

Environmental Profile

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

Ecochain v3.5.64



Product: 3064808 - PE Pipe Cable SRN DVK160-H YL/YL 6M
 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	1.87E+1	1.52E+0	6.33E-1	2.09E+1	2.41E-1	7.84E+0	1.33E-1	-1.21E+1	1.70E+1
GWP-f	kg CO2 eq	1.86E+1	1.52E+0	4.59E-1	2.06E+1	2.41E-1	7.84E+0	1.33E-1	-1.21E+1	1.68E+1
GWP-b	kg CO2 eq	9.77E-2	-9.94E-5	1.21E-1	2.18E-1	1.46E-4	-9.72E-3	1.00E-4	-4.51E-2	1.64E-1
GWP-luluc	kg CO2 eq	5.99E-3	8.97E-4	5.33E-2	6.02E-2	8.53E-5	1.36E-3	1.94E-6	-2.70E-3	5.89E-2
ODP	kg CFC11 eq	5.06E-7	3.14E-7	5.19E-8	8.72E-7	5.56E-8	1.77E-7	2.85E-9	-5.76E-7	5.32E-7
AP	mol H+ eq	6.85E-2	3.68E-2	3.88E-3	1.09E-1	1.37E-3	7.44E-3	6.81E-5	-3.35E-2	8.45E-2
EP-fw	kg P eq	3.29E-4	9.05E-6	8.46E-6	3.47E-4	1.98E-6	3.92E-5	8.91E-8	-1.51E-4	2.37E-4
EP-m	kg N eq	1.16E-2	9.34E-3	1.15E-3	2.21E-2	4.91E-4	2.16E-3	4.79E-5	-6.12E-3	1.87E-2
EP-T	mol N eq	1.32E-1	1.04E-1	1.26E-2	2.48E-1	5.42E-3	2.38E-2	2.76E-4	-6.81E-2	2.10E-1
POCP	kg NMVOC eq	6.24E-2	2.72E-2	3.51E-3	9.31E-2	1.55E-3	7.52E-3	1.08E-4	-3.19E-2	7.04E-2
ADP-mm	kg Sb eq	2.53E-4	1.97E-5	1.38E-5	2.86E-4	6.24E-6	2.94E-5	6.86E-8	-7.79E-5	2.44E-4
ADP-f	MJ	6.47E+2	2.05E+1	4.56E+0	6.73E+2	3.70E+0	2.35E+1	2.08E-1	-3.61E+2	3.39E+2
WDP	m3 depriv.	1.48E+1	4.50E-2	2.94E+0	1.78E+1	1.14E-2	4.62E-1	1.04E-3	-7.02E+0	1.12E+1
PM	disease inc.	5.74E-7	7.46E-8	6.55E-8	7.14E-7	2.18E-8	1.22E-7	1.43E-9	-2.67E-7	5.93E-7
IR	kBq U-235 eq	4.46E-1	8.73E-2	1.36E-2	5.47E-1	1.62E-2	7.10E-2	9.69E-4	-2.17E-1	4.18E-1
ETP-fw	CTUe	1.16E+2	1.50E+1	1.27E+1	1.44E+2	3.01E+0	2.68E+1	1.83E-1	-5.39E+1	1.20E+2
HTP-c	CTUh	6.24E-9	8.00E-10	5.02E-10	7.54E-9	1.07E-10	3.21E-9	5.12E-12	-2.50E-9	8.37E-9
HTP-nc	CTUh	1.31E-7	1.38E-8	1.37E-8	1.59E-7	3.58E-9	4.02E-8	1.17E-10	-4.69E-8	1.56E-7
SQP	Pt	2.59E+1	7.99E+0	5.99E-1	3.45E+1	3.17E+0	1.88E+1	5.34E-1	-1.15E+1	4.55E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.12E+1	1.79E-1	2.87E+1	4.02E+1	5.31E-2	1.16E+0	8.19E-3	-5.21E+0	3.62E+1
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.12E+1	1.79E-1	2.87E+1	4.02E+1	5.31E-2	1.16E+0	8.19E-3	-5.21E+0	3.62E+1
PENRE	MJ	6.95E+2	2.18E+1	4.84E+0	7.21E+2	3.93E+0	2.51E+1	2.21E-1	-3.90E+2	3.61E+2
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	6.95E+2	2.18E+1	4.84E+0	7.21E+2	3.93E+0	2.51E+1	2.21E-1	-3.90E+2	3.61E+2
PET	MJ	7.06E+2	2.20E+1	3.36E+1	7.61E+2	3.98E+0	2.62E+1	2.29E-1	-3.95E+2	3.97E+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	6.98E-2	2.98E-1	4.19E-4	1.36E-2	2.57E-4	-1.07E-1	2.05E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.01E-4	3.03E-5	6.94E-6	1.38E-4	9.46E-6	3.84E-5	2.51E-7	-1.11E-4	7.52E-5
NHWD	kg	7.63E-1	4.83E-1	2.13E-2	1.27E+0	2.29E-1	1.16E+0	9.17E-1	-2.99E-1	3.27E+0
RWD	kg	3.99E-4	1.40E-4	1.93E-5	5.59E-4	2.52E-5	9.00E-5	1.36E-6	-2.02E-4	4.73E-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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