Environmental Profile

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

Ecochain v3.5.64

Product:	3064784 - PE Pipe Cable OR 50 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	2.71E+0	1.54E-1	9.13E-2	2.96E+0	3.47E-2	1.13E+0	1.92E-2	-1.75E+0	2.39E+0
GWP-f	kg CO2 eq	2.70E+0	1.54E-1	6.62E-2	2.92E+0	3.47E-2	1.13E+0	1.92E-2	-1.74E+0	2.36E+0
GWP-b	kg CO2 eq	1.41E-2	-5.29E-6	1.74E-2	3.15E-2	2.11E-5	-1.41E-3	1.44E-5	-6.45E-3	2.37E-2
GWP-luluc	kg CO2 eq	8.84E-4	8.91E-5	7.69E-3	8.67E-3	1.23E-5	1.95E-4	2.81E-7	-3.85E-4	8.49E-3
ODP	kg CFC11 eq	7.53E-8	3.21E-8	7.50E-9	1.15E-7	7.99E-9	2.55E-8	4.10E-10	-8.27E-8	6.61E-8
AP	mol H+ eq	9.99E-3	3.57E-3	5.61E-4	1.41E-2	1.98E-4	1.07E-3	9.82E-6	-4.84E-3	1.06E-2
EP-fw	kg P eq	4.85E-5	9.57E-7	1.22E-6	5.07E-5	2.85E-7	5.65E-6	1.29E-8	-2.19E-5	3.47E-5
EP-m	kg N eq	1.69E-3	9.11E-4	1.66E-4	2.77E-3	7.07E-5	3.12E-4	6.88E-6	-8.83E-4	2.28E-3
EP-T	mol N eq	1.92E-2	1.01E-2	1.82E-3	3.12E-2	7.79E-4	3.43E-3	3.98E-5	-9.83E-3	2.56E-2
POCP	kg NMVOC eq	9.03E-3	2.65E-3	5.06E-4	1.22E-2	2.23E-4	1.08E-3	1.56E-5	-4.60E-3	8.91E-3
ADP-mm	kg Sb eq	3.84E-5	2.12E-6	1.99E-6	4.25E-5	8.98E-7	4.25E-6	9.89E-9	-1.12E-5	3.64E-5
ADP-f	MJ	9.30E+1	2.10E+0	6.58E-1	9.58E+1	5.33E-1	3.39E+0	3.00E-2	-5.20E+1	4.77E+1
WDP	m3 depriv.	2.13E+0	4.79E-3	4.24E-1	2.56E+0	1.63E-3	6.64E-2	1.57E-4	-1.01E+0	1.62E+0
PM	disease inc.	8.41E-8	7.95E-9	9.46E-9	1.01E-7	3.13E-9	1.76E-8	2.06E-10	-3.86E-8	8.39E-8
IR	kBq U-235 eq	6.51E-2	8.92E-3	1.96E-3	7.60E-2	2.33E-3	1.02E-2	1.39E-4	-3.11E-2	5.76E-2
ETP-fw	CTUe	1.75E+1	1.55E+0	1.83E+0	2.09E+1	4.32E-1	3.86E+0	2.64E-2	-7.89E+0	1.73E+1
HTP-c	CTUh	9.91E-10	8.04E-11	7.24E-11	1.14E-9	1.54E-11	4.67E-10	7.42E-13	-3.59E-10	1.27E-9
HTP-nc	CTUh	2.02E-8	1.46E-9	1.97E-9	2.36E-8	5.16E-10	5.81E-9	1.69E-11	-5.94E-9	2.40E-8
SQP	Pt	3.83E+0	8.83E-1	8.65E-2	4.80E+0	4.56E-1	2.72E+0	7.69E-2	-1.66E+0	6.39E+0
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.64E+0	1.89E-2	4.15E+0	5.81E+0	7.64E-3	1.68E-1	1.18E-3	-7.48E-1	5.23E+0
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.64E+0	1.89E-2	4.15E+0	5.81E+0	7.64E-3	1.68E-1	1.18E-3	-7.48E-1	5.23E+0
PENRE	MJ	9.98E+1	2.23E+0	6.98E-1	1.03E+2	5.65E-1	3.61E+0	3.18E-2	-5.61E+1	5.08E+1
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	9.98E+1	2.23E+0	6.98E-1	1.03E+2	5.65E-1	3.61E+0	3.18E-2	-5.61E+1	5.08E+1
PET	MJ	1.01E+2	2.25E+0	4.85E+0	1.09E+2	5.73E-1	3.78E+0	3.30E-2	-5.68E+1	5.61E+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	3.28E-2	1.66E-4	1.01E-2	4.31E-2	6.03E-5	1.95E-3	3.70E-5	-1.54E-2	2.97E-2

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.54E-5	3.24E-6	1.00E-6	1.97E-5	1.36E-6	5.55E-6	3.62E-8	-1.64E-5	1.02E-5
NHWD	kg	1.16E-1	5.49E-2	3.07E-3	1.74E-1	3.30E-2	1.67E-1	1.32E-1	-4.34E-2	4.62E-1
RWD	kg	5.84E-5	1.43E-5	2.78E-6	7.54E-5	3.62E-6	1.30E-5	1.96E-7	-2.89E-5	6.33E-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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