

Environmental Profile

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

Ecochain v3.5.64



Product: 3065041 - PE Pipe Cable BK/YL 90 L=100 SRS
 Unit: 1 piece
 Manufacturer: Wavin - SE - Eskilstuna

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



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.

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]

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	2.96E+2	2.53E+1	1.04E+1	3.32E+2	3.90E+0	1.33E+2	2.16E+0	-1.96E+2	2.75E+2
GWP-f	kg CO2 eq	3.00E+2	2.53E+1	7.52E+0	3.33E+2	3.90E+0	1.28E+2	2.16E+0	-1.95E+2	2.72E+2
GWP-b	kg CO2 eq	-4.08E+0	-1.70E-3	1.98E+0	-2.10E+0	2.37E-3	5.48E+0	1.62E-3	-7.39E-1	2.64E+0
GWP-luluc	kg CO2 eq	9.69E-2	1.50E-2	8.74E-1	9.86E-1	1.38E-3	2.19E-2	3.10E-5	-4.52E-2	9.64E-1
ODP	kg CFC11 eq	7.88E-6	5.24E-6	8.52E-7	1.40E-5	8.98E-7	2.86E-6	4.61E-8	-9.40E-6	8.37E-6
AP	mol H+ eq	1.09E+0	6.15E-1	6.37E-2	1.77E+0	2.22E-2	1.20E-1	1.10E-3	-5.42E-1	1.37E+0
EP-fw	kg P eq	5.20E-3	1.51E-4	1.39E-4	5.49E-3	3.21E-5	6.33E-4	1.43E-6	-2.44E-3	3.71E-3
EP-m	kg N eq	1.88E-1	1.56E-1	1.89E-2	3.62E-1	7.95E-3	3.51E-2	7.78E-4	-9.95E-2	3.07E-1
EP-T	mol N eq	2.12E+0	1.73E+0	2.07E-1	4.06E+0	8.76E-2	3.87E-1	4.46E-3	-1.11E+0	3.43E+0
POCP	kg NMVOC eq	1.01E+0	4.53E-1	5.75E-2	1.52E+0	2.50E-2	1.22E-1	1.75E-3	-5.14E-1	1.15E+0
ADP-mm	kg Sb eq	3.77E-3	3.28E-4	2.26E-4	4.32E-3	1.01E-4	4.75E-4	1.10E-6	-1.26E-3	3.64E-3
ADP-f	MJ	1.05E+4	3.42E+2	7.47E+1	1.10E+4	5.98E+1	3.81E+2	3.37E+0	-5.85E+3	5.54E+3
WDP	m3 depriv.	2.39E+2	7.48E-1	4.82E+1	2.88E+2	1.84E-1	7.47E+0	1.56E-2	-1.14E+2	1.82E+2
PM	disease inc.	9.35E-6	1.24E-6	1.07E-6	1.17E-5	3.52E-7	1.98E-6	2.31E-8	-4.31E-6	9.70E-6
IR	kBq U-235 eq	7.14E+0	1.45E+0	2.22E-1	8.81E+0	2.62E-1	1.15E+0	1.57E-2	-3.54E+0	6.70E+0
ETP-fw	CTUe	1.77E+3	2.49E+2	2.08E+2	2.22E+3	4.86E+1	4.32E+2	2.97E+0	-8.73E+2	1.83E+3
HTP-c	CTUh	8.67E-8	1.33E-8	8.23E-9	1.08E-7	1.73E-9	5.17E-8	8.18E-11	-4.07E-8	1.21E-7
HTP-nc	CTUh	1.93E-6	2.30E-7	2.24E-7	2.39E-6	5.79E-8	6.49E-7	1.89E-9	-9.14E-7	2.18E-6
SQP	Pt	9.16E+2	1.32E+2	9.83E+0	1.06E+3	5.12E+1	3.04E+2	8.63E+0	-2.95E+2	1.13E+3
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	2.55E+2	2.98E+0	4.71E+2	7.30E+2	8.59E-1	1.88E+1	1.33E-1	-1.07E+2	6.43E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	2.55E+2	2.98E+0	4.71E+2	7.30E+2	8.59E-1	1.88E+1	1.33E-1	-1.07E+2	6.43E+2
PENRE	MJ	1.13E+4	3.63E+2	7.94E+1	1.17E+4	6.35E+1	4.05E+2	3.57E+0	-6.31E+3	5.90E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	1.13E+4	3.63E+2	7.94E+1	1.17E+4	6.35E+1	4.05E+2	3.57E+0	-6.31E+3	5.90E+3
PET	MJ	1.16E+4	3.66E+2	5.51E+2	1.25E+4	6.44E+1	4.24E+2	3.70E+0	-6.42E+3	6.55E+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	3.63E+0	2.60E-2	1.14E+0	4.80E+0	6.77E-3	2.20E-1	4.16E-3	-1.74E+0	3.30E+0

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	1.53E-3	5.03E-4	1.14E-4	2.14E-3	1.53E-4	6.20E-4	4.04E-6	-1.73E-3	1.19E-3
NHWD	kg	1.15E+1	7.99E+0	3.49E-1	1.99E+1	3.71E+0	1.88E+1	1.48E+1	-4.81E+0	5.24E+1
RWD	kg	6.39E-3	2.33E-3	3.16E-4	9.04E-3	4.07E-4	1.45E-3	2.20E-5	-3.29E-3	7.63E-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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