Environmental Profile

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

Ecochain v3.5.64

Product:	3064793 - PE Pipe Cable GN 75 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	5.26E+0	2.82E-1	1.66E-1	5.71E+0	6.19E-2	2.39E+0	3.42E-2	-3.34E+0	4.86E+0
GWP-f	kg CO2 eq	5.25E+0	2.82E-1	1.20E-1	5.65E+0	6.18E-2	2.40E+0	3.42E-2	-3.33E+0	4.81E+0
GWP-b	kg CO2 eq	1.36E-2	-8.67E-6	3.16E-2	4.52E-2	3.75E-5	-2.48E-3	2.57E-5	-1.16E-2	3.12E-2
GWP-luluc	kg CO2 eq	1.92E-3	1.62E-4	1.40E-2	1.60E-2	2.19E-5	3.50E-4	5.03E-7	-7.01E-4	1.57E-2
ODP	kg CFC11 eq	1.53E-7	5.86E-8	1.36E-8	2.25E-7	1.42E-8	4.63E-8	7.33E-10	-1.72E-7	1.15E-7
AP	mol H+ eq	1.98E-2	6.49E-3	1.02E-3	2.73E-2	3.52E-4	1.97E-3	1.75E-5	-8.79E-3	2.08E-2
EP-fw	kg P eq	1.00E-4	1.76E-6	2.22E-6	1.04E-4	5.09E-7	1.01E-5	2.30E-8	-3.94E-5	7.56E-5
EP-m	kg N eq	3.38E-3	1.66E-3	3.01E-4	5.34E-3	1.26E-4	5.80E-4	1.24E-5	-1.63E-3	4.43E-3
EP-T	mol N eq	3.83E-2	1.84E-2	3.31E-3	6.00E-2	1.39E-3	6.39E-3	7.11E-5	-1.81E-2	4.97E-2
POCP	kg NMVOC eq	1.79E-2	4.82E-3	9.18E-4	2.36E-2	3.97E-4	2.01E-3	2.78E-5	-8.40E-3	1.76E-2
ADP-mm	kg Sb eq	8.52E-5	3.89E-6	3.61E-6	9.27E-5	1.60E-6	7.64E-6	1.77E-8	-2.05E-5	8.14E-5
ADP-f	MJ	1.78E+2	3.83E+0	1.19E+0	1.83E+2	9.49E-1	6.11E+0	5.36E-2	-9.67E+1	9.31E+1
WDP	m3 depriv.	4.13E+0	8.80E-3	7.69E-1	4.91E+0	2.91E-3	1.20E-1	2.80E-4	-1.82E+0	3.22E+0
PM	disease inc.	1.67E-7	1.46E-8	1.72E-8	1.98E-7	5.58E-9	3.20E-8	3.68E-10	-6.93E-8	1.67E-7
IR	kBq U-235 eq	1.30E-1	1.63E-2	3.55E-3	1.49E-1	4.15E-3	1.85E-2	2.49E-4	-5.68E-2	1.16E-1
ETP-fw	CTUe	3.70E+1	2.84E+0	3.33E+0	4.32E+1	7.71E-1	7.05E+0	4.75E-2	-1.43E+1	3.68E+1
HTP-c	CTUh	1.83E-9	1.47E-10	1.31E-10	2.11E-9	2.74E-11	8.76E-10	1.33E-12	-6.56E-10	2.36E-9
HTP-nc	CTUh	3.89E-8	2.67E-9	3.58E-9	4.51E-8	9.19E-10	1.07E-8	3.02E-11	-1.16E-8	4.52E-8
SQP	Pt	8.78E+0	1.63E+0	1.57E-1	1.06E+1	8.12E-1	4.88E+0	1.37E-1	-3.07E+0	1.33E+1
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	3.41E+0	3.46E-2	7.52E+0	1.10E+1	1.36E-2	3.01E-1	2.10E-3	-1.35E+0	9.93E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	3.41E+0	3.46E-2	7.52E+0	1.10E+1	1.36E-2	3.01E-1	2.10E-3	-1.35E+0	9.93E+0
PENRE	MJ	1.91E+2	4.07E+0	1.27E+0	1.96E+2	1.01E+0	6.50E+0	5.68E-2	-1.04E+2	9.91E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.91E+2	4.07E+0	1.27E+0	1.96E+2	1.01E+0	6.50E+0	5.68E-2	-1.04E+2	9.91E+1
PET	MJ	1.94E+2	4.10E+0	8.79E+0	2.07E+2	1.02E+0	6.81E+0	5.90E-2	-1.06E+2	1.09E+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	6.62E-2	3.05E-4	1.83E-2	8.47E-2	1.07E-4	3.60E-3	6.61E-5	-2.78E-2	6.07E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	2.97E-5	5.95E-6	1.82E-6	3.74E-5	2.43E-6	1.01E-5	6.46E-8	-3.35E-5	1.65E-5
NHWD	kg	2.40E-1	1.01E-1	5.57E-3	3.47E-1	5.88E-2	3.16E-1	2.36E-1	-7.86E-2	8.78E-1
RWD	kg	1.16E-4	2.61E-5	5.05E-6	1.48E-4	6.46E-6	2.34E-5	3.50E-7	-5.34E-5	1.24E-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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