Environmental Profile

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

Ecochain v3.5.64

Product:	3065040 - PE Pipe Cable BK/YL 90 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	1.04E+3	9.21E+1	3.79E+1	1.17E+3	1.42E+1	5.17E+2	7.84E+0	-7.11E+2	1.00E+3
GWP-f	kg CO2 eq	1.09E+3	9.21E+1	2.75E+1	1.21E+3	1.41E+1	4.62E+2	7.84E+0	-7.08E+2	9.89E+2
GWP-b	kg CO2 eq	-5.08E+1	-6.08E-3	7.22E+0	-4.36E+1	8.59E-3	5.59E+1	5.88E-3	-2.68E+0	9.63E+0
GWP-luluc	kg CO2 eq	3.72E-1	5.44E-2	3.19E+0	3.62E+0	5.01E-3	7.96E-2	1.13E-4	-1.69E-1	3.53E+0
ODP	kg CFC11 eq	2.93E-5	1.90E-5	3.11E-6	5.14E-5	3.26E-6	1.04E-5	1.67E-7	-3.42E-5	3.11E-5
AP	mol H+ eq	4.00E+0	2.23E+0	2.33E-1	6.47E+0	8.06E-2	4.40E-1	3.99E-3	-1.98E+0	5.01E+0
EP-fw	kg P eq	1.91E-2	5.48E-4	5.07E-4	2.01E-2	1.16E-4	2.30E-3	5.18E-6	-8.90E-3	1.37E-2
EP-m	kg N eq	6.91E-1	5.66E-1	6.89E-2	1.33E+0	2.88E-2	1.29E-1	2.82E-3	-3.65E-1	1.12E+0
EP-T	mol N eq	7.82E+0	6.29E+0	7.56E-1	1.49E+1	3.18E-1	1.42E+0	1.62E-2	-4.10E+0	1.25E+1
POCP	kg NMVOC eq	3.69E+0	1.65E+0	2.10E-1	5.55E+0	9.08E-2	4.47E-1	6.35E-3	-1.88E+0	4.21E+0
ADP-mm	kg Sb eq	1.38E-2	1.20E-3	8.26E-4	1.58E-2	3.66E-4	1.73E-3	4.01E-6	-4.59E-3	1.33E-2
ADP-f	MJ	3.83E+4	1.24E+3	2.73E+2	3.98E+4	2.17E+2	1.38E+3	1.22E+1	-2.12E+4	2.02E+4
WDP	m3 depriv.	8.70E+2	2.72E+0	1.76E+2	1.05E+3	6.66E-1	2.71E+1	5.64E-2	-4.12E+2	6.65E+2
PM	disease inc.	3.57E-5	4.51E-6	3.92E-6	4.42E-5	1.28E-6	7.21E-6	8.39E-8	-1.59E-5	3.68E-5
IR	kBq U-235 eq	2.62E+1	5.29E+0	8.11E-1	3.23E+1	9.49E-1	4.18E+0	5.69E-2	-1.29E+1	2.46E+1
ETP-fw	CTUe	6.56E+3	9.07E+2	7.61E+2	8.23E+3	1.76E+2	1.57E+3	1.08E+1	-3.31E+3	6.67E+3
HTP-c	CTUh	3.28E-7	4.85E-8	3.00E-8	4.07E-7	6.27E-9	1.90E-7	2.97E-10	-1.50E-7	4.53E-7
HTP-nc	CTUh	7.14E-6	8.37E-7	8.19E-7	8.80E-6	2.10E-7	2.36E-6	6.85E-9	-3.38E-6	8.00E-6
SQP	Pt	6.60E+3	4.83E+2	3.59E+1	7.12E+3	1.86E+2	1.11E+3	3.13E+1	-1.77E+3	6.67E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	1.42E+3	1.09E+1	1.72E+3	3.15E+3	3.12E+0	6.82E+1	4.83E-1	-5.27E+2	2.69E+3
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	1.42E+3	1.09E+1	1.72E+3	3.15E+3	3.12E+0	6.82E+1	4.83E-1	-5.27E+2	2.69E+3
PENRE	MJ	4.10E+4	1.32E+3	2.90E+2	4.27E+4	2.31E+2	1.47E+3	1.30E+1	-2.29E+4	2.15E+4
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.10E+4	1.32E+3	2.90E+2	4.27E+4	2.31E+2	1.47E+3	1.30E+1	-2.29E+4	2.15E+4
PET	MJ	4.25E+4	1.33E+3	2.01E+3	4.58E+4	2.34E+2	1.54E+3	1.34E+1	-2.34E+4	2.42E+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	1.32E+1	9.47E-2	4.18E+0	1.75E+1	2.46E-2	8.04E-1	1.51E-2	-6.31E+0	1.20E+1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.77E-3	1.83E-3	4.15E-4	8.01E-3	5.55E-4	2.26E-3	1.47E-5	-6.28E-3	4.56E-3
NHWD	kg	4.35E+1	2.92E+1	1.27E+0	7.39E+1	1.35E+1	6.89E+1	5.38E+1	-1.78E+1	1.92E+2
RWD	kg	2.36E-2	8.47E-3	1.15E-3	3.32E-2	1.48E-3	5.29E-3	7.98E-5	-1.20E-2	2.81E-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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