Environmental Profile

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

Ecochain v3.5.64

Product:	3064791 - PE Pipe Cable GN 75 L=6 SRN DVK
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	4.93E+0	2.80E-1	1.66E-1	5.37E+0	6.27E-2	2.03E+0	3.46E-2	-3.15E+0	4.36E+0
GWP-f	kg CO2 eq	4.90E+0	2.80E-1	1.20E-1	5.30E+0	6.26E-2	2.04E+0	3.46E-2	-3.14E+0	4.30E+0
GWP-b	kg CO2 eq	2.31E-2	-9.73E-6	3.16E-2	5.47E-2	3.80E-5	-2.53E-3	2.60E-5	-1.17E-2	4.05E-2
GWP-luluc	kg CO2 eq	1.65E-3	1.61E-4	1.40E-2	1.58E-2	2.22E-5	3.53E-4	5.08E-7	-6.99E-4	1.54E-2
ODP	kg CFC11 eq	1.39E-7	5.81E-8	1.36E-8	2.11E-7	1.44E-8	4.60E-8	7.41E-10	-1.49E-7	1.23E-7
AP	mol H+ eq	1.82E-2	6.48E-3	1.02E-3	2.57E-2	3.57E-4	1.93E-3	1.77E-5	-8.72E-3	1.93E-2
EP-fw	kg P eq	8.92E-5	1.73E-6	2.22E-6	9.31E-5	5.16E-7	1.02E-5	2.32E-8	-3.94E-5	6.44E-5
EP-m	kg N eq	3.09E-3	1.65E-3	3.01E-4	5.04E-3	1.28E-4	5.62E-4	1.24E-5	-1.59E-3	4.15E-3
EP-T	mol N eq	3.50E-2	1.83E-2	3.31E-3	5.67E-2	1.41E-3	6.19E-3	7.19E-5	-1.77E-2	4.66E-2
POCP	kg NMVOC eq	1.64E-2	4.81E-3	9.18E-4	2.21E-2	4.02E-4	1.96E-3	2.81E-5	-8.29E-3	1.62E-2
ADP-mm	kg Sb eq	6.95E-5	3.83E-6	3.61E-6	7.70E-5	1.62E-6	7.66E-6	1.79E-8	-2.02E-5	6.60E-5
ADP-f	MJ	1.69E+2	3.80E+0	1.19E+0	1.74E+2	9.62E-1	6.12E+0	5.41E-2	-9.39E+1	8.68E+1
WDP	m3 depriv.	3.87E+0	8.68E-3	7.69E-1	4.64E+0	2.95E-3	1.20E-1	2.83E-4	-1.82E+0	2.94E+0
PM	disease inc.	1.53E-7	1.44E-8	1.72E-8	1.84E-7	5.66E-9	3.18E-8	3.72E-10	-6.94E-8	1.52E-7
IR	kBq U-235 eq	1.20E-1	1.62E-2	3.55E-3	1.40E-1	4.20E-3	1.85E-2	2.52E-4	-5.62E-2	1.06E-1
ETP-fw	CTUe	3.20E+1	2.81E+0	3.33E+0	3.81E+1	7.81E-1	6.96E+0	4.77E-2	-1.41E+1	3.18E+1
HTP-c	CTUh	1.72E-9	1.46E-10	1.31E-10	2.00E-9	2.78E-11	8.42E-10	1.34E-12	-6.48E-10	2.22E-9
HTP-nc	CTUh	3.59E-8	2.64E-9	3.58E-9	4.21E-8	9.31E-10	1.05E-8	3.05E-11	-1.15E-8	4.20E-8
SQP	Pt	7.22E+0	1.60E+0	1.57E-1	8.97E+0	8.23E-1	4.90E+0	1.39E-1	-2.99E+0	1.18E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.04E+0	3.41E-2	7.52E+0	1.06E+1	1.38E-2	3.02E-1	2.12E-3	-1.35E+0	9.56E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.04E+0	3.41E-2	7.52E+0	1.06E+1	1.38E-2	3.02E-1	2.12E-3	-1.35E+0	9.56E+0
PENRE	MJ	1.81E+2	4.03E+0	1.27E+0	1.86E+2	1.02E+0	6.52E+0	5.74E-2	-1.01E+2	9.25E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.81E+2	4.03E+0	1.27E+0	1.86E+2	1.02E+0	6.52E+0	5.74E-2	-1.01E+2	9.25E+1
PET	MJ	1.84E+2	4.07E+0	8.79E+0	1.97E+2	1.03E+0	6.82E+0	5.96E-2	-1.03E+2	1.02E+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	5.97E-2	3.01E-4	1.83E-2	7.82E-2	1.09E-4	3.53E-3	6.68E-5	-2.79E-2	5.41E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.90E-5	5.87E-6	1.82E-6	3.67E-5	2.46E-6	1.00E-5	6.53E-8	-2.92E-5	2.01E-5
NHWD	kg	2.09E-1	9.92E-2	5.57E-3	3.14E-1	5.96E-2	3.01E-1	2.38E-1	-7.79E-2	8.35E-1
RWD	kg	1.07E-4	2.59E-5	5.05E-6	1.38E-4	6.54E-6	2.34E-5	3.54E-7	-5.23E-5	1.16E-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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