

Environmental Profile

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

Ecochain v3.5.64



Product: 3064569 - PE Pipe Cable BK/YL 90 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

This document and supporting material contain confidential and proprietary business information of Wavin - SE - Eskilstuna. These materials may be printed or (photo) copied or otherwise used only with the written consent of Wavin - SE - Eskilstuna.

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.85E+1	1.51E+0	6.24E-1	2.07E+1	2.32E-1	8.36E+0	1.29E-1	-1.20E+1	1.74E+1
GWP-f	kg CO2 eq	1.88E+1	1.51E+0	4.53E-1	2.07E+1	2.32E-1	8.08E+0	1.29E-1	-1.20E+1	1.72E+1
GWP-b	kg CO2 eq	-2.08E-1	-9.90E-5	1.19E-1	-8.91E-2	1.41E-4	2.82E-1	9.65E-5	-4.37E-2	1.49E-1
GWP-luluc	kg CO2 eq	6.49E-3	8.92E-4	5.26E-2	6.00E-2	8.21E-5	1.31E-3	1.85E-6	-2.67E-3	5.87E-2
ODP	kg CFC11 eq	5.14E-7	3.13E-7	5.13E-8	8.78E-7	5.35E-8	1.72E-7	2.74E-9	-5.92E-7	5.14E-7
AP	mol H+ eq	6.90E-2	3.66E-2	3.83E-3	1.09E-1	1.32E-3	7.27E-3	6.55E-5	-3.27E-2	8.54E-2
EP-fw	kg P eq	3.43E-4	9.00E-6	8.36E-6	3.60E-4	1.91E-6	3.79E-5	8.50E-8	-1.47E-4	2.53E-4
EP-m	kg N eq	1.19E-2	9.29E-3	1.14E-3	2.23E-2	4.73E-4	2.13E-3	4.63E-5	-6.02E-3	1.89E-2
EP-T	mol N eq	1.34E-1	1.03E-1	1.25E-2	2.50E-1	5.21E-3	2.34E-2	2.66E-4	-6.72E-2	2.11E-1
POCP	kg NMVOC eq	6.33E-2	2.70E-2	3.46E-3	9.38E-2	1.49E-3	7.39E-3	1.04E-4	-3.11E-2	7.16E-2
ADP-mm	kg Sb eq	2.33E-4	1.96E-5	1.36E-5	2.66E-4	6.00E-6	2.85E-5	6.57E-8	-7.53E-5	2.25E-4
ADP-f	MJ	6.47E+2	2.04E+1	4.50E+0	6.72E+2	3.56E+0	2.28E+1	2.00E-1	-3.54E+2	3.44E+2
WDP	m3 depriv.	1.46E+1	4.48E-2	2.90E+0	1.76E+1	1.09E-2	4.47E-1	9.26E-4	-6.79E+0	1.12E+1
PM	disease inc.	5.89E-7	7.42E-8	6.47E-8	7.28E-7	2.09E-8	1.19E-7	1.38E-9	-2.60E-7	6.09E-7
IR	kBq U-235 eq	4.58E-1	8.68E-2	1.34E-2	5.58E-1	1.56E-2	6.88E-2	9.33E-4	-2.11E-1	4.32E-1
ETP-fw	CTUe	1.20E+2	1.49E+1	1.25E+1	1.47E+2	2.89E+0	2.60E+1	1.77E-1	-5.37E+1	1.22E+2
HTP-c	CTUh	6.22E-9	7.95E-10	4.95E-10	7.51E-9	1.03E-10	3.14E-9	4.87E-12	-2.45E-9	8.30E-9
HTP-nc	CTUh	1.31E-7	1.38E-8	1.35E-8	1.58E-7	3.45E-9	3.93E-8	1.12E-10	-4.63E-8	1.55E-7
SQP	Pt	5.36E+1	7.94E+0	5.91E-1	6.22E+1	3.05E+0	1.82E+1	5.14E-1	-1.69E+1	6.71E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.56E+1	1.78E-1	2.84E+1	4.41E+1	5.11E-2	1.12E+0	7.92E-3	-6.18E+0	3.91E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.56E+1	1.78E-1	2.84E+1	4.41E+1	5.11E-2	1.12E+0	7.92E-3	-6.18E+0	3.91E+1
PENRE	MJ	6.94E+2	2.17E+1	4.78E+0	7.21E+2	3.78E+0	2.43E+1	2.12E-1	-3.82E+2	3.67E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	6.94E+2	2.17E+1	4.78E+0	7.21E+2	3.78E+0	2.43E+1	2.12E-1	-3.82E+2	3.67E+2
PET	MJ	7.10E+2	2.18E+1	3.31E+1	7.65E+2	3.83E+0	2.54E+1	2.20E-1	-3.88E+2	4.06E+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	2.26E-1	1.56E-3	6.89E-2	2.97E-1	4.03E-4	1.32E-2	2.48E-4	-1.04E-1	2.06E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.08E-4	3.01E-5	6.85E-6	1.45E-4	9.11E-6	3.73E-5	2.40E-7	-1.14E-4	7.78E-5
NHWD	kg	7.82E-1	4.80E-1	2.10E-2	1.28E+0	2.21E-1	1.15E+0	8.82E-1	-2.93E-1	3.24E+0
RWD	kg	4.09E-4	1.39E-4	1.90E-5	5.67E-4	2.42E-5	8.73E-5	1.31E-6	-1.98E-4	4.83E-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



Ecochain Technologies BV
H.J.E. Wenckebachweg 123, 1096 AM Amsterdam, The Netherlands
<https://www.ecochain.com>
+31 20 3035 777