+1	4.03E-3	-1.84E+0	6.59E+0
GWP-luluc	kg CO2 eq	2.65E-1	3.73E-2	2.19E+0	2.50E+0	3.43E-3	5.46E-2	7.71E-5	-1.18E-1	2.44E+0
ODP	kg CFC11 eq	2.05E-5	1.31E-5	2.14E-6	3.57E-5	2.23E-6	7.16E-6	1.15E-7	-2.35E-5	2.17E-5
AP	mol H+ eq	2.77E+0	1.53E+0	1.60E-1	4.45E+0	5.52E-2	3.03E-1	2.73E-3	-1.37E+0	3.45E+0
EP-fw	kg P eq	1.32E-2	3.76E-4	3.48E-4	1.40E-2	7.97E-5	1.58E-3	3.55E-6	-6.12E-3	9.50E-3
EP-m	kg N eq	4.79E-1	3.88E-1	4.74E-2	9.15E-1	1.97E-2	8.91E-2	1.93E-3	-2.53E-1	7.73E-1
EP-T	mol N eq	5.43E+0	4.31E+0	5.20E-1	1.03E+1	2.18E-1	9.81E-1	1.11E-2	-2.85E+0	8.63E+0
POCP	kg NMVOC eq	2.55E+0	1.13E+0	1.44E-1	3.82E+0	6.22E-2	3.09E-1	4.35E-3	-1.29E+0	2.90E+0
ADP-mm	kg Sb eq	9.51E-3	8.21E-4	5.68E-4	1.09E-2	2.51E-4	1.19E-3	2.74E-6	-3.15E-3	9.19E-3
ADP-f	MJ	2.62E+4	8.52E+2	1.87E+2	2.73E+4	1.49E+2	9.49E+2	8.36E+0	-1.45E+4	1.39E+4
WDP	m3 depriv.	5.98E+2	1.87E+0	1.21E+2	7.20E+2	4.56E-1	1.86E+1	3.87E-2	-2.82E+2	4.57E+2
PM	disease inc.	2.54E-5	3.10E-6	2.70E-6	3.12E-5	8.75E-7	4.96E-6	5.75E-8	-1.11E-5	2.60E-5
IR	kBq U-235 eq	1.82E+1	3.63E+0	5.57E-1	2.24E+1	6.50E-1	2.87E+0	3.90E-2	-8.83E+0	1.71E+1
ETP-fw	CTUe	4.59E+3	6.22E+2	5.23E+2	5.73E+3	1.21E+2	1.08E+3	7.37E+0	-2.34E+3	4.60E+3
HTP-c	CTUh	2.32E-7	3.32E-8	2.06E-8	2.86E-7	4.30E-9	1.31E-7	2.03E-10	-1.04E-7	3.18E-7
HTP-nc	CTUh	4.97E-6	5.75E-7	5.63E-7	6.11E-6	1.44E-7	1.62E-6	4.69E-9	-2.35E-6	5.54E-6
SQP	Pt	6.14E+3	3.32E+2	2.46E+1	6.49E+3	1.27E+2	7.58E+2	2.15E+1	-1.56E+3	5.85E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.21E+3	7.46E+0	1.18E+3	2.40E+3	2.13E+0	4.68E+1	3.31E-1	-4.31E+2	2.02E+3
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.21E+3	7.46E+0	1.18E+3	2.40E+3	2.13E+0	4.68E+1	3.31E-1	-4.31E+2	2.02E+3
PENRE	MJ	2.82E+4	9.05E+2	1.99E+2	2.93E+4	1.58E+2	1.01E+3	8.87E+0	-1.57E+4	1.48E+4
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.82E+4	9.05E+2	1.99E+2	2.93E+4	1.58E+2	1.01E+3	8.87E+0	-1.57E+4	1.48E+4
PET	MJ	2.94E+4	9.13E+2	1.38E+3	3.17E+4	1.60E+2	1.06E+3	9.20E+0	-1.61E+4	1.68E+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	9.11E+0	6.50E-2	2.87E+0	1.20E+1	1.68E-2	5.53E-1	1.03E-2	-4.32E+0	8.30E+0

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	4.08E-3	1.26E-3	2.85E-4	5.63E-3	3.80E-4	1.55E-3	1.00E-5	-4.32E-3	3.25E-3
NHWD	kg	3.07E+1	2.01E+1	8.75E-1	5.16E+1	9.22E+0	4.75E+1	3.68E+1	-1.23E+1	1.33E+2
RWD	kg	1.64E-2	5.81E-3	7.93E-4	2.30E-2	1.01E-3	3.63E-3	5.47E-5	-8.22E-3	1.95E-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



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