Environmental Product Declaration

Prysmian Low Voltage Aluminum Tray Cable

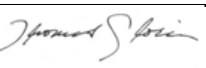
STABILOY® Brand Tray Cable, UL Type TC-ER, Multi-Conductor, 600V

Prysmian's Low Voltage Aluminum Tray Cable line consists of STABILOY® Brand UL Type TC-ER. Our high-quality aluminum tray cable is manufactured in the U.S. and delivers long-term, reliable performance in many building applications.

With 150 years of experience in over 50 countries around the globe, Prysmian is the world leader in the energy and telecom cable industry. Prysmian offers the broadest range of services and know-how in the industry. Each year, Prysmian manufactures thousands of miles of underground and submarine cables and systems for power transmission and distribution, as well as medium and low voltage cables for the construction and infrastructure sectors. The company produces a comprehensive range of optical fibers, copper cables, and connectivity systems for voice, video, and data transmission for the telecommunication sector.

Prysmian is a leader in the industry and a pioneer in sustainability initiatives. The company has adopted a science-based approach and adheres to EPA standards to achieve net-zero emission targets for Scope 1 and 2 by 2035 and Scope 3 by 2050.

This declaration is an environmental product declaration (EPD) in accordance with ISO 14025 and EN 15804+A2. EPDs rely on Life Cycle Assessment (LCA) to provide information on a number of environmental impacts of products over their life cycle. Exclusions: EPDs do not indicate that any environmental or social performance benchmarks are met, and there may be impacts that they do not encompass. LCAs do not typically address the site-specific environmental impacts of raw material extraction, nor are they meant to assess human health toxicity. EPDs can complement but cannot replace tools and certifications that are designed to address these impacts and/or set performance thresholds – e.g. Type 1 certifications, health assessments and declarations, environmental impact assessments, etc. Accuracy of Results: EPDs regularly rely on estimations of impacts, and the level of accuracy in estimation of effect differs for any particular product line and reported impact. Comparability: EPDs are not comparative assertions and are either not comparable or have limited comparability when they cover different life cycle stages, are based on different product category rules or are missing relevant environmental impacts. EPDs from different programs may not be comparable.

EPD PROGRAM AND PROGRAM OPERATOR NAME, ADDRESS, LOGO, AND WEBSITE	ASTM International 100 Barr Harbor Drive West Conshohocken, PA 19428
GENERAL PROGRAM INSTRUCTIONS AND VERSION NUMBER	ASTM General Program Instructions. Version 8.0. April 29, 2020.
MANUFACTURER NAME AND ADDRESS	Prysmian Group 4 Tesseneer Road Highland Heights, KY 41076
DECLARATION NUMBER	EPD842
DECLARED PRODUCT & FUNCTIONAL UNIT OF DECLARED UNIT	Prysmian Low Voltage Aluminum Tray Cable Functional Unit = To transmit energy expressed for 1A over a distance of 1km during 40 years and a 100% use rate, in accordance with the relevant standards shown in the product technical data sheets. Lifetime and use rate correspond to the application of energy distribution network as defined in the table given in Appendix 6.1. of the specific rules for wire, cables and accessories. over a 75 year building lifetime
REFERENCE PCR AND VERSION NUMBER	Product Category Rules for Electrical, Electronic and HVAC-R Products, v4.0, 2021. PEP ecopassport Program: Product Specific Rules for Wires, Cables and Accessories, v4.0, 2022.
DESCRIPTION OF PRODUCT APPLICATION/USE	These Prysmian cable products are primarily used in building applications.
PRODUCT REFERENCE SERVICE LIFE (RSL) DESCRIPTION	40 Years
MARKETS OF APPLICABILITY	North America
DATE OF ISSUE	December 13, 2024
PERIOD OF VALIDITY	5 Years
EPD TYPE	Product Specific
DATASET VARIABILITY	N/A
EPD SCOPE	Cradle-to-Grave
YEAR(S) OF REPORTED PRIMARY DATA	2023
LCA SOFTWARE & VERSION NUMBER	LCA for Experts v10.7.0.183
LCI DATABASE(S) & VERSION NUMBER	Sphera Managed Content & USLCI v2.0
LCIA METHODOLOGY & VERSION NUMBER	TRACI 2.1; CML 4.1
The sub-category PCR review was conducted by:	
This declaration was independently verified in accordance with ISO 14025: 2006. The "PEP ecopassport Program: Product Category Rules for Electrical, Electronic and HVAC-R Products, v4.0, 2021." based on EN 15804:2012+A2:2019, serves as the core PCR. The supporting PSR is the "PEP ecopassport Program: Product Specific Rules for Wires, Cables and Accessories, v4.0, 2022." ☐ INTERNAL ☒ EXTERNAL	 Timothy S Brooke
This life cycle assessment was conducted in accordance with ISO 14044 and the reference PCR by:	
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:	Thomas P Gloria, Ph. D Industrial Ecology Consultants

Environmental declarations from different programs (ISO 14025) may not be comparable.
Comparison of the environmental performance using EPD information shall consider all relevant information modules over the full life cycle of the products within the building.
This PCR allows EPD comparability only when the same functional requirements between products are ensured and the requirements of EN 15804:2012+A2:2019 are met. It should be noted that different LCA software and background LCI datasets may lead to differences results for upstream or downstream of the life cycle stages declared.

General Information

Description of Company/Organization

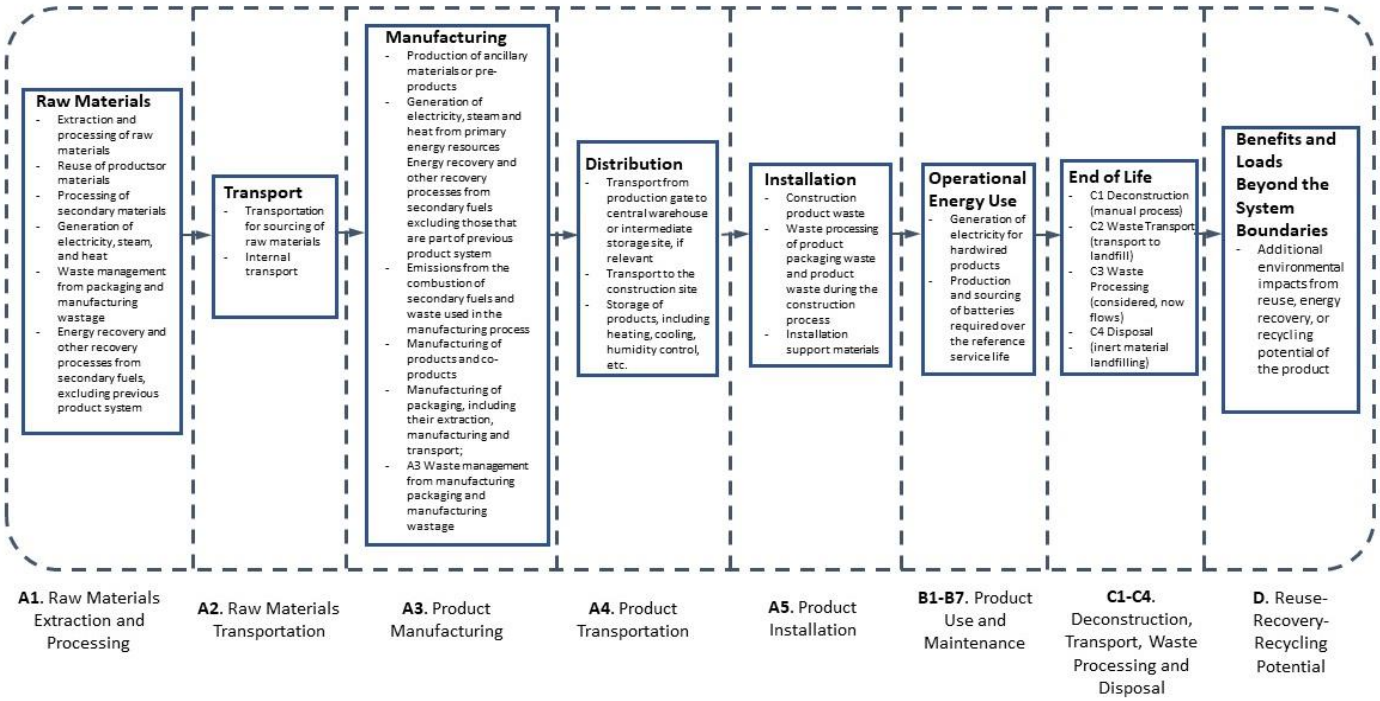
Prysmian, a global provider of cabling solutions, is leading the charge in the energy transition and digital transformation. With 150 years of experience in over 50 countries around the globe, the company's business strategy is a testament to its understanding of market dynamics, focusing on the development of resilient, high-performing, sustainable, and innovative cable solutions across the Transmission, Power Grid, Electrification, and Digital Solutions segments.

Product Description

Prysmian's **STABILOY® Brand Tray Cable** is made with STABILOY® Brand AA-8000 aluminum alloy conductors which are lightweight and provide increased flexibility for easy installation. The conductor is insulated with Flame-retardant Cross-linked Polyethylene (XLPE) and heat-, moisture- and sunlight-resistant Polyvinyl Chloride (PVC). Additional features include:

- Oil Resistant PRI/PRII
- Gas and Oil Res GRI/GRII
- For direct burial
- Excellent electrical, thermal and physical properties
- Resistant to crush, compression cuts and heat deformation
- Meets cold bend and cold impact tests at -25˚C

Flow Diagram



Manufacturer Specific EPD

This product-specific EPD was developed based on the cradle-to-grave (modules A1-D) life cycle assessment. The EPD accounts for raw material extraction and processing, transport, product manufacturing, distribution, installation, use, maintenance, disposal, and potential benefits and loads following the end of life disposal. Manufacturing data were gathered directly from company personnel. For EPDs with product groups, an impact assessment was completed for each product and the highest impacts were reported as representations of the product group. The rest of the products in each group are represented through scaling factor tables and can be independently calculated.

Application

Prysmian's STABILOY® Brand Tray Cable is used to supply power to motors and other electrical devices. Installed in cable trays, raceways or outdoor location where supported by a messenger wire. Approved for direct burial and for use in Class I and II, Division 2 hazardous locations per NEC® Article 500. Rated 600 volt at temperature not to exceed 90°C for wet or dry locations.

Material Composition

The primary product components and/or materials must be indicated as a percentage mass to enable the user of the EPD to understand the composition of the product in delivery status.

The average composition of a Prysmian cable is as follows:

	Percentage in mass (%)
Material	**Maximum**
Colorant	0.42%
Conductor	70.24%
Insulation	10.05%
Cable Fillers	4.40%
Jacketing	14.54%
Tape	0.35%
Other	0.00%
Total	100.00%

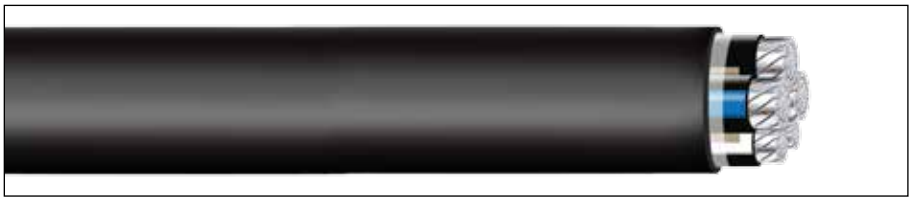
Technical Details

For the declared product, the following technical data in the delivery status must be provided with reference to the test standard:

Technical Data	
General Specifications	
Conductor	6 AWG thru 2 AWG Class B compact stranded aluminum alloy (8000 Series) per ASTM B800 and ASTM B801 1 AWG thru 350 kcmil compact stranded SIW aluminum alloy (8000 Series) per ASTM B800, ASTM B801 and ASTM B836 400 kcmil thru 900 kcmil Class B compact stranded aluminum alloy (8000 Series) per ASTM B800 and ASTM B801
Insulation	Flame-retardant Cross-linked Polyethylene (XLPE)
Jacketing	Heat-, moisture- and sunlight-resistant Polyvinyl Chloride (PVC) applied over a taped assembly

STABILOY® Brand Tray Cable

XLPE, Low-Voltage Power
600 V, UL Type TC-ER, Multi-Conductor, Aluminum



COND. SIZE (AWG/kcmil)	GROUND SIZE	MIN. AVG. INSULATION THICKNESS		ASSEMBLY DIAMETER UNDER JACKET		JACKET THICKNESS		DIAMETER OVER JACKET		ALUMINUM CONDUCTOR WEIGHT		NET WEIGHT	
		IN	mm	IN	mm	IN	mm	IN	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
THREE CONDUCTORS WITH GROUND													
6*	6	0.045	1.14	0.61	15.5	0.060	1.5	0.735	18.7	99	147	225	335
4*	6	0.045	1.14	0.68	17.3	0.080	2.0	0.805	20.4	143	213	288	429
2*	6	0.045	1.14	0.77	19.6	0.080	2.0	0.937	23.8	212	315	414	616
1*	4	0.055	1.40	0.90	22.9	0.080	2.0	1.063	27.0	276	411	529	787
1/0*	4	0.055	1.40	0.96	24.4	0.080	2.0	1.129	28.7	337	502	616	917
2/0*	4	0.055	1.40	1.04	26.4	0.080	2.0	1.208	30.7	415	618	720	1071
3/0*	4	0.055	1.40	1.14	29.0	0.080	2.0	1.310	33.3	513	763	853	1269
4/0*	2	0.055	1.40	1.25	31.8	0.080	2.0	1.416	36.0	660	982	1032	1536
250*	2	0.065	1.65	1.39	35.3	0.080	2.0	1.554	39.5	768	1143	1209	1799
300*	2	0.065	1.65	1.50	38.1	0.080	2.0	1.666	42.3	910	1354	1393	2073
350*	2	0.065	1.65	1.59	40.4	1.110	28.2	1.814	46.1	1051	1564	1671	2487
400*	1	0.065	1.65	1.70	43.2	1.110	28.2	1.926	48.9	1208	1798	1856	2762
500*	1	0.065	1.65	1.87	47.5	1.110	28.2	2.092	53.1	1491	2219	2212	3292
600*	1	0.080	2.03	2.10	53.3	1.110	28.2	2.323	59.0	1773	2639	2641	3930
700*	1/0	0.080	2.03	2.23	56.6	1.110	28.2	2.461	62.5	2076	3089	3013	4484
750*	1/0	0.080	2.03	2.30	58.4	1.110	28.2	2.527	64.2	2217	3299	3176	4726
900*	250	0.080	2.03	2.50	58.4	1.110	28.2	2.723	69.2	2777	4133	3828	5697
FOUR CONDUCTORS WITH GROUND													
6*	6	0.045	1.14	0.63	16.0	0.06	1.5	0.760	19.3	123	183	270	402
4*	6	0.045	1.14	0.74	18.8	0.06	1.5	0.902	22.9	182	271	387	576
2*	6	0.045	1.14	0.84	21.3	0.08	2.0	1.007	25.6	275	409	509	757
1*	4	0.055	1.40	0.98	24.9	0.08	2.0	1.140	29.0	354	527	654	973
1/0*	4	0.055	1.40	1.05	26.7	0.08	2.0	1.218	30.9	437	650	767	1141
2/0*	4	0.055	1.40	1.12	28.4	0.08	2.0	1.287	32.7	540	804	899	1338
3/0*	4	0.055	1.40	1.28	32.5	0.08	2.0	1.448	36.8	671	999	1082	1610
4/0*	2	0.055	1.40	1.36	34.5	0.08	2.0	1.523	38.7	859	1278	1301	1936
250*	1	0.065	1.65	1.51	38.4	0.11	2.8	1.732	44.0	1020	1518	1641	2442
300*	1	0.065	1.65	1.61	40.9	0.11	2.8	1.831	46.5	1208	1798	1882	2801
350*	1/0	0.065	1.65	1.56	39.6	0.11	2.8	1.780	45.2	1417	2109	2117	3150
400*	1/0	0.065	1.65	1.86	47.2	0.11	2.8	2.087	53.0	1605	2389	2371	3528
500*	2/0	0.065	1.65	2.04	51.8	0.11	2.8	2.227	56.6	2008	2988	2860	4256
600*	2/0	0.080	2.03	2.35	59.7	0.11	2.8	2.575	65.4	2384	3548	3440	5119
700*	2/0	0.080	2.03	2.50	63.5	0.11	2.8	2.730	69.3	2761	4109	3904	5810
750*	3/0	0.080	2.03	2.58	65.5	0.14	3.6	2.864	72.7	2982	4438	4309	6412

Dimensions and weights are nominal; subject to industry tolerances.
* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

Product Construction:

Conductor:
- 6 AWG thru 2 AWG Class B compact stranded aluminum alloy (8000 Series) per ASTM B800 and ASTM B801
- 1 AWG thru 350 kcmil compact stranded SIW aluminum alloy (8000 Series) per ASTM B800, ASTM B801 and ASTM B836
- 400 kcmil thru 900 kcmil Class B compact stranded aluminum alloy (8000 Series) per ASTM B800 and ASTM B801

Insulation:
- Flame-retardant Cross-linked Polyethylene (XLPE)

Jacket:
- Heat-, moisture- and sunlight-resistant Polyvinyl Chloride (PVC) applied over a taped assembly

Markings/Print:
Phase conductor print:
- GENERAL CABLE® SIZE (AWG OR KCMIL) (MM^2) COMPACT STABILOY® AA-8030 AL XLPE 600 V XHHW-2 SUN RES (UL) YEAR DATE (TIME OF MFG) SEQUENTIAL FOOTAGE

Jacketed print:
- GENERAL CABLE (PLT. OF MFG.) STABILOY® AA-8030 AL TYPE TC-ER XHHW-2 90°C WET OR DRY 600 V (# OF CDRS) SIZE (AWG OR KCMIL) (MM^2) (# OF CDR) SIZE (AWG OR KCMIL) (MM^2) JACKET SUN RES DIR BUR (UL) YEAR DATE (TIME OF MFG) SEQUENTIAL FOOTAGE

Options:
- Other sizes and stranding options available upon request
- Custom constructions and oversize neutrals upon request

Applications:
- "Type TC-ER" is used to supply power to motors and other electrical devices
- Installed in cable trays, raceways or outdoor location where supported by a messenger wire
- Approved for direct burial and for use in Class I and II, Division 2 hazardous locations per NEC® Article 500
- Rated 600 volt at temperature not to exceed 90°C for wet or dry locations

Features:
- Oil Resistant PRI/PRII conductors
- Gas and Oil Res GRI/GRII conductors
- UV/sunlight-resistant, moisture-resistant and flame-retardant PVC jacket suitable for direct burial
- Excellent electrical, thermal and physical properties
- Resistant to crush, compression cuts and heat deformation
- STABILOY® Brand AA-8000 aluminum alloy conductors are lightweight and provide increased flexibility for easy installation
- Meets cold bend and cold impact tests at -25°C

Compliances:
Industry Compliances:
- UL 1277 Type TC Power and Control Cables, UL File # E179238
- UL 44 Type XHHW-2, UL File # E39406
- National Electrical Code (NEC®)

Flame Test Compliances:
- UL 2556 Horizontal Burn
- UL 2556 FT4/IEEE 1202

Other Compliances:
- OSHA Acceptable
- RoHS Compliant

Packaging:
- Material cut to length and shipped on non-returnable wood reels

STABILOY BRAND

RoHS Compliant Directive 2011/65/EU

General Cable

Placing on the Market / Application Rules

The standards that can be applied for STABILOY® Brand Tray Cable are:
- ASTM B800, ASTM B801, ASTM B836
- UL 1277 Type TC Power and Control Cables
- UL 44 Type XHHW-2
- National Electrical Code (NEC®)
- UL 2556 Horizontal Burn
- UL 2556 FT4/IEEE 1202

Properties of Declared Product as Shipped

Prysmian's Low Voltage Aluminum Tray Cables are cut on standard lengths, packed in no-returnable coils and delivered as a complete product.

Methodological Framework

Name	Value	Unit
Functional unit	To transmit energy expressed for 1A over a distance of 1km during 40 years and a 100% use rate, in accordance with the relevant standards shown in the product technical data sheets. Lifetime and use rate correspond to the application of energy distribution network as defined in the table given in Appendix 6.1. of the specific rules for wire, cables and accessories.	
Maximum Mass	5601	kg
Conversion factor to 1 kg	1.8E-04	-

System Boundary

This is a cradle to grave Environmental Product Declaration. The following life cycle phases were considered:

Product Stage			Construction Process Stage		Use Stage							End of Life Stage*				Benefits and Loads Beyond the System Boundaries
Raw material supply	Transport	Manufacturing	Transport from gate to the site	Construction/ installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction /demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Description of the System Boundary Stages Corresponding to the PCR

(X = Included; MND = Module Not Declared)

*This includes provision of all materials, products and energy, packaging processing and its transport, as well as waste processing up to the end-of waste state or disposal of final residues.

Reference Service Life

The reference service life of a properly installed Prysmian STABILOY® Aluminum Tray Cable 750 kcmil, 3-Conductor with 2/0 AWG, 3-Conductor Drain Wires cable is 40 years.

Allocation

Allocation of manufacturing was determined by mass, in kilogram per kilometer.

Cut-off Criteria

Processes whose total contribution to the final result, with respect to their mass and in relation to all considered impact categories, is less than 1% can be neglected. The sum of the neglected processes may not exceed 5% by mass of the considered impact categories. For that a documented assumption is admissible.

For Hazardous Substances the following requirements apply:

- The Life Cycle Inventory (LCI) of hazardous substances will be included, if the inventory is available.
- If the LCI for a hazardous substance is not available, the substance will appear as an input in the LCI of the product, if its mass represents more than 0.1% of the product composition.
- If the LCI of a hazardous substance is approximated by modeling another substance, documentation will be provided.

This EPD is in compliance with the cut-off criteria. No processes were neglected or excluded. Capital items for the production processes (machine, buildings, etc.) were not taken into consideration.

Data Sources

Primary data were collected for every process in the product system under the control of Prysmian. Secondary data from the Sphera database were utilized when necessary. These data were evaluated and have temporal, geographic, and technical coverage appropriate to the scope of the product category.

Data Quality

The data sources used are complete and representative of global systems in terms of the geographic and technological coverage and are a recent vintage (i.e. less than ten years old). The data used for primary data are based on direct information sources of the manufacturers. Secondary data sets were used for raw materials extraction and processing, end of life, transportation, and energy production flows. Wherever secondary data is used, the study adopts critically reviewed data for consistency, precision, and reproducibility to limit uncertainty.

Period Under Review

The period under review is the full calendar year of 2023.

Treatment of Biogenic Carbon

The uptake and release of biogenic carbon throughout the product life cycle follows EN15805+A2 Section 6.4.4.

Comparability and Benchmarking

A comparison or an evaluation of EPD data is only possible if all data sets to be compared were created according to EN 15804+A2 and the building context, respectively the product-specific characteristics of performance, are taken into account. Environmental declarations from different programs may not be comparable. Full conformance with the PCR allows for EPD comparability only when all stages a product's life cycle have been considered. However, variations and deviations are possible.

Estimates and Assumptions

End of Life
In the End of Life phase, aluminum is assumed to have a 70% recycling rate in accordance with the PEP PCR.

Units

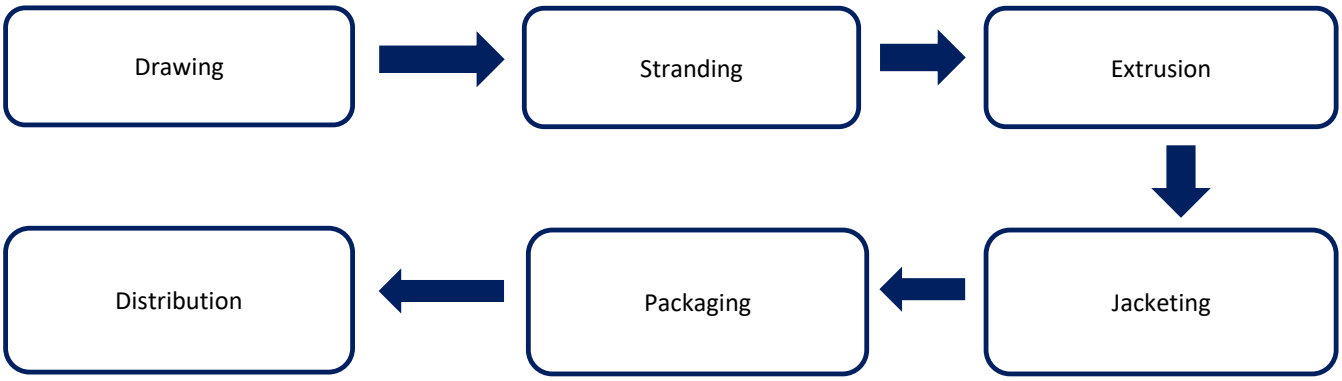
The LCA results within this EPD are reported in SI units.

Background data

For life cycle modeling of the considered products, the LCA for Experts Software System for Life Cycle Engineering, developed by Sphera, is used. The Sphera database contains consistent and documented datasets which are documented online. To ensure comparability of results in the LCA, the basic data of the Sphera database were used for energy, transportation, and auxiliary materials.

Manufacturing

This study includes the impacts from five of Prysmian's manufacturing facilities which produce building wire. Conductor materials come either pre-drawn or go through a drawing process at the manufacturing site. The conductor then goes through a stranding process. Jacketing is extruded to size and applied to cables as appropriate along with any insulation or additional cable components. The cables are packaged on reels and sent to customer.



Packaging

All packaging is fully recyclable. The packaging material is composed primarily of wooden or steel reels.

	Quantity (% By Weight)
Material	**Maximum**
Paper	0.00%
Metal	0.00%
Plastic	0.00%
Wood	100.00%
Total	100.00%

Transportation

Transport to Building Site (A4)		
Name	**Max**	**Unit**
Fuel type	Diesel	
Liters of fuel	38	l/100km
Transport distance	800	km
Capacity utilization (including empty runs)	85	%
Gross density of products transported	-	kg/m^3
Weight of products transported	5601	kg
Volume of products transported	-	m^3

Product Installation

Prysmian has established guidelines in HSE for installation processes, beginning with the development of a HSE plan. The HSE plan will be developed with specific site Environmental and Health concerns that might arise during installation process. Management and installation team will all be trained on the HSE plan prior to installation.

Installation into the building (A5)		
Name	**Max**	**Unit**
Water consumption	-	m^3
Other energy carriers	-	MJ
Product loss per functional unit	2.80E+02	kg
Waste materials at construction site	2.86E+02	kg
Output substance (recycle)	1.38E+02	kg
Output substance (landfill)	1.42E+02	kg
Output substance (incineration)	0.00E+00	kg
Packaging waste (recycle)	0.00E+00	kg
Packaging waste (landfill)	3.12E+00	kg
Packaging waste (incineration)	3.12E+00	kg
Direct emissions to ambient air*, soil, and water	1.03E+01	kg CO_2
VOC emissions	-	kg

*CO2 emissions to air from disposal of packaging

Reference Service Life		
Name	**Value**	**Unit**
Reference Service Life	40	years
Replacements	0	-

Product Use

No cleaning, maintenance, repair, or refurbishment is required.

Operational energy use was modeled as use phase losses determined by the IEC 61156-5 standard. The maximum loss values for each cable category are detailed in the table below and were used in the B6 stage.

The operational energy use is presented under the assumption that the cable experiences a current of 1 Amp, but certain Prysmian products have an E3X coating that results in an energy saving effect at higher amperages. It is assumed that the use of E3X will reduce energy losses by 5%. The equation used to calculate the use phase is:

$$E = Z * I^2 * \Delta t$$

Where:

Z = linear resistivity of the cable in Ω/km, provided by Prysmian
L = current in A, assumption is 1 A
Δt = use time in seconds, assumption is 40 years

Operational Energy Use (B6)		
Name	**Max**	**Unit per RSL**
Water consumption (from tap, to sewer)	-	m^3
Electricity consumption	10.20	kWh
Other energy carriers	-	MJ
Equipment output	-	kW
Direct emissions to ambient air, soil, and water	-	kg

Disposal

The product can be mechanically dissembled to separate the different materials. The majority of components are disposed of through recycling, incineration, or landfill, in accordance with the PCR.

End of life (C1-C4)		
Name	**Max**	**Unit**
Collected separately	2.75E+03	kg
Collected as mixed construction waste	2.85E+03	kg
Reuse	0.00E+00	kg
Recycling	2.75E+03	kg
Landfilling	2.85E+03	kg
Incineration with energy recovery	0.00E+00	kg
Removals of biogenic carbon	-	kg

Re-use Phase

Re-use of the product is not common, but a large amount of the metals in this material will be recycled.

Re-Use, recovery, And/Or Recycling Potential (D)		
Name	**Max**	**Unit**
Net energy benefit from energy recovery from waste treatment declared as exported energy in C3 (R>0.6)	0.00	MJ
Net energy benefit from thermal energy due to treatment of waste declared as exported energy in C4 (R<0.6)	0.00	MJ
Net energy benefit from material flow declared in C3 for energy recovery	0.00	MJ
Process and conversion efficiencies	-	
Further assumptions for scenario development (e.g. further processing technologies, assumptions on correction factors);	These products are almost entirely metals and the recycling rate from the PCR and the benefit for module D is calculated by the benefit of recycling product at the end of life.	

System Boundary

This is a cradle to grave Environmental Product Declaration. The following life cycle phases were considered:

Product Stage			**Construction Process Stage**		**Use Stage**							**End of Life Stage***				**Benefits and Loads Beyond the System Boundaries**
Raw material supply	Transport	Manufacturing	Transport from gate to the site	Construction/ installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction /demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Description of the System Boundary Stages Corresponding to the PCR

(X = Included; MND = Module Not Declared)

*This includes provision of all materials, products and energy, packaging processing and its transport, as well as waste processing up to the end-of waste state or disposal of final residues.

LCA Results - Maximum Impact - Results for STABILOY® Aluminum Tray Cable 750 kcmil, 3-Conductor with 2/0 AWG, 3-Conductor Drain Wires

Please see the system boundary diagram above for an explanation of the A1-D life cycle stages. The below results all represent the Low Voltage Aluminum Tray Cable with the highest impact, which is the STABILOY Aluminum Tray Cable 750 KCMIL, 3-Conductor with 2/0 AWG, 3-Conductor Drain Wires. For all other cables in this product series, please see the scaling factors below to calculate their impacts.

Results shown below were calculated using TRACI 2.1 Methodology.

TRACI 2.1 Impact Assessment

Parameter	Parameter	Unit	A1-A3	A4	A5	B6	C2	C3	C4	D	Total
GWP	Global warming potential	kg CO_2-Eq.	3.40E+04	4.15E+02	2.37E+03	4.61E+00	2.22E-03	1.63E+03	1.75E+01	-2.86E+04	3.84E+04
ODP	Depletion potential of the stratospheric ozone layer	kg CFC-11 Eq.	9.59E-05	1.57E-08	4.82E-06	5.35E-13	8.38E-14	1.34E-12	9.47E-13	5.34E-09	1.01E-04
AP Air	Acidification potential for air emissions	kg SO_2-Eq.	2.44E+02	2.50E+00	1.50E+01	5.85E-03	1.33E-05	4.81E-01	1.09E-01	-8.75E+01	2.63E+02
EP	Eutrophication potential	kg N-Eq.	4.65E+00	1.38E-01	4.52E-01	4.84E-04	7.38E-07	1.35E-02	4.84E-03	-5.21E+00	5.26E+00
SP	Smog formation potential	kg O_3-Eq.	2.12E+03	6.87E+01	1.81E+02	8.49E-02	3.66E-04	3.27E+00	2.04E+00	-1.66E+03	2.37E+03
FFD	Fossil Fuel Depletion	MJ-surplus	3.50E+04	7.35E+02	2.73E+03	4.95E+00	3.92E-03	7.93E+01	2.99E+01	-2.46E+04	3.86E+04

**Stages B1 through B7 and C1 through C4 have been considered and only those with non-zero values have been reported*

Results shown below were calculated using CML 2001 - April 2013 Methodology.

CML 4.1 Impact Assessment

Parameter	Parameter	Unit	A1-A3	A4	A5	B6	C2	C3	C4	D	Total
GWP	Global warming potential	kg CO_2-Eq.	3.37E+04	4.17E+02	2.37E+03	4.66E+00	2.22E-03	1.63E+03	1.76E+01	-2.87E+04	3.82E+04
ODP	Depletion potential of the stratospheric ozone layer	kg CFC-11 Eq.	9.50E-05	1.57E-08	4.77E-06	3.17E-11	8.37E-14	7.90E-11	5.60E-11	-2.32E-07	9.98E-05
AP Air	Acidification potential for air emissions	kg SO_2-Eq.	2.60E+02	2.05E+00	1.53E+01	5.60E-03	1.09E-05	4.01E-01	1.02E-01	-8.07E+01	2.78E+02
EP	Eutrophication potential	kg$(PO_4)^3$-Eq.	1.20E+01	3.65E-01	1.19E+00	6.18E-04	1.95E-06	3.50E-02	1.14E-02	-1.00E+01	1.60E+00
POCP	Formation potential of tropospheric ozone photochemical oxidants	kg ethane-Eq.	1.62E+01	2.39E-01	1.28E+00	4.85E-04	1.28E-06	1.35E-02	8.24E-03	-6.66E+00	1.78E+01
ADPE	Abiotic depletion potential for non-fossil resources	kg Sb-Eq.	1.13E-02	1.73E-07	5.65E-04	5.62E-07	9.21E-13	1.29E-05	5.45E-06	-1.20E-02	1.19E-02
ADPF	Abiotic depletion potential for fossil resources	MJ	4.43E+05	5.30E+03	2.92E+04	5.61E+01	2.83E-02	7.51E+02	2.26E+02	-2.70E+05	4.78E+05

**Stages B1 through B7 and C1 through C4 have been considered and only those with non-zero values have been reported*

Results below contain the resource use throughout the life cycle of the product.

EN15804+A2

Parameter	Parameter	Unit	A1-A3	A4	A5	B6	C2	C3	C4	D	Total
GWP-total	Climate change - total	kg CO_2-Eq.	3.41E+04	4.18E+02	2.47E+03	4.69E+00	2.23E-03	1.63E+03	1.76E+01	-2.89E+04	3.87E+04
GWP-fossil	Climate change - fossil	kg CO_2-Eq.	3.41E+04	4.18E+02	2.23E+03	4.69E+00	2.23E-03	1.63E+03	1.77E+01	-2.88E+04	3.84E+04
GWP-biogenic	Climate change - biogenic	kg CO_2-Eq.	-1.03E+01	0.00E+00	1.03E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
GWP-luluc	Climate change - land use and land use change	kg CO_2-Eq.	4.00E-01	0.00E+00	6.24E-02	4.77E-04	0.00E+00	4.26E-02	1.06E-01	-5.56E+00	6.12E-01
ODP	Ozone depletion	kg CFC-11 Eq.	9.48E-05	1.08E-08	4.75E-06	2.69E-11	5.77E-14	6.71E-11	4.76E-11	-1.96E-07	9.96E-05
AP	Acidification	mol H^+ Eq.	2.96E+02	2.76E+00	1.79E+01	6.33E-03	1.47E-05	2.64E-01	1.25E-01	-9.79E+01	3.17E+02
EP-freshwater	Eutrophication aquatic freshwater	kg P-Eq.	1.64E-02	1.19E-04	6.82E-03	2.60E-06	6.34E-10	2.53E-05	4.02E-05	-3.97E-02	2.34E-02
EP-marine	Eutrophication aquatic marine	kg N Eq.	3.40E+01	1.06E+00	2.82E+00	1.40E-03	5.67E-06	5.63E-02	3.23E-02	-2.65E+01	3.80E+01
EP-terrestrial	Eutrophication terrestrial	mol N Eq.	3.71E+02	1.16E+01	3.03E+01	1.52E-02	6.19E-05	1.21E+00	3.55E-01	-2.89E+02	4.15E+02
POCP	Photochemical ozone formation	NMVOC Eq.	1.17E+02	3.13E+00	9.39E+00	4.10E-03	1.67E-05	1.56E-01	9.88E-02	-7.41E+01	1.30E+02
ADP-minerals&metals	Depletion of abiotic resources - minerals and metals	kg Sb Eq.	6.33E-04	0.00E+00	3.11E-05	4.51E-07	0.00E+00	4.63E-06	1.14E-06	-2.74E-03	6.70E-04
ADP-fossil	Depletion of abiotic resources - fossil fuels	mol N Eq.	4.60E+05	5.35E+03	3.00E+04	7.80E+01	2.85E-02	7.90E+02	2.33E+02	-3.30E+05	4.97E+05
WDP	Water use	m^3 world Eq. deprived	4.60E+02	0.00E+00	2.22E+01	9.26E-01	0.00E+00	1.28E+02	2.02E+00	-4.81E+03	6.13E+02
PM	Particulate matter emissions	Disease incidence	4.23E-03	1.09E-05	2.21E-04	5.87E-08	5.82E-11	2.98E-06	1.57E-06	-2.14E-03	4.46E-03
IRP	Ionizing radiation, human health	kBq U235 Eq.	2.82E+02	9.40E-17	1.07E+01	6.44E-01	5.01E-22	1.20E+00	2.82E-01	-2.21E+03	2.94E+02
ETP-fw	Ecotoxicity (freshwater)	CTUe	2.43E+05	7.74E+03	2.25E+04	1.25E+01	4.13E-02	7.79E+02	1.55E+02	-7.83E+04	2.74E+05
HTP-c	Human toxicity, cancer effects	CTUh	1.14E-05	1.12E-07	7.21E-07	6.21E-10	6.00E-13	2.07E-08	3.17E-09	-2.20E-05	1.23E-05
HTP-nc	Human toxicity, non-cancer effects	CTUh	2.73E-04	7.66E-06	2.40E-05	1.06E-08	4.09E-11	1.85E-06	1.22E-07	-2.54E-04	3.07E-04
SQP	Land use related impacts/Soil quality	dimensionless	1.39E+03	0.00E+00	3.89E+01	8.66E+00	0.00E+00	7.10E+01	6.41E+01	-6.85E+04	1.58E+03

Results below contain the resource use throughout the life cycle of the product.

Resource Use

Parameter	Parameter	Unit	A1-A3	A4	A5	B6	C2	C3	C4	D	Total
RPR_E	Renewable primary energy as energy carrier	MJ	1.21E+04	0.00E+00	5.24E+02	2.01E+01	0.00E+00	5.00E+01	4.06E+01	-2.16E+05	1.27E+04
RPR_M	Renewable primary energy resources as material utilization	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
$NRPR_E$	Nonrenewable primary energy as energy carrier	MJ	5.06E+05	5.35E+03	3.24E+04	7.80E+01	2.85E-02	7.90E+02	2.33E+02	-3.30E+05	5.45E+05
$NRPR_M$	Nonrenewable primary energy as material utilization	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
SM	Use of secondary material	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RSF	Use of renewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
NRSF	Use of nonrenewable secondary fuels	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
RE	Energy recovered from disposed waste	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
FW	Use of net fresh water	m^3	2.96E+01	0.00E+00	1.43E+00	2.83E-02	0.00E+00	2.99E+00	6.17E-02	-1.47E+02	3.41E+01

**All use phase and disposal stages have been considered and only those with non-zero values have been reported*

Results below contain the output flows and wastes throughout the life cycle of the product.

Output Flows and Waste Categories

Parameter	Parameter	Unit	A1-A3	A4	A5	B6	C2	C3	C4	D	Total
HWD	Hazardous waste disposed	kg	4.91E-05	0.00E+00	2.29E-06	4.54E-08	0.00E+00	1.35E-07	5.80E-08	-2.34E-04	5.16E-05
NHWD	Non-hazardous waste disposed	kg	3.27E+04	0.00E+00	1.86E+03	2.24E-02	0.00E+00	1.43E+02	1.18E+03	-1.30E+04	3.59E+04
HLRW	High-level radioactive waste	kg	6.64E+00	0.00E+00	3.12E-01	7.80E-03	0.00E+00	1.39E-02	2.44E-03	-2.18E+01	6.98E+00
ILLRW	Intermediate- and low-level radioactive waste	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
CRU	Components for re-use	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
MR	Materials for recycling	kg	0.00E+00	0.00E+00	1.38E+02	0.00E+00	0.00E+00	0.00E+00	2.75E+03	0.00E+00	2.89E+03
MER	Materials for energy recovery	kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
EE	Recovered energy exported from system	MJ	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

**All use phase and disposal stages have been considered and only those with non-zero values have been reported*

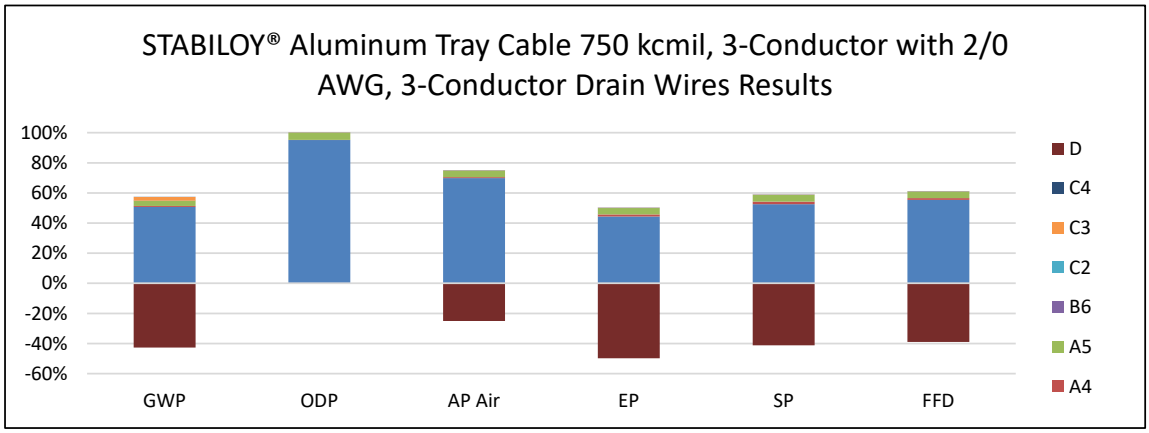
Biogenic Carbon Contents

Parameter	Unit	A1-A3	A4	A5	B6	C2	C3	C4	D	Total
Biogenic Carbon Content in Product	kg C	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Biogenic Carbon Content in Accompanying Packaging	kg C	3.77E+01	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	3.77E+01

**All use phase and disposal stages have been considered and only those with non-zero values have been reported*

LCA Interpretation - Maximum Impact

The production life cycle stage (A1-A3) dominates the impacts across all impact categories. This is due to the upstream production of raw materials used in the product, along with energy use in the manufacturing of the product. The D reuse, recovery, and recycling potential stage shows as a negative value and accounts for the benefit of energy recovery during incineration, and the benefit from recycling material at the end-of-life for a product. Though the energy use (B6) phase does not have a large impact, this is due to the functional unit of 1 AMP, lifetime use may be larger than 1 AMP.



System Boundary

This is a cradle to grave Environmental Product Declaration. The following life cycle phases were considered:

Product Stage			Construction Process Stage		Use Stage							End of Life Stage*				Benefits and Loads Beyond the System Boundaries
Raw material supply	Transport	Manufacturing	Transport from gate to the site	Construction/ installation process	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	Deconstruction /demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Description of the System Boundary Stages Corresponding to the PCR

(X = Included; MND = Module Not Declared)

*This includes provision of all materials, products and energy, packaging processing and its transport, as well as waste processing up to the end-of waste state or disposal of final residues.

Scaling Factor Tables

For EPDs with product groups, an impact assessment was completed for each product and the highest impacts were reported as representations of the product group. The rest of the products in each group are represented through scaling factor tables and can be independently calculated. Please see page 7 for a guide on the system boundary and the life cycle phases used below.

To use these scaling factors, you will need the result from the tables in section 'LCA Results - Maximum Impact' and the chosen cable you are investigating. The scaling factors multiplied by the results above will be the results for that particular cable. For example, if you wanted to know how much A1-A3 GWP impact came from the example cable, you would follow the equation below. This equation can be used for all steps of the life cycle, where the scaling factor from each stage is multiplied by the results shown in this study in order to get any of the results.

	Scaling Factor	*	Results	=	Final GWP
STABILOY® AL TC-ER 4 AWG/3C + 6 AWG AL INS GRD	6.69E-02	*	3.40E+04	=	2.27E+03

This equation can be used for all steps of the life cycle, where the scaling factor from each stage is multiplied by the results shown in this study in order to get any of the results. The scaling factors below are split into A1-A3 factors, which have each main impact category distinct from the others. This is due to the fact that the manufacturing site and the raw materials used in each cable can vary tremendously in these category. The A4-D categories are mostly based on weight of the cable, the individual impact category does not have as much variability and can be assumed to be the same. C2-D will all have the same scaling factor, and therefore, the scaling factor for these can be used in the equation above for any individual category. These scaling factors can be used for each methodology, including the TRACI 2.1 impacts, CML 4.1 impacts and EN15804+A2 impacts, from the results section.

To adjust for more operational energy use than one amp, you will need the result from the tables in section 'LCA Results - Maximum Impact', the chosen cable you are investigating, and your expected amperage over 40 years. The scaling factors multiplied by the results above will be the operational use results for that particular cable, multiplied by the squared amperage. For example, if you wanted to know how much 100 Amps would increase the 1example cable B6 stage GWP, you would follow the equation below:

	Scaling Factor	*	Results	*	Amperage-squared	=	Final GWP
STABILOY® AL TC-ER 4 AWG/3C + 6 AWG AL INS GRD	1.46E+01	*	4.61E+00	*	100^2	=	6.73E+05

	A1 - A3							A4	A5	B6	C2 - D
	GWP	ODP	AP	EP	PCOP	FFD/ADP	Resources				
STABILOY® AL TC-ER 6 AWG/3C + 6 AWG AL INS GRD	4.79E-02	3.88E-02	4.10E-02	4.72E-02	4.39E-02	7.61E-02	7.65E-02	7.24E-02	7.24E-02	2.32E+01	7.24E-02
STABILOY® AL TC-ER 4 AWG/3C + 6 AWG AL INS GRD	6.69E-02	5.61E-02	5.88E-02	6.63E-02	6.20E-02	9.85E-02	9.82E-02	1.02E-01	1.02E-01	1.46E+01	1.02E-01
STABILOY® AL TC-ER 2 AWG/3C + 6 AWG AL INS GRD	9.36E-02	8.35E-02	8.62E-02	9.32E-02	8.92E-02	1.24E-01	1.24E-01	1.31E-01	1.31E-01	1.06E+01	1.31E-01
STABILOY® AL TC-ER 2 AWG/4C + 6 AWG AL INS GRD	1.20E-01	1.08E-01	1.11E-01	1.19E-01	1.15E-01	1.56E-01	1.56E-01	1.59E-01	1.59E-01	1.06E+01	1.59E-01
STABILOY® AL TC-ER 1/0 AWG/3C + 4 AWG AL INS GRD	1.45E-01	1.33E-01	1.36E-01	1.45E-01	1.40E-01	1.85E-01	1.84E-01	1.87E-01	1.87E-01	7.19E+00	1.87E-01
STABILOY® AL TC-ER 1/0 AWG/4C + 4 AWG AL INS GRD	1.87E-01	1.72E-01	1.76E-01	1.86E-01	1.81E-01	2.34E-01	2.35E-01	2.33E-01	2.33E-01	7.19E+00	2.33E-01
STABILOY® AL TC-ER 2/0 AWG/3C + 4 AWG AL INS GRD	1.76E-01	1.63E-01	1.66E-01	1.75E-01	1.70E-01	2.14E-01	2.13E-01	2.19E-01	2.19E-01	5.39E+00	2.19E-01
STABILOY® AL TC-ER 4/0 AWG/3C + 2 AWG AL INS GRD	2.70E-01	2.60E-01	2.62E-01	2.69E-01	2.66E-01	3.01E-01	3.01E-01	3.09E-01	3.09E-01	3.08E+00	3.09E-01
STABILOY® AL TC-ER 4/0 AWG/4C + 2 AWG AL INS GRD	3.52E-01	3.38E-01	3.42E-01	3.52E-01	3.46E-01	3.93E-01	3.92E-01	4.11E-01	4.11E-01	3.08E+00	4.11E-01
STABILOY® AL TC-ER 250 kcmil/3C + 2 AWG AL INS GRD	3.18E-01	3.02E-01	3.07E-01	3.18E-01	3.11E-01	3.65E-01	3.63E-01	3.89E-01	3.89E-01	2.95E+00	3.89E-01
STABILOY® AL TC-ER 350 kcmil/3C + 2 AWG AL INS GRD	4.28E-01	4.14E-01	4.18E-01	4.28E-01	4.22E-01	4.68E-01	4.65E-01	4.99E-01	4.99E-01	2.11E+00	4.99E-01
STABILOY® AL TC-ER 500 kcmil/3C + 1 AWG AL INS GRD	6.09E-01	5.99E-01	6.02E-01	6.10E-01	6.05E-01	6.40E-01	6.38E-01	6.63E-01	6.63E-01	1.45E+00	6.63E-01
STABILOY® AL TC-ER 500 kcmil/4C + 1 AWG AL INS GRD	7.97E-01	7.89E-01	7.91E-01	7.97E-01	7.94E-01	8.27E-01	8.27E-01	8.29E-01	8.29E-01	1.45E+00	8.29E-01
STABILOY® AL TC-ER 600 kcmil/3C + 1/0 AWG AL INS GRD	7.36E-01	7.21E-01	7.25E-01	7.36E-01	7.30E-01	7.85E-01	7.83E-01	7.99E-01	7.99E-01	1.21E+00	7.99E-01
STABILOY® AL TC-ER 750 kcmil/3C + 1/0 AWG AL INS GRD	9.01E-01	8.91E-01	8.94E-01	9.01E-01	8.98E-01	9.34E-01	9.33E-01	9.41E-01	9.41E-01	1.00E+00	9.41E-01
STABILOY® AL TRAY 1/0 AWG/4C + 4 AWG AL GRD	1.83E-01	2.93E-06	5.56E-03	1.45E-02	3.48E-03	2.03E-02	2.03E-02	2.22E-01	2.22E-01	7.19E+00	2.22E-01

	A1 - A3							A4	A5	B6	C2 - D
	GWP	ODP	AP	EP	PCOP	FFD/ADP	Resources				
STABILOY® AL TRAY 4/0 AWG/3C + 1 AWG AL GRD	2.73E-01	2.66E-01	2.68E-01	2.73E-01	2.70E-01	2.92E-01	2.90E-01	3.09E-01	3.09E-01	3.08E+00	3.09E-01
STABILOY® AL TRAY 250 kcmil/3C + 1 AWG AL GRD	3.17E-01	3.08E-01	3.11E-01	3.17E-01	3.14E-01	3.46E-01	3.45E-01	3.53E-01	3.53E-01	2.95E+00	3.53E-01
STABILOY® AL TRAY 350 kcmil/3C + 2 AWG AL GRD	4.23E-01	6.38E-06	1.21E-02	3.16E-02	7.56E-03	4.41E-02	4.41E-02	4.84E-01	4.84E-01	2.11E+00	4.84E-01
STABILOY® AL TRAY 350 kcmil/3C + 4/0 AWG AL GRD	4.79E-01	4.67E-01	4.70E-01	4.77E-01	4.72E-01	5.05E-01	5.02E-01	5.30E-01	5.30E-01	2.11E+00	5.30E-01
STABILOY® AL TRAY 350 kcmil/4C + 1/0 AWG AL GRD	5.67E-01	8.07E-06	1.53E-02	4.00E-02	9.57E-03	5.58E-02	5.58E-02	6.12E-01	6.12E-01	2.11E+00	6.12E-01
STABILOY® AL TRAY 500 kcmil/3C + 250 kcmil AL GRD	6.76E-01	6.61E-01	6.65E-01	6.73E-01	6.68E-01	7.20E-01	7.20E-01	7.21E-01	7.21E-01	1.45E+00	7.21E-01
STABILOY® AL TRAY 500 kcmil/4C + 3/0 AWG AL GRD	8.35E-01	1.15E-05	2.18E-02	5.70E-02	1.36E-02	7.95E-02	7.95E-02	8.72E-01	8.72E-01	1.45E+00	8.72E-01
STABILOY® AL TRAY 500 kcmil/4C + 4/0 AWG AL GRD	8.39E-01	8.36E-01	8.37E-01	8.40E-01	8.38E-01	8.50E-01	8.48E-01	8.66E-01	8.66E-01	1.45E+00	8.66E-01
STABILOY® AL TRAY 600 kcmil/3C + 1 AWG AL GRD	7.33E-01	7.13E-01	7.18E-01	7.30E-01	7.24E-01	7.94E-01	7.94E-01	8.01E-01	8.01E-01	1.21E+00	8.01E-01
STABILOY® AL TRAY 750 kcmil/3C + 2/0 AWG AL GRD	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00	1.00E+00

Additional Environmental Information

Environmental and Health During Manufacturing

Prysmian has an established HSE Management System in place at its manufacturing sites. Site programs ensure that OSHA and environmental requirements are met or exceeded to help ensure the safety and health of all employees, contractors, and guests.

Environmental and Health During Installation

There is no harmful emissive potential. No damage to health or impairment is expected under normal use corresponding to the intended use of the product.

Extraordinary Effects

Fire
None
Water
None
Mechanical Destruction
None

Delayed Emissions

Global warming potential is calculated using the TRACI 2.1 and CML 4.1 impact assessment methodologies. Delayed emissions are not considered.

Environmental Activities and Certifications

Prysmian North America manufacturing sites strive to meet or exceed all applicable federal, state, and local environmental regulations. All manufacturing sites are ISO 14001:2015 Certified.

Prysmian maintains a variety of certifications based on the widely accepted industry standards:
- Quality Management System certifications (ISO9001/TL9000)
- Environmental Management System certifications (ISO14001)
- Health and Safety Management System certifications (ISO45001)

These certificates can be downloaded from our company website here: https://www.prysmian.com/en

Further Information

Prysmian Group
4 Tesseneer Road
Highland Heights, KY 41076

References

- PCR — PEP ecopassport Program: Product Category Rules for Electrical, Electronic and HVAC-R Products, v4.0, 2021.
- PSR — PEP ecopassport Program: Product Specific Rules for Wires, Cables and Accessories, v4.0, 2022.
- LCA for Experts v10.7.0.183 — Sphera Solutions GmbH. LCA for Experts Software System and Database for Life Cycle Engineering. Version 10.7.0.183 (software).
- ISO 14025 — ISO 14025:2011-10, Environmental labels and declarations — Type III environmental declarations — Principles and procedures.
- ISO 14040 — ISO 14040:2009-11, Environmental management — Life cycle assessment — Principles and framework.
- ISO 14044 — ISO 14044:2006-10, Environmental management — Life cycle assessment — Requirements and guidelines.
- EN 15804+A2 — EN 15804:2012+A2:2019/AC:2021 - Sustainability of construction works - Environmental Product Declarations - Core rules for the product category of construction products
- ASTM 2020 — ASTM International General Program Instructions v8.0, April 29, 2020
- ISO 21930: 2017 — ISO 21930:2017, Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products and services.
- Characterization Method — IPCC. 2021. Climate Change 2013. The Physical Science Basis. Cambridge University Press. (http://www.ipcc.ch/report/ar5/wg1/).
- Characterization Method — Hauschild M.Z., & Wenzel H. Environmental Assessment of Products. Springer, US, Vol. 2, 1998.
- Characterization Method — Heijungs R., Guinée J.B., Huppes G., Lankreijer R.M., Udo de Haes H.A., Wegener Sleeswijk A. Environmental Life Cycle Assessment of Products: Guide and Backgrounds. CML. Leiden University, Leiden, 1992.
- Characterization Method — Jenkin M.E., & Hayman G.D. Photochemical ozone creation potentials for oxygenated volatile organic compounds: sensitivity to variations in kinetic and mechanistic parameters. Atmospheric Environment. 1999, 33 (8) pp. 1275-1293.
- Characterization Method — WMO. 1999. Scientific Assessment of Ozone Depletion: 1998, World Meteorological Organization Global Ozone Research and Monitoring Project - Report No. 44, WMO, Geneva.
- Characterization Method — Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources using Environmental Chambers- version 1.2, January 2017.

Contact Information

Study Commissioner

- For more information, visit our website at https://www.prysmian.com/en

- Technical Support for product technical questions at https://www.prysmian.com/en/contact-us
- Contact our sustainability team:

LCA Practitioner

Sustainable Solutions Corporation
155 Railroad Plaza, Suite 203
Royersford, PA 19468 USA
(+1) 610 569-1047
info@sustainablesolutionscorporation.com
www.sustainablesolutionscorporation.com