Environmental Profile

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

Ecochain v3.5.64

Product:	3064787 - PE Pipe Cable YL 50 L=6 SRN DVK T
Unit:	1 piece
Manufacturer:	Wavin - SE - Eskilstuna

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.

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

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

Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	2.92E+0	1.56E-1	9.13E-2	3.16E+0	3.42E-2	1.32E+0	1.89E-2	-1.85E+0	2.69E+0
GWP-f	kg CO2 eq	2.91E+0	1.56E-1	6.62E-2	3.13E+0	3.41E-2	1.33E+0	1.89E-2	-1.84E+0	2.67E+0
GWP-b	kg CO2 eq	7.52E-3	-4.74E-6	1.74E-2	2.49E-2	2.07E-5	-1.37E-3	1.42E-5	-6.39E-3	1.72E-2
GWP-luluc	kg CO2 eq	1.07E-3	8.95E-5	7.69E-3	8.85E-3	1.21E-5	1.93E-4	2.78E-7	-3.85E-4	8.68E-3
ODP	kg CFC11 eq	8.61E-8	3.23E-8	7.50E-9	1.26E-7	7.87E-9	2.56E-8	4.05E-10	-9.49E-8	6.49E-8
AP	mol H+ eq	1.10E-2	3.58E-3	5.61E-4	1.51E-2	1.94E-4	1.09E-3	9.69E-6	-4.86E-3	1.16E-2
EP-fw	kg P eq	5.60E-5	9.69E-7	1.22E-6	5.82E-5	2.81E-7	5.60E-6	1.27E-8	-2.18E-5	4.22E-5
EP-m	kg N eq	1.88E-3	9.13E-4	1.66E-4	2.96E-3	6.96E-5	3.21E-4	6.86E-6	-9.01E-4	2.45E-3
EP-T	mol N eq	2.12E-2	1.01E-2	1.82E-3	3.32E-2	7.67E-4	3.53E-3	3.93E-5	-1.00E-2	2.75E-2
POCP	kg NMVOC eq	9.91E-3	2.66E-3	5.06E-4	1.31E-2	2.19E-4	1.11E-3	1.54E-5	-4.65E-3	9.77E-3
ADP-mm	kg Sb eq	4.86E-5	2.15E-6	1.99E-6	5.27E-5	8.83E-7	4.22E-6	9.77E-9	-1.14E-5	4.65E-5
ADP-f	MJ	9.82E+1	2.12E+0	6.58E-1	1.01E+2	5.24E-1	3.37E+0	2.96E-2	-5.34E+1	5.15E+1
WDP	m3 depriv.	2.28E+0	4.86E-3	4.24E-1	2.71E+0	1.61E-3	6.61E-2	1.55E-4	-1.00E+0	1.78E+0
PM	disease inc.	9.28E-8	8.05E-9	9.46E-9	1.10E-7	3.08E-9	1.77E-8	2.03E-10	-3.84E-8	9.29E-8
IR	kBq U-235 eq	7.23E-2	8.99E-3	1.96E-3	8.33E-2	2.29E-3	1.02E-2	1.38E-4	-3.13E-2	6.46E-2
ETP-fw	CTUe	2.08E+1	1.57E+0	1.83E+0	2.42E+1	4.26E-1	3.90E+0	2.63E-2	-7.96E+0	2.06E+1
HTP-c	CTUh	1.06E-9	8.09E-11	7.24E-11	1.21E-9	1.51E-11	4.84E-10	7.33E-13	-3.63E-10	1.35E-9
HTP-nc	CTUh	2.21E-8	1.47E-9	1.97E-9	2.55E-8	5.07E-10	5.94E-9	1.67E-11	-5.95E-9	2.60E-8
SQP	Pt	4.89E+0	8.98E-1	8.65E-2	5.88E+0	4.48E-1	2.70E+0	7.59E-2	-1.70E+0	7.40E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.90E+0	1.91E-2	4.15E+0	6.06E+0	7.52E-3	1.66E-1	1.16E-3	-7.44E-1	5.49E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.90E+0	1.91E-2	4.15E+0	6.06E+0	7.52E-3	1.66E-1	1.16E-3	-7.44E-1	5.49E+0
PENRE	MJ	1.05E+2	2.25E+0	6.98E-1	1.08E+2	5.56E-1	3.59E+0	3.14E-2	-5.76E+1	5.49E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.05E+2	2.25E+0	6.98E-1	1.08E+2	5.56E-1	3.59E+0	3.14E-2	-5.76E+1	5.49E+1
PET	MJ	1.07E+2	2.27E+0	4.85E+0	1.14E+2	5.64E-1	3.76E+0	3.26E-2	-5.84E+1	6.04E+1
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	3.66E-2	1.68E-4	1.01E-2	4.69E-2	5.93E-5	1.99E-3	3.65E-5	-1.54E-2	3.36E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.68E-5	3.29E-6	1.00E-6	2.11E-5	1.34E-6	5.58E-6	3.57E-8	-1.88E-5	9.23E-6
NHWD	kg	1.35E-1	5.60E-2	3.07E-3	1.94E-1	3.25E-2	1.75E-1	1.30E-1	-4.36E-2	4.88E-1
RWD	kg	6.52E-5	1.44E-5	2.78E-6	8.23E-5	3.56E-6	1.29E-5	1.93E-7	-2.95E-5	6.96E-5
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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