Environmental Profile

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

Ecochain v3.5.64

Product:	3065036 - PE Pipe Cable BK/YL 110 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	1.55E+3	1.30E+2	5.62E+1	1.73E+3	2.01E+1	6.53E+2	1.11E+1	-1.01E+3	1.41E+3
GWP-f	kg CO2 eq	1.54E+3	1.30E+2	4.07E+1	1.71E+3	2.00E+1	6.53E+2	1.11E+1	-1.00E+3	1.39E+3
GWP-b	kg CO2 eq	8.08E+0	-8.83E-3	1.07E+1	1.88E+1	1.22E-2	-8.02E-1	8.34E-3	-3.80E+0	1.42E+1
GWP-luluc	kg CO2 eq	4.78E-1	7.69E-2	4.73E+0	5.29E+0	7.09E-3	1.13E-1	1.60E-4	-2.28E-1	5.18E+0
ODP	kg CFC11 eq	3.98E-5	2.69E-5	4.61E-6	7.13E-5	4.62E-6	1.47E-5	2.37E-7	-4.81E-5	4.27E-5
AP	mol H+ eq	5.58E+0	3.16E+0	3.45E-1	9.08E+0	1.14E-1	6.16E-1	5.65E-3	-2.77E+0	7.04E+0
EP-fw	kg P eq	2.64E-2	7.72E-4	7.52E-4	2.79E-2	1.65E-4	3.25E-3	7.35E-6	-1.25E-2	1.88E-2
EP-m	kg N eq	9.52E-1	8.01E-1	1.02E-1	1.86E+0	4.09E-2	1.79E-1	4.00E-3	-5.07E-1	1.57E+0
EP-T	mol N eq	1.08E+1	8.90E+0	1.12E+0	2.08E+1	4.50E-1	1.97E+0	2.30E-2	-5.64E+0	1.76E+1
POCP	kg NMVOC eq	5.14E+0	2.33E+0	3.12E-1	7.78E+0	1.29E-1	6.24E-1	9.00E-3	-2.63E+0	5.92E+0
ADP-mm	kg Sb eq	1.95E-2	1.68E-3	1.23E-3	2.24E-2	5.19E-4	2.44E-3	5.68E-6	-6.48E-3	1.89E-2
ADP-f	MJ	5.40E+4	1.75E+3	4.05E+2	5.62E+4	3.08E+2	1.95E+3	1.73E+1	-3.01E+4	2.84E+4
WDP	m3 depriv.	1.23E+3	3.84E+0	2.61E+2	1.49E+3	9.44E-1	3.84E+1	8.00E-2	-5.84E+2	9.47E+2
PM	disease inc.	4.65E-5	6.35E-6	5.82E-6	5.87E-5	1.81E-6	1.01E-5	1.19E-7	-2.19E-5	4.88E-5
IR	kBq U-235 eq	3.63E+1	7.46E+0	1.20E+0	4.49E+1	1.34E+0	5.88E+0	8.06E-2	-1.81E+1	3.41E+1
ETP-fw	CTUe	8.90E+3	1.28E+3	1.13E+3	1.13E+4	2.50E+2	2.22E+3	1.53E+1	-4.37E+3	9.42E+3
HTP-c	CTUh	4.35E-7	6.85E-8	4.46E-8	5.48E-7	8.89E-9	2.63E-7	4.21E-10	-2.08E-7	6.13E-7
HTP-nc	CTUh	9.80E-6	1.18E-6	1.21E-6	1.22E-5	2.98E-7	3.33E-6	9.70E-9	-4.64E-6	1.12E-5
SQP	Pt	2.08E+3	6.78E+2	5.32E+1	2.81E+3	2.63E+2	1.56E+3	4.44E+1	-9.53E+2	3.73E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	9.14E+2	1.53E+1	2.55E+3	3.48E+3	4.41E+0	9.64E+1	6.84E-1	-4.35E+2	3.15E+3
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	9.14E+2	1.53E+1	2.55E+3	3.48E+3	4.41E+0	9.64E+1	6.84E-1	-4.35E+2	3.15E+3
PENRE	MJ	5.80E+4	1.86E+3	4.30E+2	6.02E+4	3.27E+2	2.08E+3	1.84E+1	-3.24E+4	3.02E+4
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	5.80E+4	1.86E+3	4.30E+2	6.02E+4	3.27E+2	2.08E+3	1.84E+1	-3.24E+4	3.02E+4
PET	MJ	5.89E+4	1.88E+3	2.98E+3	6.37E+4	3.31E+2	2.18E+3	1.90E+1	-3.29E+4	3.34E+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	1.86E+1	1.33E-1	6.19E+0	2.49E+1	3.48E-2	1.13E+0	2.14E-2	-8.92E+0	1.72E+1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	7.63E-3	2.58E-3	6.16E-4	1.08E-2	7.87E-4	3.18E-3	2.08E-5	-8.83E-3	5.99E-3
NHWD	kg	5.82E+1	4.09E+1	1.89E+0	1.01E+2	1.91E+1	9.60E+1	7.62E+1	-2.45E+1	2.68E+2
RWD	kg	3.24E-2	1.20E-2	1.71E-3	4.61E-2	2.09E-3	7.46E-3	1.13E-4	-1.68E-2	3.89E-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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