Environmental Profile

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

Ecochain v3.5.64

Product:	3065034 - PE Pipe Cable BK/YL 125 L=250 SRS
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	1.39E+3	1.17E+2	4.92E+1	1.56E+3	1.80E+1	5.87E+2	9.99E+0	-9.05E+2	1.27E+3
GWP-f	kg CO2 eq	1.38E+3	1.17E+2	3.57E+1	1.54E+3	1.80E+1	5.88E+2	9.99E+0	-9.01E+2	1.25E+3
GWP-b	kg CO2 eq	7.26E+0	-7.94E-3	9.39E+0	1.66E+1	1.09E-2	-7.21E-1	7.50E-3	-3.42E+0	1.25E+1
GWP-luluc	kg CO2 eq	4.30E-1	6.92E-2	4.15E+0	4.65E+0	6.38E-3	1.01E-1	1.44E-4	-2.05E-1	4.55E+0
ODP	kg CFC11 eq	3.58E-5	2.42E-5	4.04E-6	6.40E-5	4.15E-6	1.32E-5	2.13E-7	-4.32E-5	3.83E-5
AP	mol H+ eq	5.02E+0	2.84E+0	3.02E-1	8.16E+0	1.03E-1	5.54E-1	5.09E-3	-2.50E+0	6.33E+0
EP-fw	kg P eq	2.37E-2	6.94E-4	6.59E-4	2.51E-2	1.48E-4	2.92E-3	6.61E-6	-1.12E-2	1.69E-2
EP-m	kg N eq	8.57E-1	7.21E-1	8.96E-2	1.67E+0	3.67E-2	1.61E-1	3.60E-3	-4.56E-1	1.41E+0
EP-T	mol N eq	9.67E+0	8.01E+0	9.83E-1	1.87E+1	4.05E-1	1.77E+0	2.06E-2	-5.08E+0	1.58E+1
POCP	kg NMVOC eq	4.63E+0	2.10E+0	2.73E-1	6.99E+0	1.16E-1	5.61E-1	8.09E-3	-2.37E+0	5.31E+0
ADP-mm	kg Sb eq	1.74E-2	1.51E-3	1.07E-3	2.00E-2	4.66E-4	2.19E-3	5.10E-6	-5.82E-3	1.69E-2
ADP-f	MJ	4.86E+4	1.58E+3	3.55E+2	5.05E+4	2.77E+2	1.76E+3	1.56E+1	-2.70E+4	2.55E+4
WDP	m3 depriv.	1.10E+3	3.45E+0	2.29E+2	1.34E+3	8.49E-1	3.45E+1	7.19E-2	-5.25E+2	8.46E+2
PM	disease inc.	4.18E-5	5.72E-6	5.10E-6	5.26E-5	1.63E-6	9.12E-6	1.07E-7	-1.97E-5	4.37E-5
IR	kBq U-235 eq	3.26E+1	6.71E+0	1.05E+0	4.04E+1	1.21E+0	5.29E+0	7.25E-2	-1.63E+1	3.07E+1
ETP-fw	CTUe	8.00E+3	1.15E+3	9.89E+2	1.01E+4	2.25E+2	1.99E+3	1.37E+1	-3.93E+3	8.45E+3
HTP-c	CTUh	3.91E-7	6.16E-8	3.91E-8	4.91E-7	8.00E-9	2.37E-7	3.78E-10	-1.87E-7	5.50E-7
HTP-nc	CTUh	8.81E-6	1.06E-6	1.06E-6	1.09E-5	2.68E-7	2.99E-6	8.72E-9	-4.18E-6	1.00E-5
SQP	Pt	1.86E+3	6.10E+2	4.66E+1	2.52E+3	2.37E+2	1.40E+3	3.99E+1	-8.57E+2	3.34E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	8.22E+2	1.38E+1	2.24E+3	3.07E+3	3.97E+0	8.67E+1	6.16E-1	-3.91E+2	2.77E+3
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	8.22E+2	1.38E+1	2.24E+3	3.07E+3	3.97E+0	8.67E+1	6.16E-1	-3.91E+2	2.77E+3
PENRE	MJ	5.21E+4	1.67E+3	3.77E+2	5.42E+4	2.94E+2	1.87E+3	1.65E+1	-2.92E+4	2.72E+4
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	5.21E+4	1.67E+3	3.77E+2	5.42E+4	2.94E+2	1.87E+3	1.65E+1	-2.92E+4	2.72E+4
PET	MJ	5.30E+4	1.69E+3	2.61E+3	5.73E+4	2.98E+2	1.96E+3	1.71E+1	-2.96E+4	3.00E+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	1.67E+1	1.20E-1	5.43E+0	2.23E+1	3.13E-2	1.02E+0	1.92E-2	-8.03E+0	1.53E+1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	6.85E-3	2.32E-3	5.40E-4	9.71E-3	7.08E-4	2.86E-3	1.87E-5	-7.94E-3	5.35E-3
NHWD	kg	5.22E+1	3.68E+1	1.66E+0	9.06E+1	1.72E+1	8.64E+1	6.86E+1	-2.20E+1	2.41E+2
RWD	kg	2.92E-2	1.08E-2	1.50E-3	4.14E-2	1.88E-3	6.71E-3	1.02E-4	-1.51E-2	3.50E-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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