

Environmental Profile

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

Ecochain v3.5.64



Product: 3064810 - PE Pipe Cable YL 160 L=6 SRN DVK T
 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	1.63E+1	1.15E+0	4.76E-1	1.80E+1	1.94E-1	7.21E+0	1.09E-1	-9.91E+0	1.56E+1
GWP-f	kg CO2 eq	1.63E+1	1.15E+0	3.45E-1	1.78E+1	1.94E-1	7.21E+0	1.09E-1	-9.88E+0	1.54E+1
GWP-b	kg CO2 eq	2.94E-2	-6.75E-5	9.07E-2	1.20E-1	1.18E-4	-7.56E-3	8.28E-5	-3.47E-2	7.80E-2
GWP-luluc	kg CO2 eq	6.45E-3	6.76E-4	4.01E-2	4.72E-2	6.86E-5	1.07E-3	1.62E-6	-2.14E-3	4.62E-2
ODP	kg CFC11 eq	7.22E-7	2.38E-7	3.90E-8	9.99E-7	4.47E-8	1.41E-7	2.35E-9	-5.01E-7	6.87E-7
AP	mol H+ eq	6.31E-2	2.76E-2	2.92E-3	9.37E-2	1.10E-3	6.00E-3	5.64E-5	-2.67E-2	7.41E-2
EP-fw	kg P eq	3.27E-4	6.92E-6	6.36E-6	3.40E-4	1.60E-6	3.10E-5	7.40E-8	-1.20E-4	2.53E-4
EP-m	kg N eq	1.06E-2	7.01E-3	8.65E-4	1.85E-2	3.95E-4	1.76E-3	4.32E-5	-4.91E-3	1.58E-2
EP-T	mol N eq	1.21E-1	7.79E-2	9.50E-3	2.08E-1	4.36E-3	1.93E-2	2.29E-4	-5.47E-2	1.77E-1
POCP	kg NMVOC eq	5.56E-2	2.04E-2	2.64E-3	7.86E-2	1.25E-3	6.07E-3	8.92E-5	-2.54E-2	6.06E-2
ADP-mm	kg Sb eq	6.33E-4	1.51E-5	1.04E-5	6.59E-4	5.02E-6	2.33E-5	5.68E-8	-7.50E-5	6.12E-4
ADP-f	MJ	5.46E+2	1.56E+1	3.43E+0	5.65E+2	2.98E+0	1.86E+1	1.72E-1	-2.90E+2	2.96E+2
WDP	m3 depriv.	1.25E+1	3.45E-2	2.21E+0	1.47E+1	9.14E-3	3.75E-1	8.87E-4	-5.53E+0	9.57E+0
PM	disease inc.	5.50E-7	5.71E-8	4.93E-8	6.57E-7	1.75E-8	9.68E-8	1.18E-9	-2.12E-7	5.60E-7
IR	kBq U-235 eq	4.85E-1	6.62E-2	1.02E-2	5.61E-1	1.30E-2	5.62E-2	8.02E-4	-1.75E-1	4.57E-1
ETP-fw	CTUe	1.27E+2	1.14E+1	9.55E+0	1.48E+2	2.42E+0	2.28E+1	1.63E-1	-4.37E+1	1.30E+2
HTP-c	CTUh	5.90E-9	6.04E-10	3.77E-10	6.88E-9	8.60E-11	2.55E-9	4.27E-12	-2.00E-9	7.52E-9
HTP-nc	CTUh	1.25E-7	1.06E-8	1.03E-8	1.46E-7	2.88E-9	3.24E-8	9.95E-11	-3.55E-8	1.46E-7
SQP	Pt	3.12E+1	6.17E+0	4.50E-1	3.78E+1	2.55E+0	1.49E+1	4.41E-1	-9.40E+0	4.62E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.13E+1	1.37E-1	2.16E+1	3.30E+1	4.27E-2	9.21E-1	6.82E-3	-4.13E+0	2.98E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.13E+1	1.37E-1	2.16E+1	3.30E+1	4.27E-2	9.21E-1	6.82E-3	-4.13E+0	2.98E+1
PENRE	MJ	5.85E+2	1.65E+1	3.64E+0	6.05E+2	3.16E+0	1.99E+1	1.83E-1	-3.13E+2	3.15E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	5.85E+2	1.65E+1	3.64E+0	6.05E+2	3.16E+0	1.99E+1	1.83E-1	-3.13E+2	3.15E+2
PET	MJ	5.97E+2	1.67E+1	2.52E+1	6.38E+2	3.20E+0	2.08E+1	1.89E-1	-3.18E+2	3.45E+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	2.02E-1	1.20E-3	5.24E-2	2.56E-1	3.37E-4	1.20E-2	2.12E-4	-8.49E-2	1.84E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.21E-4	2.32E-5	5.22E-6	1.49E-4	7.61E-6	3.11E-5	2.07E-7	-9.67E-5	9.17E-5
NHWD	kg	7.61E-1	3.75E-1	1.60E-2	1.15E+0	1.84E-1	9.35E-1	7.57E-1	-2.40E-1	2.79E+0
RWD	kg	4.77E-4	1.06E-4	1.45E-5	5.97E-4	2.02E-5	7.12E-5	1.12E-6	-1.65E-4	5.25E-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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