

Environmental Profile

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

Ecochain v3.5.64



Product: 3065011 - PE Pipe Cable BK/YL 75 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]

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	9.69E+1	8.43E+0	3.62E+0	1.09E+2	1.30E+0	4.71E+1	7.18E-1	-6.54E+1	9.27E+1
GWP-f	kg CO2 eq	1.01E+2	8.43E+0	2.63E+0	1.12E+2	1.30E+0	4.27E+1	7.18E-1	-6.52E+1	9.15E+1
GWP-b	kg CO2 eq	-3.86E+0	-5.57E-4	6.91E-1	-3.17E+0	7.87E-4	4.31E+0	5.39E-4	-2.46E-1	9.01E-1
GWP-luluc	kg CO2 eq	3.42E-2	4.98E-3	3.05E-1	3.45E-1	4.58E-4	7.29E-3	1.03E-5	-1.54E-2	3.37E-1
ODP	kg CFC11 eq	2.70E-6	1.74E-6	2.98E-7	4.74E-6	2.99E-7	9.54E-7	1.53E-8	-3.16E-6	2.85E-6
AP	mol H+ eq	3.69E-1	2.04E-1	2.22E-2	5.96E-1	7.38E-3	4.03E-2	3.65E-4	-1.82E-1	4.62E-1
EP-fw	kg P eq	1.77E-3	5.02E-5	4.85E-5	1.87E-3	1.07E-5	2.11E-4	4.75E-7	-8.14E-4	1.27E-3
EP-m	kg N eq	6.36E-2	5.18E-2	6.59E-3	1.22E-1	2.64E-3	1.18E-2	2.58E-4	-3.34E-2	1.03E-1
EP-T	mol N eq	7.20E-1	5.76E-1	7.23E-2	1.37E+0	2.91E-2	1.30E-1	1.48E-3	-3.75E-1	1.15E+0
POCP	kg NMVOC eq	3.40E-1	1.51E-1	2.01E-2	5.11E-1	8.32E-3	4.10E-2	5.81E-4	-1.72E-1	3.89E-1
ADP-mm	kg Sb eq	1.28E-3	1.09E-4	7.90E-5	1.47E-3	3.35E-5	1.58E-4	3.67E-7	-4.20E-4	1.24E-3
ADP-f	MJ	3.52E+3	1.14E+2	2.61E+1	3.66E+3	1.99E+1	1.27E+2	1.12E+0	-1.95E+3	1.86E+3
WDP	m3 depriv.	8.00E+1	2.49E-1	1.68E+1	9.71E+1	6.10E-2	2.49E+0	5.17E-3	-3.78E+1	6.19E+1
PM	disease inc.	3.26E-6	4.13E-7	3.75E-7	4.05E-6	1.17E-7	6.60E-7	7.68E-9	-1.45E-6	3.38E-6
IR	kBq U-235 eq	2.42E+0	4.84E-1	7.76E-2	2.98E+0	8.69E-2	3.82E-1	5.21E-3	-1.18E+0	2.28E+0
ETP-fw	CTUe	6.08E+2	8.30E+1	7.28E+1	7.63E+2	1.61E+1	1.44E+2	9.86E-1	-3.00E+2	6.24E+2
HTP-c	CTUh	3.00E-8	4.44E-9	2.87E-9	3.74E-8	5.75E-10	1.74E-8	2.72E-11	-1.37E-8	4.16E-8
HTP-nc	CTUh	6.58E-7	7.66E-8	7.84E-8	8.13E-7	1.92E-8	2.17E-7	6.27E-10	-3.08E-7	7.41E-7
SQP	Pt	5.34E+2	4.42E+1	3.43E+0	5.82E+2	1.70E+1	1.01E+2	2.87E+0	-1.46E+2	5.57E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.19E+2	9.94E-1	1.65E+2	2.85E+2	2.85E-1	6.24E+0	4.42E-2	-4.52E+1	2.46E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.19E+2	9.94E-1	1.65E+2	2.85E+2	2.85E-1	6.24E+0	4.42E-2	-4.52E+1	2.46E+2
PENRE	MJ	3.78E+3	1.21E+2	2.77E+1	3.92E+3	2.11E+1	1.35E+2	1.19E+0	-2.10E+3	1.98E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	3.78E+3	1.21E+2	2.77E+1	3.92E+3	2.11E+1	1.35E+2	1.19E+0	-2.10E+3	1.98E+3
PET	MJ	3.90E+3	1.22E+2	1.92E+2	4.21E+3	2.14E+1	1.41E+2	1.23E+0	-2.15E+3	2.23E+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	1.22E+0	8.67E-3	4.00E-1	1.63E+0	2.25E-3	7.36E-2	1.38E-3	-5.78E-1	1.13E+0

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.37E-4	1.68E-4	3.97E-5	7.44E-4	5.08E-5	2.07E-4	1.34E-6	-5.80E-4	4.23E-4
NHWD	kg	4.02E+0	2.67E+0	1.22E-1	6.82E+0	1.23E+0	6.32E+0	4.93E+0	-1.62E+0	1.77E+1
RWD	kg	2.17E-3	7.76E-4	1.10E-4	3.06E-3	1.35E-4	4.85E-4	7.31E-6	-1.10E-3	2.59E-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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