

Environmental Profile

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

Ecochain v3.5.64



Product: 3071752 - PE Pipe Cable RD 110 SRN DVR THR SN8 50M
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	7.42E+1	6.10E+0	2.57E+0	8.29E+1	9.48E-1	3.08E+1	5.24E-1	-4.79E+1	6.73E+1
GWP-f	kg CO2 eq	7.38E+1	6.10E+0	1.87E+0	8.17E+1	9.47E-1	3.08E+1	5.24E-1	-4.77E+1	6.64E+1
GWP-b	kg CO2 eq	4.57E-1	-4.08E-4	4.91E-1	9.47E-1	5.75E-4	-3.82E-2	3.93E-4	-2.12E-1	6.98E-1
GWP-luluc	kg CO2 eq	2.86E-2	3.60E-3	2.17E-1	2.49E-1	3.35E-4	5.33E-3	7.63E-6	-1.30E-2	2.42E-1
ODP	kg CFC11 eq	1.94E-6	1.26E-6	2.11E-7	3.42E-6	2.18E-7	6.95E-7	1.12E-8	-2.24E-6	2.10E-6
AP	mol H+ eq	2.76E-1	1.48E-1	1.58E-2	4.40E-1	5.40E-3	2.92E-2	2.68E-4	-1.35E-1	3.40E-1
EP-fw	kg P eq	1.54E-3	3.63E-5	3.44E-5	1.61E-3	7.79E-6	1.54E-4	3.50E-7	-7.13E-4	1.06E-3
EP-m	kg N eq	4.70E-2	3.75E-2	4.68E-3	8.92E-2	1.93E-3	8.49E-3	1.88E-4	-2.46E-2	7.52E-2
EP-T	mol N eq	5.31E-1	4.17E-1	5.14E-2	9.99E-1	2.13E-2	9.35E-2	1.09E-3	-2.73E-1	8.42E-1
POCP	kg NMVOC eq	2.70E-1	1.09E-1	1.43E-2	3.94E-1	6.08E-3	2.95E-2	4.25E-4	-1.37E-1	2.93E-1
ADP-mm	kg Sb eq	1.01E-3	7.90E-5	5.61E-5	1.14E-3	2.45E-5	1.16E-4	2.69E-7	-3.07E-4	9.74E-4
ADP-f	MJ	2.56E+3	8.23E+1	1.85E+1	2.66E+3	1.45E+1	9.25E+1	8.18E-1	-1.43E+3	1.34E+3
WDP	m3 depriv.	6.72E+1	1.80E-1	1.19E+1	7.93E+1	4.46E-2	1.81E+0	4.09E-3	-3.18E+1	4.93E+1
PM	disease inc.	2.24E-6	2.98E-7	2.67E-7	2.81E-6	8.55E-8	4.80E-7	5.62E-9	-1.04E-6	2.34E-6
IR	kBq U-235 eq	2.12E+0	3.50E-1	5.51E-2	2.52E+0	6.35E-2	2.79E-1	3.81E-3	-1.02E+0	1.84E+0
ETP-fw	CTUe	4.69E+2	6.00E+1	5.17E+1	5.81E+2	1.18E+1	1.05E+2	7.21E-1	-2.18E+2	4.80E+2
HTP-c	CTUh	2.37E-8	3.21E-9	2.04E-9	2.89E-8	4.20E-10	1.26E-8	2.01E-11	-9.58E-9	3.24E-8
HTP-nc	CTUh	5.30E-7	5.54E-8	5.56E-8	6.41E-7	1.41E-8	1.58E-7	4.60E-10	-1.97E-7	6.17E-7
SQP	Pt	1.10E+2	3.19E+1	2.44E+0	1.45E+2	1.24E+1	7.39E+1	2.10E+0	-4.89E+1	1.84E+2
Resource use	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
PERE	MJ	5.16E+1	7.18E-1	1.17E+2	1.69E+2	2.09E-1	4.57E+0	3.22E-2	-2.40E+1	1.50E+2
PERM	MJ	0	0	0	0	0	0	0	0	0
PERT	MJ	5.16E+1	7.18E-1	1.17E+2	1.69E+2	2.09E-1	4.57E+0	3.22E-2	-2.40E+1	1.50E+2
PENRE	MJ	2.75E+3	8.73E+1	1.97E+1	2.86E+3	1.54E+1	9.85E+1	8.68E-1	-1.54E+3	1.43E+3
PENRM	MJ	0	0	0	0	0	0	0	0	0
PENRT	MJ	2.75E+3	8.73E+1	1.97E+1	2.86E+3	1.54E+1	9.85E+1	8.68E-1	-1.54E+3	1.43E+3
PET	MJ	2.80E+3	8.81E+1	1.37E+2	3.03E+3	1.56E+1	1.03E+2	9.00E-1	-1.57E+3	1.58E+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	9.99E-1	6.26E-3	2.84E-1	1.29E+0	1.65E-3	5.34E-2	1.01E-3	-4.73E-1	8.72E-1

Output flows and waste categories	Unit	A1	A2	A3	A1-A3	C2	C3	C4	D	Total
HWD	kg	3.85E-4	1.21E-4	2.82E-5	5.35E-4	3.72E-5	1.51E-4	9.85E-7	-4.29E-4	2.94E-4
NHWD	kg	3.15E+0	1.92E+0	8.65E-2	5.16E+0	9.01E-1	4.55E+0	3.60E+0	-1.24E+0	1.30E+1
RWD	kg	1.84E-3	5.61E-4	7.84E-5	2.48E-3	9.89E-5	3.53E-4	5.35E-6	-9.19E-4	2.01E-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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