

Environmental Profile

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

Ecochain v3.5.64



Product: 3064208 - PE Pipe Cable BK/YL 160 SDR17 L=12 Drill
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					Use stage							End-of-Life stage				
A1 Raw material supply A2 Transport A3 Manufacturing					B1 Use B2 Maintenance B3 Repair B4 Replacement B5 Refurbishment B6 Operational energy use B7 Operational water use							C1 De-construction demolition C2 Transport C3 Waste processing C4 Disposal				
Construction process stage					Benefits and loads beyond the system boundaries											
A4 Transport gate to site A5 Assembly / Construction installation process					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

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Results

Environmental impact	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
GWP-total	kg CO2 eq	1.12E+2	9.36E+0	3.88E+0	1.25E+2	1.44E+0	4.74E+1	7.99E-1	-7.26E+1	1.02E+2
GWP-f	kg CO2 eq	1.11E+2	9.35E+0	2.81E+0	1.23E+2	1.44E+0	4.75E+1	7.99E-1	-7.24E+1	1.01E+2
GWP-b	kg CO2 eq	5.70E-1	-6.33E-4	7.40E-1	1.31E+0	8.75E-4	-5.77E-2	6.00E-4	-2.73E-1	9.80E-1
GWP-luluc	kg CO2 eq	3.50E-2	5.53E-3	3.27E-1	3.67E-1	5.10E-4	8.10E-3	1.15E-5	-1.64E-2	3.60E-1
ODP	kg CFC11 eq	2.89E-6	1.93E-6	3.19E-7	5.14E-6	3.32E-7	1.06E-6	1.70E-8	-3.49E-6	3.06E-6
AP	mol H+ eq	4.04E-1	2.27E-1	2.38E-2	6.55E-1	8.21E-3	4.44E-2	4.07E-4	-2.00E-1	5.08E-1
EP-fw	kg P eq	1.92E-3	5.56E-5	5.19E-5	2.03E-3	1.19E-5	2.34E-4	5.28E-7	-8.98E-4	1.38E-3
EP-m	kg N eq	6.90E-2	5.76E-2	7.06E-3	1.34E-1	2.94E-3	1.29E-2	2.87E-4	-3.65E-2	1.13E-1
EP-T	mol N eq	7.79E-1	6.40E-1	7.74E-2	1.50E+0	3.24E-2	1.42E-1	1.65E-3	-4.07E-1	1.27E+0
POCP	kg NMVOC eq	3.72E-1	1.68E-1	2.15E-2	5.61E-1	9.26E-3	4.49E-2	6.47E-4	-1.89E-1	4.27E-1
ADP-mm	kg Sb eq	1.39E-3	1.21E-4	8.46E-5	1.60E-3	3.73E-5	1.75E-4	4.08E-7	-4.66E-4	1.35E-3
ADP-f	MJ	3.90E+3	1.26E+2	2.79E+1	4.06E+3	2.21E+1	1.41E+2	1.24E+0	-2.17E+3	2.05E+3
WDP	m3 depriv.	8.86E+1	2.76E-1	1.80E+1	1.07E+2	6.79E-2	2.76E+0	5.75E-3	-4.20E+1	6.77E+1
PM	disease inc.	3.36E-6	4.57E-7	4.02E-7	4.22E-6	1.30E-7	7.30E-7	8.55E-9	-1.58E-6	3.51E-6
IR	kBq U-235 eq	2.63E+0	5.37E-1	8.31E-2	3.25E+0	9.67E-2	4.24E-1	5.80E-3	-1.31E+0	2.47E+0
ETP-fw	CTUe	6.49E+2	9.20E+1	7.79E+1	8.19E+2	1.80E+1	1.60E+2	1.10E+0	-3.14E+2	6.83E+2
HTP-c	CTUh	3.14E-8	4.92E-9	3.08E-9	3.94E-8	6.39E-10	1.90E-8	3.03E-11	-1.50E-8	4.41E-8
HTP-nc	CTUh	7.09E-7	8.49E-8	8.39E-8	8.78E-7	2.14E-8	2.40E-7	6.98E-10	-3.34E-7	8.06E-7
SQP	Pt	1.51E+2	4.88E+1	3.67E+0	2.04E+2	1.89E+1	1.12E+2	3.19E+0	-6.87E+1	2.69E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	6.64E+1	1.10E+0	1.76E+2	2.44E+2	3.17E-1	6.94E+0	4.92E-2	-3.13E+1	2.20E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	6.64E+1	1.10E+0	1.76E+2	2.44E+2	3.17E-1	6.94E+0	4.92E-2	-3.13E+1	2.20E+2
PENRE	MJ	4.19E+3	1.34E+2	2.97E+1	4.35E+3	2.35E+1	1.50E+2	1.32E+0	-2.34E+3	2.19E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	4.19E+3	1.34E+2	2.97E+1	4.35E+3	2.35E+1	1.50E+2	1.32E+0	-2.34E+3	2.19E+3
PET	MJ	4.25E+3	1.35E+2	2.06E+2	4.59E+3	2.38E+1	1.57E+2	1.37E+0	-2.37E+3	2.41E+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	1.34E+0	9.59E-3	4.28E-1	1.78E+0	2.50E-3	8.13E-2	1.54E-3	-6.42E-1	1.22E+0

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	5.57E-4	1.86E-4	4.25E-5	7.85E-4	5.66E-5	2.29E-4	1.49E-6	-6.41E-4	4.31E-4
NHWD	kg	4.21E+0	2.94E+0	1.30E-1	7.29E+0	1.37E+0	6.93E+0	5.48E+0	-1.76E+0	1.93E+1
RWD	kg	2.35E-3	8.61E-4	1.18E-4	3.33E-3	1.50E-4	5.37E-4	8.14E-6	-1.21E-3	2.81E-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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