

# Environmental Profile

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

Ecochain v3.5.64



Product: 3064184 - PE Pipe Cable BK/YL 110 SDR17 L=6 Drill  
 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	2.75E+1	2.24E+0	9.27E-1	3.06E+1	3.46E-1	1.18E+1	1.91E-1	-1.77E+1	2.53E+1
GWP-f	kg CO2 eq	2.73E+1	2.24E+0	6.72E-1	3.03E+1	3.45E-1	1.18E+1	1.91E-1	-1.76E+1	2.49E+1
GWP-b	kg CO2 eq	1.29E-1	-1.50E-4	1.77E-1	3.06E-1	2.10E-4	-1.39E-2	1.44E-4	-6.53E-2	2.27E-1
GWP-luluc	kg CO2 eq	8.97E-3	1.33E-3	7.81E-2	8.84E-2	1.22E-4	1.95E-3	2.75E-6	-3.92E-3	8.66E-2
ODP	kg CFC11 eq	7.29E-7	4.64E-7	7.61E-8	1.27E-6	7.96E-8	2.54E-7	4.08E-9	-8.62E-7	7.45E-7
AP	mol H+ eq	9.99E-2	5.45E-2	5.69E-3	1.60E-1	1.97E-3	1.07E-2	9.74E-5	-4.82E-2	1.25E-1
EP-fw	kg P eq	4.87E-4	1.33E-5	1.24E-5	5.13E-4	2.84E-6	5.62E-5	1.27E-7	-2.17E-4	3.55E-4
EP-m	kg N eq	1.71E-2	1.38E-2	1.69E-3	3.26E-2	7.04E-4	3.13E-3	6.89E-5	-8.84E-3	2.77E-2
EP-T	mol N eq	1.93E-1	1.53E-1	1.85E-2	3.65E-1	7.76E-3	3.44E-2	3.95E-4	-9.84E-2	3.09E-1
POCP	kg NMVOC eq	9.18E-2	4.02E-2	5.14E-3	1.37E-1	2.22E-3	1.09E-2	1.55E-4	-4.58E-2	1.05E-1
ADP-mm	kg Sb eq	3.40E-4	2.91E-5	2.02E-5	3.89E-4	8.93E-6	4.22E-5	9.78E-8	-1.12E-4	3.29E-4
ADP-f	MJ	9.51E+2	3.03E+1	6.68E+0	9.88E+2	5.30E+0	3.38E+1	2.98E-1	-5.24E+2	5.03E+2
WDP	m3 depriv.	2.15E+1	6.63E-2	4.30E+0	2.59E+1	1.63E-2	6.63E-1	1.38E-3	-1.01E+1	1.65E+1
PM	disease inc.	8.34E-7	1.10E-7	9.61E-8	1.04E-6	3.12E-8	1.76E-7	2.05E-9	-3.81E-7	8.68E-7
IR	kBq U-235 eq	6.57E-1	1.29E-1	1.99E-2	8.06E-1	2.32E-2	1.02E-1	1.39E-3	-3.14E-1	6.19E-1
ETP-fw	CTUe	1.67E+2	2.21E+1	1.86E+1	2.08E+2	4.30E+0	3.84E+1	2.63E-1	-7.68E+1	1.74E+2
HTP-c	CTUh	8.33E-9	1.18E-9	7.35E-10	1.03E-8	1.53E-10	4.61E-9	7.25E-12	-3.60E-9	1.14E-8
HTP-nc	CTUh	1.83E-7	2.04E-8	2.00E-8	2.23E-7	5.13E-9	5.80E-8	1.67E-10	-7.41E-8	2.12E-7
SQP	Pt	3.86E+1	1.17E+1	8.78E-1	5.13E+1	4.53E+0	2.70E+1	7.65E-1	-1.66E+1	6.69E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.67E+1	2.64E-1	4.21E+1	5.91E+1	7.60E-2	1.67E+0	1.18E-2	-7.50E+0	5.33E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.67E+1	2.64E-1	4.21E+1	5.91E+1	7.60E-2	1.67E+0	1.18E-2	-7.50E+0	5.33E+1
PENRE	MJ	1.02E+3	3.21E+1	7.09E+0	1.06E+3	5.63E+0	3.60E+1	3.16E-1	-5.65E+2	5.36E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.02E+3	3.21E+1	7.09E+0	1.06E+3	5.63E+0	3.60E+1	3.16E-1	-5.65E+2	5.36E+2
PET	MJ	1.04E+3	3.24E+1	4.92E+1	1.12E+3	5.70E+0	3.77E+1	3.28E-1	-5.73E+2	5.89E+2
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	3.30E-1	2.30E-3	1.02E-1	4.35E-1	6.00E-4	1.96E-2	3.68E-4	-1.54E-1	3.01E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.47E-4	4.46E-5	1.02E-5	2.02E-4	1.36E-5	5.52E-5	3.58E-7	-1.62E-4	1.09E-4
NHWD	kg	1.08E+0	7.09E-1	3.12E-2	1.82E+0	3.28E-1	1.68E+0	1.31E+0	-4.27E-1	4.72E+0
RWD	kg	5.87E-4	2.07E-4	2.83E-5	8.21E-4	3.60E-5	1.29E-4	1.95E-6	-2.92E-4	6.96E-4
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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