Environmental Profile

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

Ecochain v3.5.64

Product:	3065039 - PE Pipe Cable BK/YL 125 L=250 SRE-P
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	2.00E+3	1.69E+2	7.29E+1	2.25E+3	2.60E+1	8.46E+2	1.44E+1	-1.30E+3	1.83E+3
GWP-f	kg CO2 eq	1.99E+3	1.69E+2	5.28E+1	2.21E+3	2.60E+1	8.47E+2	1.44E+1	-1.30E+3	1.80E+3
GWP-b	kg CO2 eq	1.05E+1	-1.14E-2	1.39E+1	2.44E+1	1.58E-2	-1.04E+0	1.08E-2	-4.93E+0	1.84E+1
GWP-luluc	kg CO2 eq	6.20E-1	9.97E-2	6.14E+0	6.86E+0	9.20E-3	1.46E-1	2.07E-4	-2.96E-1	6.72E+0
ODP	kg CFC11 eq	5.15E-5	3.49E-5	5.98E-6	9.24E-5	5.99E-6	1.90E-5	3.07E-7	-6.23E-5	5.54E-5
AP	mol H+ eq	7.23E+0	4.10E+0	4.47E-1	1.18E+1	1.48E-1	7.99E-1	7.33E-3	-3.60E+0	9.13E+0
EP-fw	kg P eq	3.42E-2	1.00E-3	9.75E-4	3.62E-2	2.14E-4	4.21E-3	9.53E-6	-1.62E-2	2.44E-2
EP-m	kg N eq	1.23E+0	1.04E+0	1.33E-1	2.41E+0	5.30E-2	2.32E-1	5.18E-3	-6.58E-1	2.04E+0
EP-T	mol N eq	1.39E+1	1.15E+1	1.45E+0	2.69E+1	5.84E-1	2.56E+0	2.98E-2	-7.32E+0	2.28E+1
POCP	kg NMVOC eq	6.67E+0	3.02E+0	4.04E-1	1.01E+1	1.67E-1	8.09E-1	1.17E-2	-3.41E+0	7.67E+0
ADP-mm	kg Sb eq	2.53E-2	2.18E-3	1.59E-3	2.91E-2	6.72E-4	3.16E-3	7.36E-6	-8.40E-3	2.45E-2
ADP-f	MJ	7.00E+4	2.27E+3	5.25E+2	7.28E+4	3.99E+2	2.53E+3	2.24E+1	-3.90E+4	3.68E+4
WDP	m3 depriv.	1.59E+3	4.97E+0	3.38E+2	1.93E+3	1.22E+0	4.98E+1	1.04E-1	-7.57E+2	1.23E+3
PM	disease inc.	6.03E-5	8.24E-6	7.55E-6	7.60E-5	2.35E-6	1.31E-5	1.54E-7	-2.85E-5	6.32E-5
IR	kBq U-235 eq	4.70E+1	9.68E+0	1.56E+0	5.83E+1	1.74E+0	7.63E+0	1.05E-1	-2.35E+1	4.42E+1
ETP-fw	CTUe	1.15E+4	1.66E+3	1.46E+3	1.47E+4	3.24E+2	2.87E+3	1.98E+1	-5.66E+3	1.22E+4
HTP-c	CTUh	5.64E-7	8.88E-8	5.78E-8	7.10E-7	1.15E-8	3.42E-7	5.46E-10	-2.69E-7	7.95E-7
HTP-nc	CTUh	1.27E-5	1.53E-6	1.58E-6	1.58E-5	3.86E-7	4.31E-6	1.26E-8	-6.02E-6	1.45E-5
SQP	Pt	2.69E+3	8.80E+2	6.90E+1	3.64E+3	3.41E+2	2.02E+3	5.76E+1	-1.24E+3	4.83E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.18E+3	1.98E+1	3.31E+3	4.51E+3	5.72E+0	1.25E+2	8.87E-1	-5.64E+2	4.08E+3
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.18E+3	1.98E+1	3.31E+3	4.51E+3	5.72E+0	1.25E+2	8.87E-1	-5.64E+2	4.08E+3
PENRE	MJ	7.51E+4	2.41E+3	5.57E+2	7.81E+4	4.24E+2	2.70E+3	2.38E+1	-4.20E+4	3.92E+4
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	7.51E+4	2.41E+3	5.57E+2	7.81E+4	4.24E+2	2.70E+3	2.38E+1	-4.20E+4	3.92E+4
PET	MJ	7.63E+4	2.43E+3	3.87E+3	8.26E+4	4.29E+2	2.82E+3	2.47E+1	-4.26E+4	4.33E+4
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	2.41E+1	1.73E-1	8.04E+0	3.23E+1	4.52E-2	1.46E+0	2.77E-2	-1.16E+1	2.23E+1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	9.89E-3	3.34E-3	7.99E-4	1.40E-2	1.02E-3	4.12E-3	2.69E-5	-1.14E-2	7.76E-3
NHWD	kg	7.55E+1	5.30E+1	2.45E+0	1.31E+2	2.47E+1	1.24E+2	9.89E+1	-3.18E+1	3.47E+2
RWD	kg	4.20E-2	1.55E-2	2.22E-3	5.98E-2	2.71E-3	9.67E-3	1.47E-4	-2.18E-2	5.04E-2
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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