Environmental Profile

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

Ecochain v3.5.64

Product:	3065015 - PE Pipe Cable BK/YL 75 L=100 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	2.93E+2	2.50E+1	1.06E+1	3.29E+2	3.86E+0	1.32E+2	2.13E+0	-1.94E+2	2.72E+2
GWP-f	kg CO2 eq	2.97E+2	2.50E+1	7.68E+0	3.30E+2	3.85E+0	1.26E+2	2.13E+0	-1.93E+2	2.69E+2
GWP-b	kg CO2 eq	-4.09E+0	-1.68E-3	2.02E+0	-2.08E+0	2.34E-3	5.48E+0	1.60E-3	-7.30E-1	2.67E+0
GWP-luluc	kg CO2 eq	9.58E-2	1.48E-2	8.92E-1	1.00E+0	1.36E-3	2.17E-2	3.07E-5	-4.46E-2	9.81E-1
ODP	kg CFC11 eq	7.79E-6	5.18E-6	8.69E-7	1.38E-5	8.88E-7	2.83E-6	4.55E-8	-9.29E-6	8.31E-6
AP	mol H+ eq	1.08E+0	6.08E-1	6.50E-2	1.75E+0	2.19E-2	1.19E-1	1.09E-3	-5.36E-1	1.36E+0
EP-fw	kg P eq	5.14E-3	1.49E-4	1.42E-4	5.43E-3	3.17E-5	6.25E-4	1.41E-6	-2.41E-3	3.68E-3
EP-m	kg N eq	1.85E-1	1.54E-1	1.93E-2	3.59E-1	7.85E-3	3.47E-2	7.68E-4	-9.83E-2	3.04E-1
EP-T	mol N eq	2.10E+0	1.71E+0	2.11E-1	4.02E+0	8.65E-2	3.82E-1	4.41E-3	-1.10E+0	3.39E+0
POCP	kg NMVOC eq	9.97E-1	4.48E-1	5.87E-2	1.50E+0	2.47E-2	1.21E-1	1.73E-3	-5.08E-1	1.14E+0
ADP-mm	kg Sb eq	3.76E-3	3.24E-4	2.31E-4	4.31E-3	9.97E-5	4.69E-4	1.09E-6	-1.25E-3	3.64E-3
ADP-f	MJ	1.04E+4	3.38E+2	7.63E+1	1.08E+4	5.91E+1	3.76E+2	3.33E+0	-5.78E+3	5.48E+3
WDP	m3 depriv.	2.37E+2	7.39E-1	4.91E+1	2.87E+2	1.81E-1	7.38E+0	1.54E-2	-1.12E+2	1.82E+2
PM	disease inc.	9.25E-6	1.22E-6	1.10E-6	1.16E-5	3.48E-7	1.95E-6	2.28E-8	-4.26E-6	9.63E-6
IR	kBq U-235 eq	7.06E+0	1.44E+0	2.27E-1	8.72E+0	2.58E-1	1.13E+0	1.55E-2	-3.49E+0	6.63E+0
ETP-fw	CTUe	1.75E+3	2.46E+2	2.13E+2	2.21E+3	4.80E+1	4.27E+2	2.93E+0	-8.63E+2	1.82E+3
HTP-c	CTUh	8.59E-8	1.32E-8	8.40E-9	1.07E-7	1.71E-9	5.11E-8	8.09E-11	-4.03E-8	1.20E-7
HTP-nc	CTUh	1.91E-6	2.27E-7	2.29E-7	2.37E-6	5.72E-8	6.41E-7	1.86E-9	-9.03E-7	2.17E-6
SQP	Pt	9.14E+2	1.31E+2	1.00E+1	1.05E+3	5.06E+1	3.00E+2	8.53E+0	-2.93E+2	1.12E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.53E+2	2.95E+0	4.81E+2	7.37E+2	8.48E-1	1.85E+1	1.32E-1	-1.06E+2	6.51E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.53E+2	2.95E+0	4.81E+2	7.37E+2	8.48E-1	1.85E+1	1.32E-1	-1.06E+2	6.51E+2
PENRE	MJ	1.12E+4	3.58E+2	8.10E+1	1.16E+4	6.28E+1	4.01E+2	3.53E+0	-6.24E+3	5.84E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.12E+4	3.58E+2	8.10E+1	1.16E+4	6.28E+1	4.01E+2	3.53E+0	-6.24E+3	5.84E+3
PET	MJ	1.14E+4	3.61E+2	5.62E+2	1.23E+4	6.36E+1	4.19E+2	3.66E+0	-6.34E+3	6.49E+3
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	3.59E+0	2.57E-2	1.17E+0	4.78E+0	6.69E-3	2.18E-1	4.11E-3	-1.72E+0	3.30E+0

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.51E-3	4.97E-4	1.16E-4	2.13E-3	1.51E-4	6.13E-4	3.99E-6	-1.71E-3	1.19E-3
NHWD	kg	1.15E+1	7.89E+0	3.56E-1	1.97E+1	3.67E+0	1.86E+1	1.47E+1	-4.76E+0	5.19E+1
RWD	kg	6.32E-3	2.30E-3	3.23E-4	8.94E-3	4.02E-4	1.44E-3	2.17E-5	-3.25E-3	7.56E-3
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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