

Environmental Profile

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

Ecochain v3.5.64



Product: 3064807 - PE Pipe Cable YL 160 L=6 SRN DVK
 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	1.42E+1	1.14E+0	4.76E-1	1.59E+1	1.83E-1	5.93E+0	1.01E-1	-9.18E+0	1.29E+1
GWP-f	kg CO2 eq	1.42E+1	1.14E+0	3.45E-1	1.56E+1	1.83E-1	5.94E+0	1.01E-1	-9.15E+0	1.27E+1
GWP-b	kg CO2 eq	7.41E-2	-7.33E-5	9.07E-2	1.65E-1	1.11E-4	-7.38E-3	7.58E-5	-3.41E-2	1.23E-1
GWP-luluc	kg CO2 eq	4.61E-3	6.72E-4	4.01E-2	4.54E-2	6.47E-5	1.03E-3	1.48E-6	-2.04E-3	4.44E-2
ODP	kg CFC11 eq	3.93E-7	2.36E-7	3.90E-8	6.67E-7	4.21E-8	1.34E-7	2.16E-9	-4.35E-7	4.11E-7
AP	mol H+ eq	5.24E-2	2.75E-2	2.92E-3	8.29E-2	1.04E-3	5.64E-3	5.17E-5	-2.54E-2	6.42E-2
EP-fw	kg P eq	2.53E-4	6.79E-6	6.36E-6	2.66E-4	1.50E-6	2.97E-5	6.78E-8	-1.15E-4	1.82E-4
EP-m	kg N eq	8.89E-3	6.99E-3	8.65E-4	1.67E-2	3.72E-4	1.64E-3	3.62E-5	-4.64E-3	1.41E-2
EP-T	mol N eq	1.01E-1	7.76E-2	9.50E-3	1.88E-1	4.10E-3	1.80E-2	2.10E-4	-5.17E-2	1.59E-1
POCP	kg NMVOC eq	4.74E-2	2.03E-2	2.64E-3	7.04E-2	1.17E-3	5.70E-3	8.20E-5	-2.42E-2	5.31E-2
ADP-mm	kg Sb eq	2.00E-4	1.48E-5	1.04E-5	2.25E-4	4.73E-6	2.23E-5	5.21E-8	-5.90E-5	1.94E-4
ADP-f	MJ	4.89E+2	1.54E+1	3.43E+0	5.08E+2	2.80E+0	1.79E+1	1.58E-1	-2.74E+2	2.55E+2
WDP	m3 depriv.	1.12E+1	3.38E-2	2.21E+0	1.35E+1	8.61E-3	3.50E-1	8.21E-4	-5.32E+0	8.51E+0
PM	disease inc.	4.40E-7	5.60E-8	4.93E-8	5.45E-7	1.65E-8	9.27E-8	1.08E-9	-2.03E-7	4.53E-7
IR	kBq U-235 eq	3.41E-1	6.54E-2	1.02E-2	4.16E-1	1.23E-2	5.39E-2	7.34E-4	-1.64E-1	3.19E-1
ETP-fw	CTUe	9.07E+1	1.12E+1	9.55E+0	1.12E+2	2.28E+0	2.03E+1	1.39E-1	-4.12E+1	9.30E+1
HTP-c	CTUh	5.00E-9	5.99E-10	3.77E-10	5.97E-9	8.10E-11	2.45E-9	3.91E-12	-1.89E-9	6.62E-9
HTP-nc	CTUh	1.04E-7	1.04E-8	1.03E-8	1.24E-7	2.71E-9	3.06E-8	8.89E-11	-3.34E-8	1.24E-7
SQP	Pt	2.00E+1	6.00E+0	4.50E-1	2.65E+1	2.40E+0	1.43E+1	4.05E-1	-8.73E+0	3.48E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	8.58E+0	1.35E-1	2.16E+1	3.03E+1	4.02E-2	8.82E-1	6.19E-3	-3.94E+0	2.73E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	8.58E+0	1.35E-1	2.16E+1	3.03E+1	4.02E-2	8.82E-1	6.19E-3	-3.94E+0	2.73E+1
PENRE	MJ	5.25E+2	1.63E+1	3.64E+0	5.45E+2	2.98E+0	1.90E+1	1.68E-1	-2.95E+2	2.72E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	5.25E+2	1.63E+1	3.64E+0	5.45E+2	2.98E+0	1.90E+1	1.68E-1	-2.95E+2	2.72E+2
PET	MJ	5.34E+2	1.65E+1	2.52E+1	5.75E+2	3.02E+0	1.99E+1	1.74E-1	-2.99E+2	2.99E+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	1.72E-1	1.17E-3	5.24E-2	2.26E-1	3.17E-4	1.03E-2	1.95E-4	-8.13E-2	1.56E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	7.95E-5	2.27E-5	5.22E-6	1.07E-4	7.17E-6	2.92E-5	1.90E-7	-8.53E-5	5.86E-5
NHWD	kg	5.99E-1	3.63E-1	1.60E-2	9.78E-1	1.74E-1	8.78E-1	6.95E-1	-2.27E-1	2.50E+0
RWD	kg	3.05E-4	1.05E-4	1.45E-5	4.25E-4	1.91E-5	6.82E-5	1.03E-6	-1.52E-4	3.61E-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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