

Environmental Product Declaration

Prysmian Low Voltage Aluminum Armor Cable

STABILOY® Brand MC (Metal Clad) Cable, UL Type MC, 600 V

STABILOY® Brand MC (Metal Clad) Cable with PVC Jacket, 600V

NUAL® Brand AC90/ACWU90 Cable, CSA Type AC90, ACWU90, 600V



Prysmian's Low Voltage Aluminum Armor Cable line consists of STABILOY® Brand UL Type MC and NUAL® Brand CSA Type AC90/ACWU90. Our high-quality aluminum armor 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.



Environmental Product Declaration



According to
ISO 14025, EN 15804+A2,
ISO 14040, ISO 14044

Prysmian Low Voltage Aluminum Armor Cable

Industrial and Construction Cables

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	EPD843
DECLARED PRODUCT & FUNCTIONAL UNIT OF DECLARED UNIT	Prysmian Low Voltage Aluminum Armor 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:	 Timothy S Brooke
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	
This life cycle assessment was conducted in accordance with ISO 14044 and the reference PCR by:	 Thomas P Gloria, Ph. D Industrial Ecology Consultants
This life cycle assessment was independently verified in accordance with ISO 14044 and the reference PCR by:	

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.

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Prysmian Low Voltage Aluminum Armor Cable

Industrial and Construction Cables

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 MC (Metal Clad) Cables** are 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). The armor is interlocked aluminum. PVC jacket is optional.

Additional features include:

- Oil Resistant PRI/PRII
- Gas and Oil Res GRI/GRII
- 4 AWG and larger meets cold bend and cold impact tests at -40°C
- Excellent electrical, thermal and physical properties
- UV/sunlight-resistant, for CT use, moisture-resistant and flame-retardant insulation

Prysmian's **NUAL® Brand AC90/ACWU90 Cables** are 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). The armor is interlocked aluminum. PVC jacket is only for ACWU90 type.

Additional features include:

- Rated 90°C dry locations (AC90). Rated 90°C wet or dry locations (ACWU90)
- UV/sunlight-resistant, moisture-resistant and flame-retardant insulation
- Meets cold and bend impact test at -40°C
- Excellent electrical, thermal and physical properties
- Excellent crush, oil and chemical resistance
- Rated AG14 (Acid Gas) (ACWU90)

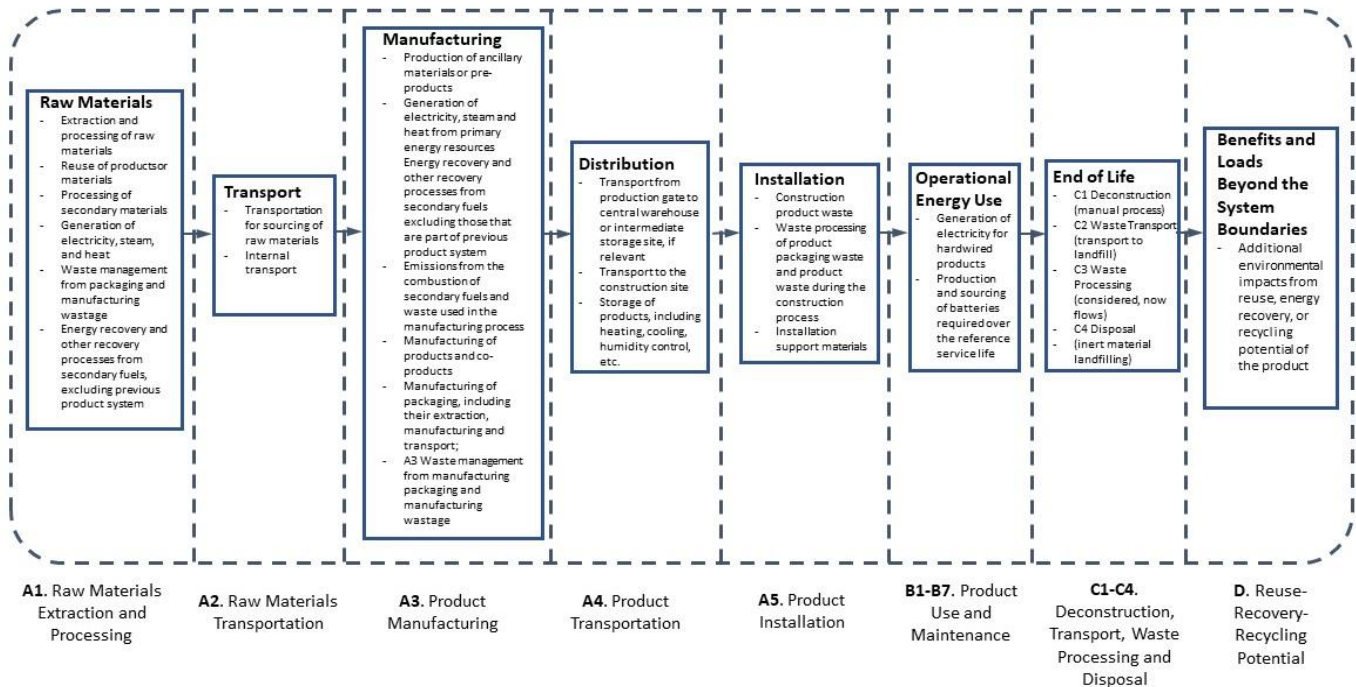
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Prysmian Low Voltage Aluminum Armor Cable
Industrial and Construction Cables

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.

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Prysmian Low Voltage Aluminum Armor Cable
Industrial and Construction Cables

Application

Prysmian STABILOY® Brand MC cable is designed for above-ground applications and is approved for use in many applications including cable tray, power lighting and signal circuits as well as in hazardous locations as permitted in NEC Articles 501, 502, 503 and 504. Ideal applications include services, feeders and branch circuits, power lighting and signal circuits, indoors, cable tray, hazardous locations per NEC®, dry locations and embedded in plaster finish on brick or other masonry except in damp or wet conditions, and interior temporary power. Maximum operating temperature not to exceed 90°C in wet or dry locations.

Prysmian Jacketed STABILOY® MC cable is used in single phase feeder applications within multi-family residential and similar commercial constructions. Additional applications for STABILOY® MC cable with PVC jacket over armor include outdoors, in cable tray, direct buried, encased in concrete, exterior/interior temporary power, as aerial cable on a messenger and in hazardous locations per NEC®. Maximum operating temperature not to exceed 90°C in 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 STABILOY® Aluminum Metal Clad Cable 900 kcmil, 4-Conductor with 900 kcmil Drain Wire cable is as follows:

Material	Percentage in mass (%)
	Maximum
Colorant	0.90%
Conductor	86.35%
Insulation	12.40%
Tape	0.35%
Total	100.00%

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Prysmian Low Voltage Aluminum Armor Cable
Industrial and Construction Cables

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)

STABILOY® Brand MC (Metal Clad) Cable with PVC Jacket

XLPE

600 V, UL Type MC with PVC Jacket, Multi-Conductor, Aluminum



CONDUCTOR SIZE (AWG/kcmil)	MIN. AVG. INSULATION THICKNESS		SUB ASSEMBLY		NOM. CABLE DIAMETER OVER ARMOR		NOM. JACKET DIAMETER OVER ARMOR		NOM. JACKET THICKNESS		ALUMINUM CONDUCTOR WEIGHT		NET WEIGHT	
	IN	mm	IN	mm	IN	mm	IN	mm	IN	mm	LBS/ 1000 FT	kg/km	LBS/ 1000 FT	kg/km
THREE CONDUCTORS WITH GROUND														
6-6-6-6*	0.045	1.14	0.61	15.5	0.84	21.3	0.94	23.9	0.050	1.27	99	147	314	467
4-4-4-6*	0.045	1.14	0.68	17.3	0.91	23.1	1.01	25.7	0.050	1.27	143	213	383	570
2-2-2-6*	0.045	1.14	0.77	19.6	1.00	25.4	1.10	27.9	0.050	1.27	212	315	483	719
1-1-1-4*	0.055	1.40	0.90	22.9	1.13	28.7	1.23	31.2	0.050	1.27	276	411	604	899
1/0-1/0-1/0-4*	0.055	1.40	0.96	24.4	1.26	32.0	1.36	34.5	0.050	1.27	337	502	728	1083
2/0-2/0-2/0-4*	0.055	1.40	1.04	26.4	1.34	34.0	1.44	36.6	0.050	1.27	415	618	837	1246
3/0-3/0-3/0-4*	0.055	1.40	1.14	29.0	1.44	36.6	1.54	39.1	0.050	1.27	513	763	975	1451
4/0-4/0-4/0-2*	0.055	1.40	1.25	31.8	1.55	39.4	1.67	42.4	0.060	1.52	660	982	1194	1777
250-250-250-2*	0.065	1.65	1.39	35.3	1.68	42.7	1.80	45.7	0.060	1.52	768	1143	1379	2052
300-300-300-2*	0.065	1.65	1.50	38.1	1.80	45.7	1.92	48.8	0.060	1.52	910	1354	1571	2338
350-350-350-2*	0.065	1.65	1.59	40.4	1.88	47.8	2.00	50.8	0.060	1.52	1051	1564	1753	2609
400-400-400-1*	0.065	1.65	1.70	43.2	2.00	50.8	2.12	53.8	0.060	1.52	1208	1798	1940	2887
500-500-500-1*	0.065	1.65	1.87	47.5	2.16	54.9	2.28	57.9	0.060	1.52	1491	2219	2296	3417
600-600-600-1*	0.080	2.03	2.10	53.3	2.39	60.7	2.54	64.5	0.075	1.91	1773	2639	2796	4161
700-700-700-1/0*	0.080	2.03	2.23	56.6	2.53	64.3	2.68	68.1	0.075	1.91	2076	3089	3170	4717
750-750-750-1/0*	0.080	2.03	2.30	58.4	2.60	66.0	2.75	69.9	0.075	1.91	2217	3299	3346	4979
900-900-900-250*	0.080	2.03	2.50	63.5	2.79	70.9	2.94	74.7	0.075	1.91	2777	4133	4010	5968
FOUR CONDUCTORS WITH GROUND														
6-6-6-6-6*	0.045	1.14	0.63	16.0	0.86	21.8	0.96	24.4	0.050	1.27	123	183	359	534
4-4-4-4-6*	0.045	1.14	0.78	19.8	1.00	25.4	1.10	27.9	0.050	1.27	182	271	460	685
2-2-2-2-6*	0.045	1.14	0.89	22.6	1.11	28.2	1.21	30.7	0.050	1.27	275	409	591	880
1-1-1-1-4*	0.055	1.40	1.03	26.2	1.32	33.5	1.42	36.1	0.050	1.27	354	527	779	1159
1/0-1/0-1/0-1/0-4*	0.055	1.40	1.11	28.2	1.40	35.6	1.50	38.1	0.050	1.27	437	650	897	1335
2/0-2/0-2/0-2/0-4*	0.055	1.40	1.18	30.0	1.48	37.6	1.58	40.1	0.050	1.27	540	804	1035	1540
3/0-3/0-3/0-3/0-4*	0.055	1.40	1.28	32.5	1.58	40.1	1.70	43.2	0.060	1.52	671	999	1243	1850
4/0-4/0-4/0-4/0-2*	0.055	1.40	1.43	36.3	1.72	43.7	1.84	46.7	0.060	1.52	859	1278	1489	2216
250-250-250-250-1*	0.065	1.65	1.59	40.4	1.88	47.8	2.00	50.8	0.060	1.52	1020	1518	1746	2598
300-300-300-300-1*	0.065	1.65	1.69	42.9	1.99	50.5	2.11	53.6	0.060	1.52	1208	1798	1991	2963
350-350-350-350-1/0*	0.065	1.65	1.81	46.0	2.11	53.6	2.23	56.6	0.060	1.52	1417	2109	2256	3357
400-400-400-400-1/0*	0.065	1.65	1.92	48.8	2.21	56.1	2.33	59.2	0.060	1.52	1605	2389	2471	3677
500-500-500-500-2/0*	0.065	1.65	2.11	53.6	2.40	61.0	2.55	64.8	0.075	1.91	2008	2988	3036	4518
500-500-500-500-250*	0.065	1.65	2.25	57.2	2.54	64.5	2.69	68.3	0.075	1.91	2118	3152	3187	4743
600-600-600-600-2/0*	0.080	2.03	2.35	59.7	2.64	67.1	2.79	70.9	0.075	1.91	2384	3548	3599	5356
600-600-600-600-400*	0.080	2.03	2.61	66.3	2.90	73.7	3.05	77.5	0.075	1.91	2635	3921	3929	5847
700-700-700-700-2/0*	0.080	2.03	2.50	63.5	2.80	71.1	2.95	74.9	0.075	1.91	2761	4109	4061	6043
750-750-750-750-3/0*	0.080	2.03	2.58	65.5	2.87	72.9	3.02	76.7	0.075	1.91	2982	4438	4325	6436
750-750-750-750-750*	0.080	2.03	3.04	77.2	3.34	84.8	3.51	89.2	0.085	2.16	3529	5252	5085	7567
900-900-900-900-250*	0.080	2.03	2.83	71.9	3.13	79.5	3.30	83.8	0.085	2.16	3624	5393	5164	7685
900-900-900-900-900*	0.080	2.03	3.32	84.3	3.60	91.4	3.78	96.0	0.085	2.16	4235	6302	5939	8838

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)

Markings/Print:

- The cable assembly is identified with a marker tape placed under the binder tape
- GENERAL CABLE® TYPE MC-ST1 STABILOY® AA-8030 AL 600 V (UL) FOR CT USE (NOT "ST1" ON JACKETED MC UNLESS SO MARKED) FT4/IEEE 1202 NOM ANCE SEQUENTIAL FOOTAGE

Jacketed Print:

- GENERAL CABLE (PLT. OF MFG.) TYPE MC STABILOY® AA-8030 AL 600 V FOR CT USE SUN RES DIRECT BURIAL FT4/IEEE 1202 (-40°C) (# OF CDRS) SIZE (AWG OR KCMIL) (MM²) (# OF CDR) SIZE (AWG OR KCMIL) (MM²) (UL) YEAR DATE (TIME OF MFG) NOM ANCE SEQUENTIAL FOOTAGE

Options:

- 2000 V RHH/RHW-2 is available
- Other sizes and stranding options available upon request
- Custom constructions and oversize neutrals available

Applications:

Jacketed STABILOY® MC cable is used in single phase feeder applications within multi-family residential and similar commercial constructions. Additional applications for STABILOY® MC cable with PVC jacket over armor include:

- Outdoors
- In cable tray
- Direct buried
- Encased in concrete
- Exterior/Interior temporary power
- As aerial cable on a messenger
- In hazardous locations per NEC®
- Maximum operating temperature not to exceed 90°C in wet or dry locations

Features:

- Oil Resistant PRI/PRIL conductors
- Gas and Oil Res GRI/GRIL conductors
- UV/sunlight-resistant, for CT use, moisture-resistant and flame-retardant insulation
- 4 AWG and larger meets cold bend and cold impact tests at -40°C
- Excellent electrical, thermal and physical properties

Compliances:**Industry Compliances:**

- UL 1569 Metal-Clad Cables, UL File #E109108
- UL 44 Type XHHW-2
- National Electrical Code (NEC®)

Flame Test Compliances:

- CT UL 1685
- UL 2556 FT4/IEEE 1202

Other Compliances:

- OSHA Acceptable
- RoHS Compliant

Packaging:

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



NUAL® Brand ACWU90 Cable

XLPE

600 V, CSA Type ACWU90, Aluminum

**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 1000 kcmil Class B compact stranded aluminum alloy (8000 Series) per ASTM B800 and ASTM B801

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE), Type RW90

Print:

- GENERAL CABLE® (PLT. OF MFG.) (# OF CDRS) SIZE (AWG OR KCMIL) AL ACM NUAL® ACWU90 XLPE -40°C 600 V HL FT4 AG14 SUN RES CSA YEAR DATE (TIME OF MFG) SEQUENTIAL METER MARK

Applications:

- NUAL® Brand ACWU90 armored cable is designed for use in the following applications:
- Outdoors (exposed locations)
 - In wet locations (Type RW90 conductors)
 - Direct buried
 - In cable trays
 - Encased in concrete
 - Temporary power
 - As aerial cable on a messenger
 - Class 1, Zones 1 and 2, and Classes 2 and 3, Divisions 1 and 2 hazardous locations for multi-conductors per CEC Section 18

Features:

- Rated 90°C wet or dry locations
- UV/sunlight-resistant, moisture-resistant and flame-retardant insulation
- Meets cold and bend impact test at -40°C
- Excellent electrical, thermal and physical properties
- Excellent crush, oil and chemical resistance
- Rated AG14 (Acid Gas)

Compliances:**Industry Compliances:**

- CSA C22.2 No. 38
- CSA C22.2 No. 51
- CSA C22.2 No. 174 (Hazardous Locations)
- CSA Approved File # LL 28117
- Canadian Electrical Code (CEC)

Flame Test Compliances:

- CSA FT1 and FT4

Other Compliances:

- OSHA Acceptable
- RoHS Compliant

Packaging:

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

COND. SIZE (AWG/kcmil)	BOND SIZE	MIN. AVG. INSULATION THICKNESS		SUB ASSEMBLY		NOM. CABLE DIAMETER OVER ARMOR		NOM. JACKET DIAMETER OVER ARMOR		NOM. JACKET THICKNESS		ALUMINUM CONDUCTOR WEIGHT		NET WEIGHT	
		IN	mm	IN	mm	IN	mm	IN	mm	IN	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
SINGLE CONDUCTORS WITH CONCENTRIC BOND															
1	4	0.050	1.27	0.51	13.0	0.74	18.8	0.83	21.1	0.045	1.14	119	177	288	429
1/0	4	0.050	1.27	0.55	14.0	0.78	19.8	0.87	22.1	0.045	1.14	161	240	341	507
2/0	2	0.050	1.27	0.59	15.0	0.82	20.8	0.91	23.1	0.045	1.14	187	278	377	561
3/0	2	0.050	1.27	0.64	16.3	0.86	21.8	0.95	24.1	0.045	1.14	219	326	424	631
4/0	2	0.050	1.27	0.70	17.8	0.93	23.6	1.02	25.9	0.045	1.14	277	412	498	741
250	1	0.060	1.52	0.76	19.3	0.99	25.1	1.11	28.2	0.060	1.52	313	466	588	875
300	1	0.060	1.52	0.81	20.6	1.04	26.4	1.16	29.5	0.060	1.52	359	534	652	970
350	1/0	0.060	1.52	0.87	22.1	1.10	27.9	1.22	31.0	0.060	1.52	427	635	737	1097
400	1/0	0.060	1.52	0.92	23.4	1.15	29.2	1.27	32.3	0.060	1.52	474	705	795	1183
500	2/0	0.060	1.52	1.02	25.9	1.25	31.8	1.37	34.8	0.060	1.52	593	882	943	1403
600	2/0	0.060	1.52	1.11	28.2	1.34	34.0	1.46	37.1	0.060	1.52	719	1070	1097	1633
750	3/0	0.060	1.52	1.21	30.7	1.44	36.6	1.56	39.6	0.060	1.52	860	1280	1268	1887
1000	3/0	0.060	1.52	1.37	34.8	1.66	42.2	1.78	45.2	0.060	1.52	1141	1698	1645	2448
THREE CONDUCTORS WITH BOND															
6	8	0.045	1.14	0.57	14.5	0.76	19.3	0.85	21.6	0.045	1.14	89	132	277	412
4	6	0.045	1.14	0.68	17.3	0.87	22.1	0.96	24.4	0.045	1.14	142	211	361	537
2	6	0.045	1.14	0.77	19.6	0.96	24.4	1.05	26.7	0.045	1.14	211	314	460	685
1	4	0.050	1.27	0.88	22.4	1.07	27.2	1.19	30.2	0.060	1.52	274	408	600	893
1/0	4	0.050	1.27	0.94	23.9	1.14	29.0	1.26	32.0	0.060	1.52	336	500	687	1022
2/0	4	0.050	1.27	1.02	25.9	1.21	30.7	1.33	33.8	0.060	1.52	413	615	794	1182
3/0	4	0.050	1.27	1.12	28.4	1.32	33.5	1.44	36.6	0.060	1.52	511	760	929	1383
4/0	4	0.050	1.27	1.23	31.2	1.42	36.1	1.54	39.1	0.060	1.52	634	943	1094	1628
250	2	0.060	1.52	1.37	34.8	1.63	41.4	1.75	44.5	0.060	1.52	765	1138	1340	1994
300	2	0.060	1.52	1.48	37.6	1.74	44.2	1.86	47.2	0.060	1.52	905	1347	1528	2274
350	2	0.060	1.52	1.57	39.9	1.83	46.5	1.95	49.5	0.060	1.52	1046	1557	1708	2542
400	2	0.060	1.52	1.68	42.7	1.94	49.3	2.06	52.3	0.060	1.52	1186	1765	1894	2819
500	1	0.060	1.52	1.84	46.7	2.11	53.6	2.26	57.4	0.075	1.91	1484	2208	2325	3460
600	1	0.060	1.52	2.01	51.1	2.28	57.9	2.43	61.7	0.075	1.91	1765	2627	2679	3987
750	1/0	0.060	1.52	2.21	56.1	2.48	63.0	2.63	66.8	0.075	1.91	2207	3284	3216	4786
1000	1/0	0.060	1.52	2.54	64.5	2.81	71.4	2.96	75.2	0.075	1.91	2909	4329	4073	6061
FOUR CONDUCTORS WITH BOND															
6	8	0.045	1.14	0.58	14.7	0.78	19.8	0.87	22.1	0.045	1.14	114	170	318	473
4	6	0.045	1.14	0.78	19.8	0.97	24.6	1.06	26.9	0.045	1.14	181	269	435	647
2	6	0.045	1.14	0.89	22.6	1.08	27.4	1.20	30.5	0.060	1.52	273	406	598	890
1	4	0.050	1.27	1.01	25.7	1.21	30.7	1.33	33.8	0.060	1.52	353	525	745	1109
1/0	4	0.050	1.27	1.09	27.7	1.28	32.5	1.40	35.6	0.060	1.52	435	647	850	1265
2/0	4	0.050	1.27	1.16	29.5	1.35	34.3	1.47	37.3	0.060	1.52	538	801	985	1466
3/0	4	0.050	1.27	1.26	32.0	1.45	36.8	1.57	39.9	0.060	1.52	668	994	1158	1723
4/0	4	0.050	1.27	1.38	35.1	1.64	41.7	1.76	44.7	0.060	1.52	832	1238	1415	2106
250	2	0.060	1.52	1.54	39.1	1.80	45.7	1.92	48.8	0.060	1.52	999	1487	1690	2515
300	2	0.060	1.52	1.66	42.2	1.92	48.8	2.04	51.8	0.060	1.52	1186	1765	1934	2878
350	2	0.060	1.52	1.75	44.5	2.02	51.3	2.17	55.1	0.075	1.91	1374	2045	2230	3319
400	2	0.060	1.52	1.88	47.8	2.15	54.6	2.30	58.4	0.075	1.91	1561	2323	2454	3652
500	1	0.060	1.52	2.07	52.6	2.33	59.2	2.48	63.0	0.075	1.91	1952	2905	2936	4369
600	1	0.060	1.52	2.25	57.2	2.52	64.0	2.67	67.8	0.075	1.91	2327	3463	3398	5057
750	1/0	0.060	1.52	2.48	63.0	2.75	69.9	2.90	73.7	0.075	1.91	2909	4329	4096	6096
1000	1/0	0.060	1.52	2.85	72.4	3.11	79.0	3.26	82.8	0.075	1.91	3846	5723	5218	7765

Dimensions and weights are nominal; subject to industry tolerances.



NUAL® Brand AC90 Cable

XLPE

600 V, CSA Type AC90, Aluminum

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 750 kcmil Class B compact stranded aluminum alloy (8000 Series) per ASTM B800 and ASTM B801

Insulation:

- Flame-retardant Cross-linked Polyethylene (XLPE), Type RW90

Print:

- GENERAL CABLE® (PLT. OF MFG.) SIZE (AWG OR KCMIL) AL ACM NUAL® XLPE -40°C 600 V SUN RES CSA YEAR DATE (TIME OF MFG)

Options:

- Other sizes and stranding options available upon request

Applications:

NUAL® Brand AC90 armored cable is designed for the following above-ground applications:

- For service entrance and feeders
- For power lighting and signal circuits
- Indoor locations
- In cable tray
- In dry locations and embedded in plaster finish on brick or other masonry except in damp or wet conditions
- In certain hazardous locations
- Interior temporary power

Features:

- Rated 90°C dry locations
- UV/sunlight-resistant, moisture-resistant and flame-retardant insulation
- Meets cold and bend impact test at -40°C
- Excellent electrical, thermal and physical properties
- Excellent crush, oil and chemical resistance

Compliances:

Industry Compliances:

- CSA C22.2 No. 38
- CSA C22.2 No. 51
- CSA Approved File # LL 28117
- Canadian Electrical Code (CEC)

Other Compliances:

- OSHA Acceptable
- RoHS Compliant

Packaging:

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



COND. SIZE (AWG/kcmil)	BOND SIZE	MIN. AVG. INSULATION THICKNESS		SUB ASSEMBLY		NOM. CABLE DIAMETER OVER ARMOR		ALUMINUM CONDUCTOR WEIGHT		NET WEIGHT	
		INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
SINGLE CONDUCTOR WITH CONCENTRIC BOND											
1/0	4	0.050	1.27	0.55	14.0	0.78	19.8	161	240	271	403
2/0	2	0.050	1.27	0.59	15.0	0.82	20.8	187	278	304	452
3/0	2	0.050	1.27	0.64	16.3	0.86	21.8	219	326	347	516
4/0	2	0.050	1.27	0.70	17.8	0.93	23.6	277	412	416	619
250	1	0.060	1.52	0.76	19.3	0.99	25.1	313	466	470	699
300	1	0.060	1.52	0.81	20.6	1.04	26.4	359	534	528	786
350	1/0	0.060	1.52	0.87	22.1	1.10	27.9	427	635	606	902
750	3/0	0.060	1.52	1.21	30.7	1.44	36.6	860	1280	1099	1635
THREE CONDUCTORS WITH BOND											
6	8	0.045	1.14	0.57	14.5	0.76	19.3	89	132	209	311
4	6	0.045	1.14	0.68	17.3	0.87	22.1	142	211	283	421
2	6	0.045	1.14	0.77	19.6	0.96	24.4	211	314	374	557
1	4	0.050	1.27	0.88	22.4	1.07	27.2	274	408	472	702
1/0	4	0.050	1.27	0.94	23.9	1.14	29.0	336	500	552	821
2/0	4	0.050	1.27	1.02	25.9	1.21	30.7	413	615	650	967
3/0	4	0.050	1.27	1.12	28.4	1.32	33.5	511	760	774	1152
4/0	4	0.050	1.27	1.23	31.2	1.42	36.1	634	943	927	1380
250	2	0.060	1.52	1.37	34.8	1.63	41.4	765	1138	1150	1711
300	2	0.060	1.52	1.48	37.6	1.74	44.2	905	1347	1326	1973
350	2	0.060	1.52	1.57	39.9	1.83	46.5	1046	1557	1495	2225
400	2	0.060	1.52	1.68	42.7	1.94	49.3	1186	1765	1668	2482
500	1	0.060	1.52	1.84	46.7	2.11	53.6	1484	2208	2017	3002
600	1	0.060	1.52	2.01	51.1	2.28	57.9	1765	2627	2347	3493
750	1/0	0.060	1.52	2.21	56.1	2.48	63.0	2207	3284	2856	4250
FOUR CONDUCTORS WITH BOND											
6	8	0.045	1.14	0.58	14.7	0.78	19.8	114	170	248	369
4	6	0.045	1.14	0.78	19.8	0.97	24.6	181	269	181	269
2	6	0.045	1.14	0.89	22.6	1.08	27.4	273	406	273	406
1	4	0.050	1.27	1.01	25.7	1.21	30.7	353	525	602	896
1/0	4	0.050	1.27	1.09	27.7	1.28	32.5	435	647	699	1040
2/0	4	0.050	1.27	1.16	29.5	1.35	34.3	538	801	826	1229
3/0	4	0.050	1.27	1.26	32.0	1.45	36.8	668	994	987	1469
4/0	4	0.050	1.27	1.38	35.1	1.64	41.7	832	1238	1223	1820
250	2	0.060	1.52	1.54	39.1	1.80	45.7	999	1487	1480	2202
300	2	0.060	1.52	1.66	42.2	1.92	48.8	1186	1765	1711	2546
350	2	0.060	1.52	1.75	44.5	2.02	51.3	1374	2045	1935	2880
400	2	0.060	1.52	1.88	47.8	2.15	54.6	1561	2323	2141	3186
500	1	0.060	1.52	2.07	52.6	2.33	59.2	1952	2905	2596	3863
600	1	0.060	1.52	2.25	57.2	2.52	64.0	2327	3463	3032	4512
750	1/0	0.060	1.52	2.48	63.0	2.75	69.9	2909	4329	3698	5503

Dimensions and weights are nominal; subject to industry tolerances.

STABILOY® Brand MC (Metal Clad) Cable

XLPE

600 V, UL Type MC, Multi-Conductor, Aluminum

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)

Markings/Print:

The cable assembly is identified with a marker tape placed under the binder tape

- GENERAL CABLE® TYPE MC-ST1 STABILOY® AA-8030 AL 600 V (UL) FOR CT USE (NOT "ST1" ON JACKETED MC UNLESS SO MARKED) FT4/IEEE 1202 NOM ANCE SEQUENTIAL FOOTAGE

Options:

- 2000 V RHH/RHW-2 is available
- Other sizes and stranding options available upon request
- Custom constructions and oversize neutrals available

Applications:

STABILOY® Brand MC cable is designed for above-ground applications and is approved for use in many applications including cable tray, power lighting and signal circuits as well as in hazardous locations as permitted in NEC Articles 501, 502, 503 and 504. Ideal applications include:

- For services, feeders and branch circuits
- For power lighting and signal circuits
- Indoors
- In cable tray
- In hazardous locations per NEC®
- In dry locations and embedded in plaster finish on brick or other masonry except in damp or wet conditions
- Interior temporary power
- Maximum operating temperature not to exceed 90°C in wet or dry locations

Features:

- Oil Resistant PRI/PRII conductors
- Gas and Oil Res GRI/GRII conductors
- 4 AWG and larger meets cold bend and cold impact tests at -40°C
- Excellent electrical, thermal and physical properties

Compliances:

Industry Compliances:

- UL 1569 Metal-Clad Cables, UL File #E109108
- UL 44 Type XHHW-2
- National Electrical Code (NEC®)

Flame Test Compliances:

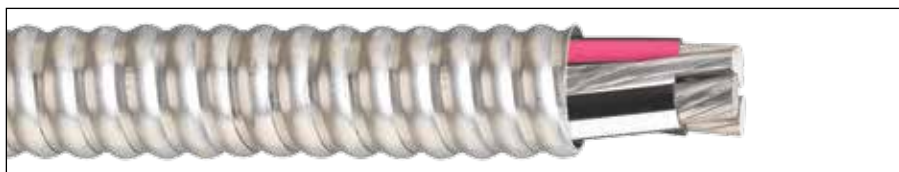
- CT UL 1685
- UL 2556 FT4/IEEE 1202

Other Compliances:

- OSHA Acceptable
- RoHS Compliant

Packaging:

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



CONDUCTOR SIZE (AWG/kcmil)	MINIMUM AVERAGE INSULATION THICKNESS		SUB ASSEMBLY		NOMINAL CABLE DIAMETER OVER ARMOR		ALUMINUM CONDUCTOR WEIGHT		NET WEIGHT	
	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000 FT	kg/km	LBS/1000 FT	kg/km
THREE CONDUCTORS WITH GROUND										
6-6-6-6	0.045	1.14	0.61	15.5	0.84	21.3	99	147	231	344
4-4-4-6	0.045	1.14	0.68	17.3	0.91	23.1	143	213	293	436
2-2-2-6	0.045	1.14	0.77	19.6	1.00	25.4	212	315	384	571
1-1-1-4	0.055	1.40	0.90	22.9	1.13	28.7	276	411	494	735
1/0-1/0-1/0-4	0.055	1.40	0.96	24.4	1.26	32.0	337	502	605	900
2/0-2/0-2/0-4	0.055	1.40	1.04	26.4	1.34	34.0	415	618	706	1051
3/0-3/0-3/0-4	0.055	1.40	1.14	29.0	1.44	36.6	513	763	835	1243
4/0-4/0-4/0-2	0.055	1.40	1.25	31.8	1.55	39.4	660	982	1012	1506
250-250-250-2	0.065	1.65	1.39	35.3	1.68	42.7	768	1143	1182	1759
300-300-300-2*	0.065	1.65	1.50	38.1	1.80	45.7	910	1354	1362	2027
350-350-350-2*	0.065	1.65	1.59	40.4	1.88	47.8	1051	1564	1514	2253
400-400-400-1*	0.065	1.65	1.70	43.2	2.00	50.8	1208	1798	1708	2542
500-500-500-1*	0.065	1.65	1.87	47.5	2.16	54.9	1491	2219	2045	3043
600-600-600-1*	0.080	2.03	2.10	53.3	2.39	60.7	1773	2639	2448	3643
700-700-700-1/0*	0.080	2.03	2.23	56.6	2.53	64.3	2076	3089	2803	4171
750-750-750-1/0	0.080	2.03	2.30	58.4	2.60	66.0	2217	3299	2969	4418
900-900-900-250*	0.080	2.03	2.50	63.5	2.79	70.9	2777	4133	3606	5366
FOUR CONDUCTORS WITH GROUND										
6-6-6-6-6*	0.045	1.14	0.63	16.0	0.86	21.8	123	183	273	406
4-4-4-4-6*	0.045	1.14	0.78	19.8	1.00	25.4	182	271	361	537
2-2-2-2-6	0.045	1.14	0.89	22.6	1.11	28.2	275	409	481	716
1-1-1-1-4	0.055	1.40	1.03	26.2	1.32	33.5	354	527	650	967
1/0-1/0-1/0-1/0-4	0.055	1.40	1.11	28.2	1.40	35.6	437	650	760	1131
2/0-2/0-2/0-2/0-4	0.055	1.40	1.18	30.0	1.48	37.6	540	804	891	1326
3/0-3/0-3/0-3/0-4	0.055	1.40	1.28	32.5	1.58	40.1	671	999	1059	1576
4/0-4/0-4/0-4/0-2	0.055	1.40	1.43	36.3	1.72	43.7	859	1278	1288	1917
250-250-250-250-1	0.065	1.65	1.59	40.4	1.88	47.8	1020	1518	1527	2272
300-300-300-300-1	0.065	1.65	1.69	42.9	1.99	50.5	1208	1798	1760	2619
350-350-350-350-1/0	0.065	1.65	1.81	46.0	2.11	53.6	1417	2109	2012	2994
400-400-400-400-1/0*	0.065	1.65	1.92	48.8	2.21	56.1	1605	2389	2215	3296
500-500-500-500-2/0	0.065	1.65	2.11	53.6	2.40	61.0	2008	2988	2687	3999
500-500-500-500-250*	0.065	1.65	2.25	57.2	2.54	64.5	2118	3152	2820	4197
600-600-600-600-2/0*	0.080	2.03	2.35	59.7	2.64	67.1	2384	3548	3215	4784
600-600-600-600-400	0.080	2.03	2.61	66.3	2.90	73.7	2635	3921	3509	5222
700-700-700-700-2/0*	0.080	2.03	2.50	63.5	2.80	71.1	2761	4109	3656	5441
750-750-750-750-3/0	0.080	2.03	2.58	65.5	2.87	72.9	2982	4438	3909	5817
750-750-750-750-750*	0.080	2.03	3.04	77.2	3.34	84.8	3529	5252	4538	6753
900-900-900-900-250*	0.080	2.03	2.83	71.9	3.13	79.5	3624	5393	4651	6921
900-900-900-900-900*	0.080	2.03	3.32	84.3	3.60	91.4	4235	6302	5348	7959

Dimensions and weights are nominal; subject to industry tolerances.

* Non-stock item; minimum runs apply. Please consult Customer Service for price and delivery.

GRAVITYGRIP® MC CLAMP			
PIN	PRODUCT DESCRIPTION	PIN	PRODUCT DESCRIPTION
160234	GravityGrip® MC Clamp Range: 1.35 - 1.65"	177475	GravityGrip® MC Clamp Range: 2.50 - 2.75"
164727	GravityGrip® MC Clamp Range: 1.65 - 2.00"	156670	GravityGrip® MC Clamp Range: 2.75 - 3.00"
132262	GravityGrip® MC Clamp Range: 2.00 - 2.25"	182048	GravityGrip® MC Clamp Range: 3.00 - 3.25"
188993	GravityGrip® MC Clamp Range: 2.25 - 2.50"		

Use the GravityGrip® per NEC® recommendations.

Secure MC Cable without the risk of damage to conductors or running the risk of conductor pull-out.

Environmental Product Declaration



According to
ISO 14025, EN 15804+A2,
ISO 14040, ISO 14044

Prysmian Low Voltage Aluminum Armor Cable

Industrial and Construction Cables

Placing on the Market / Application Rules

The standards that can be applied for STABILOY® Brand MC (Metal Clad) Cable are:

- ASTM B800, ASTM B801, ASTM B836
- UL 1569 Metal-Clad Cables
- UL 44 Type XHHW-2
- National Electrical Code (NEC®)
- CT UL 1685
- UL 2556 FT4/IEEE 1202
- OSHA Acceptable
- RoHS Compliant

The standards that can be applied for NUAL® Brand ACWU90 Cable are:

- ASTM B800, ASTM B801, ASTM B836
- CSA C22.2 No. 38
- CSA C22.2 No. 51
- CSA C22.2 No. 174 (Hazardous Locations)
- Canadian Electrical Code (CEC)
- CSA FT1 and FT4
- OSHA Acceptable
- RoHS Compliant

Properties of Declared Product as Shipped

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

Environmental Product Declaration



According to
ISO 14025, EN 15804+A2,
ISO 14040, ISO 14044

Prysmian Low Voltage Aluminum Armor Cable
Industrial and Construction Cables

Methodological Framework

Functional Unit

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	8478	kg
Conversion factor to 1 kg	0.0001	-

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 Metal Clad Cable 900 kcmil, 4-Conductor with 900 kcmil Drain Wirecable is 40 years.

Environmental Product Declaration



According to
ISO 14025, EN 15804+A2,
ISO 14040, ISO 14044

Prysmian Low Voltage Aluminum Armor Cable
Industrial and Construction Cables

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.

Environmental Product Declaration



According to
ISO 14025, EN 15804+A2,
ISO 14040, ISO 14044

Prysmian Low Voltage Aluminum Armor Cable
Industrial and Construction Cables

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.

Environmental Product Declaration



According to
ISO 14025, EN 15804+A2,
ISO 14040, ISO 14044

Prysmian Low Voltage Aluminum Armor Cable
Industrial and Construction Cables

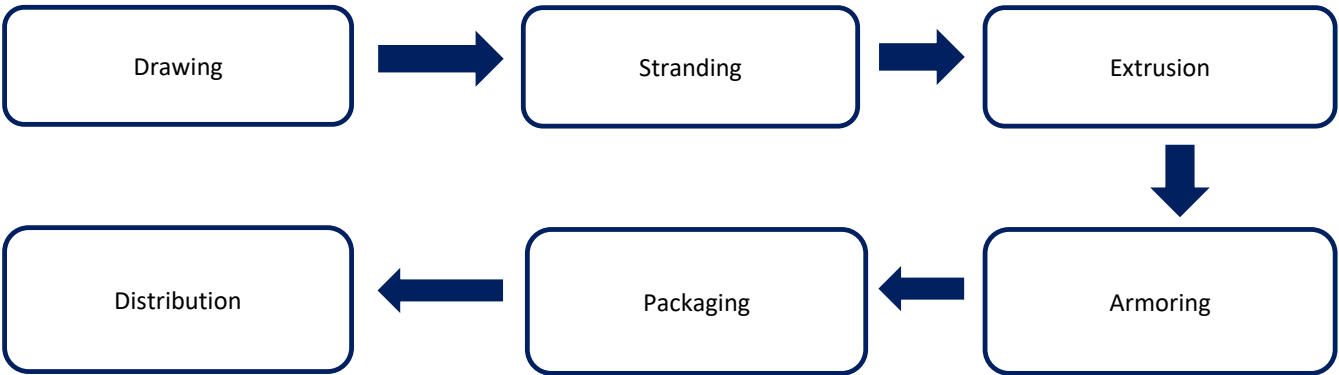
Additional Environmental Information

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.



Environmental Product Declaration



According to
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Packaging

All packaging is fully recyclable. The packaging material is composed of a wooden or steel reel.

Material	Quantity (% By Weight)
	Maximum
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	8478	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	4.24E+02	kg
Waste materials at construction site	4.54E+02	kg
Output substance (recycle)	2.56E+02	kg
Output substance (landfill)	1.68E+02	kg
Output substance (incineration)	0.00E+00	kg
Packaging waste (recycle)	0.00E+00	kg
Packaging waste (landfill)	1.48E+01	kg
Packaging waste (incineration)	1.48E+01	kg
Direct emissions to ambient air*, soil, and water	5.47E+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	-

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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	23.88	kWh
Other energy carriers	-	MJ
Equipment output	-	kW
Direct emissions to ambient air, soil, and water	-	kg

Disposal

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

End of life (C1-C4)		
Name	Max	Unit
Collected separately	5.12E+03	kg
Collected as mixed construction waste	3.35E+03	kg
Reuse	0.00E+00	kg
Recycling	5.12E+03	kg
Landfilling	3.35E+03	kg
Incineration with energy recovery	0.00E+00	kg
Removals of biogenic carbon	-	kg

Environmental Product Declaration



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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.

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Prysmian Low Voltage Aluminum Armor Cable
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LCA Results - Maximum Impact - Results for STABILOY® Aluminum Metal Clad Cable 900 kcmil, 4-Conductor with 900 kcmil Drain Wire

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 Armor Cable with the highest impact, which is the STABILOY Aluminum Metal Clad Cable 900KCMIL, 4-Conductor with 900 KCMIL Drain Wire. 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.	5.69E+04	6.29E+02	3.92E+03	1.08E+01	3.35E-03	1.18E+03	3.26E+01	-5.33E+04	6.27E+04
ODP	Depletion potential of the stratospheric ozone layer	kg CFC-11 Eq.	6.52E-05	2.38E-08	3.29E-06	1.25E-12	1.27E-13	9.63E-13	1.77E-12	9.94E-09	6.85E-05
AP Air	Acidification potential for air emissions	kg SO ₂ -Eq.	3.93E+02	3.78E+00	2.48E+01	1.37E-02	2.01E-05	3.47E-01	2.04E-01	-1.63E+02	4.22E+02
EP	Eutrophication potential	kg N-Eq.	6.68E+00	2.09E-01	7.22E-01	1.13E-03	1.11E-06	9.70E-03	9.06E-03	-9.70E+00	7.63E+00
SP	Smog formation potential	kg O ₃ -Eq.	3.17E+03	1.04E+02	2.96E+02	1.99E-01	5.54E-04	2.36E+00	3.80E+00	-3.09E+03	3.58E+03
FFD	Fossil Fuel Depletion	MJ-surplus	5.04E+04	1.11E+03	4.00E+03	1.16E+01	5.92E-03	5.72E+01	5.57E+01	-4.59E+04	5.57E+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.	5.63E+04	6.30E+02	3.92E+03	1.09E+01	3.36E-03	1.18E+03	3.29E+01	-5.34E+04	6.20E+04
ODP	Depletion potential of the stratospheric ozone layer	kg CFC-11 Eq.	6.38E-05	2.37E-08	3.22E-06	7.41E-11	1.26E-13	5.69E-11	1.04E-10	-4.32E-07	6.70E-05
AP Air	Acidification potential for air emissions	kg SO ₂ -Eq.	4.24E+02	3.10E+00	2.53E+01	1.31E-02	1.65E-05	2.89E-01	1.90E-01	-1.50E+02	4.53E+02
EP	Eutrophication potential	kg(PO ₄) ³ -Eq.	1.72E+01	5.53E-01	1.93E+00	1.45E-03	2.94E-06	2.52E-02	2.14E-02	-1.86E+01	1.98E+01
POCP	Formation potential of tropospheric ozone photochemical oxidants	kg ethane-Eq.	3.09E+01	3.62E-01	2.10E+00	1.13E-03	1.93E-06	9.76E-03	1.54E-02	-1.24E+01	3.33E+01
ADPE	Abiotic depletion potential for non-fossil resources	kg Sb-Eq.	9.19E-03	2.61E-07	4.60E-04	1.31E-06	1.39E-12	9.31E-06	1.02E-05	-2.24E-02	9.67E-03
ADPF	Abiotic depletion potential for fossil resources	MJ	7.00E+05	8.02E+03	4.56E+04	1.31E+02	4.27E-02	5.42E+02	4.21E+02	-5.03E+05	7.55E+05

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

Environmental Product Declaration



According to
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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.	5.71E+04	6.32E+02	3.77E+03	1.10E+01	3.36E-03	1.18E+03	3.31E+01	-5.37E+04	6.27E+04
GWP-fossil	Climate change - fossil	kg CO ₂ -Eq.	5.71E+04	6.32E+02	3.71E+03	1.10E+01	3.36E-03	1.18E+03	3.29E+01	-5.37E+04	6.27E+04
GWP-biogenic	Climate change - biogenic	kg CO ₂ -Eq.	-5.47E+01	0.00E+00	5.47E+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.	5.64E-01	0.00E+00	6.77E-02	1.12E-03	0.00E+00	3.07E-02	1.97E-01	-1.04E+01	8.61E-01
ODP	Ozone depletion	kg CFC-11 Eq.	6.46E-05	1.64E-08	3.25E-06	6.29E-11	8.72E-14	4.84E-11	8.87E-11	-3.66E-07	6.78E-05
AP	Acidification	mol H ⁺ Eq.	4.78E+02	4.18E+00	2.94E+01	1.48E-02	2.23E-05	1.90E-01	2.34E-01	-1.82E+02	5.12E+02
EP-freshwater	Eutrophication aquatic freshwater	kg P-Eq.	2.43E-02	1.80E-04	1.03E-02	6.08E-06	9.57E-10	1.82E-05	7.51E-05	-7.39E-02	3.49E-02
EP-marine	Eutrophication aquatic marine	kg N Eq.	4.88E+01	1.61E+00	4.63E+00	3.28E-03	8.57E-06	4.06E-02	6.02E-02	-4.94E+01	5.52E+01
EP-terrestrial	Eutrophication terrestrial	mol N Eq.	5.33E+02	1.76E+01	4.98E+01	3.55E-02	9.35E-05	8.70E-01	6.63E-01	-5.38E+02	6.02E+02
POCP	Photochemical ozone formation	NMVOE Eq.	1.81E+02	4.74E+00	1.54E+01	9.60E-03	2.53E-05	1.13E-01	1.84E-01	-1.38E+02	2.01E+02
ADP-minerals&metals	Depletion of abiotic resources - minerals and metals	kg Sb Eq.	8.47E-04	0.00E+00	4.14E-05	1.06E-06	0.00E+00	3.34E-06	2.13E-06	-5.11E-03	8.95E-04
ADP-fossil	Depletion of abiotic resources - fossil fuels	mol N Eq.	7.27E+05	8.09E+03	4.70E+04	1.83E+02	4.31E-02	5.70E+02	4.34E+02	-6.15E+05	7.83E+05
WDP	Water use	m ³ world Eq. deprived	6.36E+02	0.00E+00	3.05E+01	2.17E+00	0.00E+00	9.21E+01	3.76E+00	-8.96E+03	7.65E+02
PM	Particulate matter emissions	Disease incidence	7.33E-03	1.65E-05	3.89E-04	1.37E-07	8.79E-11	2.15E-06	2.93E-06	-3.98E-03	7.74E-03
IRP	Ionizing radiation, human health	kBq U235 Eq.	4.22E+02	1.42E-16	1.60E+01	1.51E+00	7.57E-22	8.68E-01	5.26E-01	-4.12E+03	4.41E+02
ETP-fw	Ecotoxicity (freshwater)	CTUe	3.44E+05	1.17E+04	3.28E+04	2.92E+01	6.24E-02	5.61E+02	2.89E+02	-1.46E+05	3.89E+05
HTP-c	Human toxicity, cancer effects	CTUh	5.67E-06	1.70E-07	5.11E-07	1.45E-09	9.06E-13	1.49E-08	5.91E-09	-4.10E-05	6.37E-06
HTP-nc	Human toxicity, non-cancer effects	CTUh	3.72E-04	1.16E-05	3.42E-05	2.48E-08	6.17E-11	1.34E-06	2.28E-07	-4.72E-04	4.19E-04
SQP	Land use related impacts/Soil quality	dimensionless	2.05E+03	0.00E+00	4.63E+01	2.03E+01	0.00E+00	5.12E+01	1.19E+02	-1.28E+05	2.28E+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	4.16E+03	0.00E+00	8.57E+01	4.71E+01	0.00E+00	3.61E+01	7.57E+01	-4.03E+05	4.40E+03
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	7.26E+05	8.09E+03	4.70E+04	1.83E+02	4.31E-02	5.70E+02	4.34E+02	-6.15E+05	7.82E+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	1.91E+01	0.00E+00	8.85E-01	6.61E-02	0.00E+00	2.16E+00	1.15E-01	-2.74E+02	2.23E+01

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

Environmental Product Declaration



According to
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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	1.11E-04	0.00E+00	5.28E-06	1.06E-07	0.00E+00	9.71E-08	1.08E-07	-4.36E-04	1.17E-04
NHWD	Non-hazardous waste disposed	kg	6.58E+02	0.00E+00	3.75E+02	5.24E-02	0.00E+00	1.03E+02	2.20E+03	-2.42E+04	3.34E+03
HLRW	High-level radioactive waste	kg	5.10E+00	0.00E+00	2.24E-01	1.82E-02	0.00E+00	1.00E-02	4.55E-03	-4.06E+01	5.35E+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	2.56E+02	0.00E+00	0.00E+00	0.00E+00	5.12E+03	0.00E+00	5.38E+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	2.01E+02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	2.01E+02

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

Environmental Product Declaration

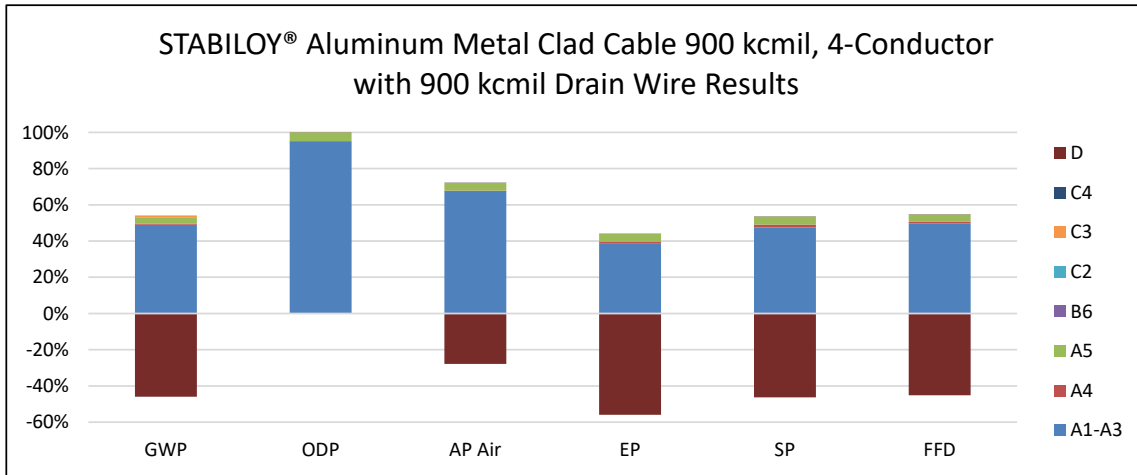
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LCA Interpretation - Maximum Impact

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.

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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.

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 product below, 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
NUAL® AC90 6 AWG/3C + 8 AWG GRD	4.47E-02	*	5.69E+04	=	2.55E+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 categories. 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 product below's B6 GWP, you would follow the equation below:

	Scaling Factor	*	Results	*	Amperage- squared	=	Final GWP
NUAL® AC90 6 AWG/3C + 8 AWG GRD	2.80E+01	*	1.08E+01	*	100 ²	=	3.03E+06

	A1 - A3							A4	A5	B6	C2 - D
	GWP	ODP	AP	EP	PCOP	FFD/ADP	Resources				
NUAL® AC90 6 AWG/3C + 8 AWG GRD	4.47E-02	3.59E-02	3.87E-02	4.44E-02	4.12E-02	5.08E-02	5.81E-02	4.78E-02	4.78E-02	2.80E+01	4.78E-02
NUAL® AC90 4 AWG/3C + 6 AWG GRD	6.09E-02	5.11E-02	5.41E-02	6.05E-02	5.70E-02	6.76E-02	7.58E-02	6.43E-02	6.43E-02	1.76E+01	6.43E-02
NUAL® AC90 2 AWG/4C + 6 AWG GRD	9.81E-02	8.21E-02	8.70E-02	9.75E-02	9.17E-02	1.09E-01	1.22E-01	1.04E-01	1.04E-01	1.27E+01	1.04E-01
NUAL® AC90 1 AWG/4C + 4 AWG GRD	1.23E-01	1.05E-01	1.10E-01	1.23E-01	1.16E-01	1.36E-01	1.52E-01	1.30E-01	1.30E-01	9.41E+00	1.30E-01
NUAL® AC90 1/0 AWG/3C + 4 AWG GRD	1.14E-01	9.91E-02	1.04E-01	1.13E-01	1.08E-01	1.23E-01	1.36E-01	1.19E-01	1.19E-01	8.68E+00	1.19E-01
NUAL® AC90 2/0 AWG/3C + 4 AWG GRD	1.32E-01	1.18E-01	1.22E-01	1.32E-01	1.26E-01	1.43E-01	1.55E-01	1.38E-01	1.38E-01	6.50E+00	1.38E-01
NUAL® AC90 4/0 AWG/3C + 4 AWG GRD	1.86E-01	1.70E-01	1.75E-01	1.85E-01	1.79E-01	1.97E-01	2.10E-01	1.91E-01	1.91E-01	3.71E+00	1.91E-01
NUAL® AC90 500 kcmil/3C + 1 AWG GRD	4.03E-01	3.78E-01	3.86E-01	4.03E-01	3.93E-01	4.21E-01	4.42E-01	4.12E-01	4.12E-01	1.75E+00	4.12E-01
NUAL® AC90 500 kcmil/4C + 1 AWG GRD	5.21E-01	4.86E-01	4.97E-01	5.20E-01	5.08E-01	5.46E-01	5.75E-01	5.34E-01	5.34E-01	1.75E+00	5.34E-01
NUAL® ACWU90 6 AWG/3C + 8 AWG GRD	5.58E-02	3.59E-02	4.21E-02	5.51E-02	4.79E-02	6.95E-02	8.61E-02	6.27E-02	6.27E-02	2.80E+01	6.27E-02
NUAL® ACWU90 6 AWG/4C + 8 AWG GRD	6.70E-02	4.27E-02	5.02E-02	6.61E-02	5.73E-02	8.36E-02	1.04E-01	7.54E-02	7.54E-02	2.80E+01	7.54E-02

Environmental Product Declaration



According to
ISO 14025, EN 15804+A2,
ISO 14040, ISO 14044

Prysmian Low Voltage Aluminum Armor Cable
Industrial and Construction Cables

	A1 - A3							A4	A5	B6	C2 - D
	GWP	ODP	AP	EP	PCOP	FFD/ADP	Resources				
NUAL® ACWU90 4 AWG/3C + 6 AWG GRD	7.42E-02	5.10E-02	5.82E-02	7.34E-02	6.50E-02	9.02E-02	1.10E-01	8.23E-02	8.23E-02	1.76E+01	8.23E-02
NUAL® ACWU90 4 AWG/4C + 6 AWG GRD	8.98E-02	6.15E-02	7.02E-02	8.87E-02	7.85E-02	1.09E-01	1.33E-01	9.97E-02	9.97E-02	1.76E+01	9.97E-02
NUAL® ACWU90 2 AWG/3C + 6 AWG GRD	9.20E-02	6.66E-02	7.45E-02	9.11E-02	8.19E-02	1.09E-01	1.31E-01	1.01E-01	1.01E-01	1.27E+01	1.01E-01
NUAL® ACWU90 2 AWG/4C + 6 AWG GRD	1.18E-01	8.21E-02	9.33E-02	1.17E-01	1.04E-01	1.43E-01	1.74E-01	1.31E-01	1.31E-01	1.27E+01	1.31E-01
NUAL® ACWU90 1 AWG/3C + 4 AWG GRD	1.20E-01	8.45E-02	9.55E-02	1.19E-01	1.06E-01	1.44E-01	1.74E-01	1.32E-01	1.32E-01	9.41E+00	1.32E-01
NUAL® ACWU90 1 AWG/4C + 4 AWG GRD	1.47E-01	1.04E-01	1.17E-01	1.45E-01	1.30E-01	1.76E-01	2.12E-01	1.62E-01	1.62E-01	9.41E+00	1.62E-01
NUAL® ACWU90 1/0 AWG/3C + 4 AWG GRD	1.38E-01	9.97E-02	1.12E-01	1.36E-01	1.23E-01	1.64E-01	1.96E-01	1.51E-01	1.51E-01	8.68E+00	1.51E-01
NUAL® ACWU90 1/0 AWG/4C + 4 AWG GRD	1.70E-01	1.24E-01	1.38E-01	1.68E-01	1.51E-01	2.02E-01	2.40E-01	1.86E-01	1.86E-01	8.68E+00	1.86E-01
NUAL® ACWU90 2/0 AWG/3C + 4 AWG GRD	1.53E-01	1.15E-01	1.27E-01	1.52E-01	1.38E-01	1.80E-01	2.12E-01	1.67E-01	1.67E-01	6.50E+00	1.67E-01
NUAL® ACWU90 3/0 AWG/3C + 4 AWG GRD	1.79E-01	1.38E-01	1.51E-01	1.78E-01	1.63E-01	2.07E-01	2.41E-01	1.93E-01	1.93E-01	4.70E+00	1.93E-01
NUAL® ACWU90 3/0 AWG/4C + 4 AWG GRD	2.32E-01	1.81E-01	1.97E-01	2.30E-01	2.12E-01	2.66E-01	3.08E-01	2.49E-01	2.49E-01	4.70E+00	2.49E-01
NUAL® ACWU90 4/0 AWG/3C + 4 AWG GRD	2.17E-01	1.73E-01	1.87E-01	2.16E-01	2.00E-01	2.47E-01	2.84E-01	2.33E-01	2.33E-01	3.71E+00	2.33E-01
NUAL® ACWU90 4/0 AWG/4C + 4 AWG GRD	2.72E-01	2.20E-01	2.36E-01	2.70E-01	2.51E-01	3.08E-01	3.53E-01	2.91E-01	2.91E-01	3.71E+00	2.91E-01
NUAL® ACWU90 250 kcmil/1C	1.04E-01	8.53E-02	9.11E-02	1.03E-01	9.66E-02	1.17E-01	1.33E-01	1.11E-01	1.11E-01	3.56E+00	1.11E-01
NUAL® ACWU90 250 kcmil/3C + 2 AWG GRD	2.57E-01	2.05E-01	2.21E-01	2.56E-01	2.37E-01	2.94E-01	3.38E-01	2.76E-01	2.76E-01	3.56E+00	2.76E-01
NUAL® ACWU90 250 kcmil/4C + 2 AWG GRD	3.23E-01	2.59E-01	2.79E-01	3.21E-01	2.98E-01	3.67E-01	4.21E-01	3.45E-01	3.45E-01	3.56E+00	3.45E-01
NUAL® ACWU90 300 kcmil/3C + 2 AWG GRD	2.97E-01	2.42E-01	2.59E-01	2.95E-01	2.75E-01	3.34E-01	3.80E-01	3.16E-01	3.16E-01	2.99E+00	3.16E-01
NUAL® ACWU90 300 kcmil/4C + 2 AWG GRD	3.74E-01	3.08E-01	3.29E-01	3.72E-01	3.48E-01	4.20E-01	4.76E-01	3.98E-01	3.98E-01	2.99E+00	3.98E-01
NUAL® ACWU90 350 kcmil/1C	1.36E-01	1.11E-01	1.19E-01	1.35E-01	1.26E-01	1.54E-01	1.75E-01	1.45E-01	1.45E-01	2.54E+00	1.45E-01
NUAL® ACWU90 350 kcmil/3C + 2 AWG GRD	3.27E-01	2.71E-01	2.88E-01	3.25E-01	3.05E-01	3.66E-01	4.13E-01	3.47E-01	3.47E-01	2.54E+00	3.47E-01
NUAL® ACWU90 350 kcmil/4C + 2 AWG GRD	4.23E-01	3.46E-01	3.70E-01	4.21E-01	3.93E-01	4.77E-01	5.43E-01	4.51E-01	4.51E-01	2.54E+00	4.51E-01
NUAL® ACWU90 400 kcmil/3C + 2 AWG GRD	3.56E-01	2.93E-01	3.13E-01	3.54E-01	3.31E-01	4.00E-01	4.53E-01	3.79E-01	3.79E-01	2.22E+00	3.79E-01
NUAL® ACWU90 500 kcmil/3C + 1 AWG GRD	4.52E-01	3.78E-01	4.01E-01	4.50E-01	4.23E-01	5.04E-01	5.66E-01	4.79E-01	4.79E-01	1.75E+00	4.79E-01
NUAL® ACWU90 500 kcmil/4C + 1 AWG GRD	5.75E-01	4.86E-01	5.14E-01	5.72E-01	5.40E-01	6.37E-01	7.12E-01	6.07E-01	6.07E-01	1.75E+00	6.07E-01
NUAL® ACWU90 600 kcmil/3C + 1 AWG GRD	5.22E-01	4.44E-01	4.68E-01	5.19E-01	4.91E-01	5.76E-01	6.42E-01	5.49E-01	5.49E-01	1.46E+00	5.49E-01
NUAL® ACWU90 600 kcmil/4C + 1 AWG GRD	6.66E-01	5.73E-01	6.02E-01	6.63E-01	6.29E-01	7.31E-01	8.10E-01	6.99E-01	6.99E-01	1.46E+00	6.99E-01
NUAL® ACWU90 750 kcmil/1C	2.49E-01	2.18E-01	2.27E-01	2.48E-01	2.37E-01	2.70E-01	2.96E-01	2.60E-01	2.60E-01	1.21E+00	2.60E-01
NUAL® ACWU90 750 kcmil/3C + 1/0 AWG GRD	6.25E-01	5.45E-01	5.70E-01	6.22E-01	5.94E-01	6.81E-01	7.48E-01	6.54E-01	6.54E-01	1.21E+00	6.54E-01
NUAL® ACWU90 750 kcmil/4C + 1/0 AWG GRD	8.01E-01	7.05E-01	7.35E-01	7.97E-01	7.63E-01	8.67E-01	9.48E-01	8.35E-01	8.35E-01	1.21E+00	8.35E-01
NUAL® ACWU90 1000 kcmil/1C GRD	3.08E-01	2.75E-01	2.85E-01	3.07E-01	2.95E-01	3.31E-01	3.58E-01	3.20E-01	3.20E-01	8.78E-01	3.20E-01

Environmental Product Declaration



According to
ISO 14025, EN 15804+A2,
ISO 14040, ISO 14044

Prysmian Low Voltage Aluminum Armor Cable
Industrial and Construction Cables

	A1 - A3							A4	A5	B6	C2 - D
	GWP	ODP	AP	EP	PCOP	FFD/ADP	Resources				
STABILOY® AL MC 6 AWG/3C + 6 AWG GRD NO JKT	4.33E-02	3.96E-02	4.07E-02	4.32E-02	4.17E-02	4.58E-02	4.92E-02	4.44E-02	4.44E-02	2.80E+01	4.44E-02
STABILOY® AL MC 6 AWG/4C + 6 AWG GRD NO JKT	5.24E-02	4.66E-02	4.84E-02	5.21E-02	4.99E-02	5.61E-02	6.14E-02	5.40E-02	5.40E-02	2.80E+01	5.40E-02
STABILOY® AL MC 4 AWG/3C + 6 AWG GRD NO JKT	5.55E-02	5.14E-02	5.26E-02	5.53E-02	5.37E-02	5.82E-02	6.21E-02	5.66E-02	5.66E-02	1.76E+01	5.66E-02
STABILOY® AL MC 4 AWG/4C + 6 AWG GRD NO JKT	6.82E-02	6.18E-02	6.38E-02	6.79E-02	6.54E-02	7.23E-02	7.82E-02	6.99E-02	6.99E-02	1.76E+01	6.99E-02
STABILOY® AL MC 2 AWG/3C + 6 AWG GRD NO JKT	7.24E-02	6.88E-02	6.99E-02	7.22E-02	7.09E-02	7.47E-02	7.78E-02	7.35E-02	7.35E-02	1.27E+01	7.35E-02
STABILOY® AL MC 2 AWG/3C + 6 AWG GRD JKT	8.66E-02	6.70E-02	7.31E-02	8.59E-02	7.87E-02	1.00E-01	1.17E-01	9.34E-02	9.34E-02	1.27E+01	9.34E-02
STABILOY® AL MC 2 AWG/4C + 4 AWG GRD NO JKT	9.35E-02	8.80E-02	8.97E-02	9.32E-02	9.11E-02	9.71E-02	1.02E-01	9.52E-02	9.52E-02	1.27E+01	9.52E-02
STABILOY® AL MC 2 AWG/4C + 6 AWG GRD NO JKT	8.84E-02	8.24E-02	8.43E-02	8.81E-02	8.58E-02	9.23E-02	9.74E-02	9.02E-02	9.02E-02	1.27E+01	9.02E-02
STABILOY® AL MC 1 AWG/3C + 4 AWG GRD NO JKT	9.04E-02	8.55E-02	8.70E-02	9.02E-02	8.83E-02	9.37E-02	9.79E-02	9.19E-02	9.19E-02	9.41E+00	9.19E-02
STABILOY® AL MC 1 AWG/3C + 4 AWG GRD JKT	1.09E-01	8.54E-02	9.28E-02	1.09E-01	9.98E-02	1.26E-01	1.46E-01	1.18E-01	1.18E-01	9.41E+00	1.18E-01
STABILOY® AL MC 1 AWG/4C + 4 AWG GRD NO JKT	1.19E-01	1.12E-01	1.15E-01	1.19E-01	1.16E-01	1.24E-01	1.30E-01	1.22E-01	1.22E-01	9.41E+00	1.22E-01
STABILOY® AL MC 1/0 AWG/3C + 4 AWG GRD NO JKT	1.03E-01	9.80E-02	9.95E-02	1.03E-01	1.01E-01	1.06E-01	1.11E-01	1.05E-01	1.05E-01	8.68E+00	1.05E-01
STABILOY® AL MC 1/0 AWG/3C + 4 AWG GRD JKT	1.22E-01	9.80E-02	1.05E-01	1.21E-01	1.12E-01	1.38E-01	1.58E-01	1.30E-01	1.30E-01	8.68E+00	1.30E-01
STABILOY® AL MC 1/0 AWG/4C + 4 AWG GRD NO JKT	1.33E-01	1.25E-01	1.28E-01	1.33E-01	1.30E-01	1.39E-01	1.46E-01	1.36E-01	1.36E-01	8.68E+00	1.36E-01
STABILOY® AL MC 1/0 AWG/4C + 4 AWG GRD JKT	1.50E-01	1.22E-01	1.30E-01	1.49E-01	1.39E-01	1.69E-01	1.94E-01	1.60E-01	1.60E-01	8.68E+00	1.60E-01
STABILOY® AL MC 2/0 AWG/3C + 4 AWG GRD NO JKT	1.21E-01	1.16E-01	1.18E-01	1.21E-01	1.19E-01	1.24E-01	1.28E-01	1.22E-01	1.22E-01	6.50E+00	1.22E-01
STABILOY® AL MC 2/0 AWG/3C + 4 AWG GRD JKT	1.41E-01	1.16E-01	1.24E-01	1.40E-01	1.31E-01	1.57E-01	1.78E-01	1.49E-01	1.49E-01	6.50E+00	1.49E-01
STABILOY® AL MC 2/0 AWG/4C + 4 AWG GRD JKT	1.86E-01	1.52E-01	1.62E-01	1.85E-01	1.72E-01	2.09E-01	2.38E-01	1.98E-01	1.98E-01	6.50E+00	1.98E-01
STABILOY® AL MC 3/0 AWG/3C + 4 AWG GRD JKT	1.65E-01	1.39E-01	1.47E-01	1.64E-01	1.55E-01	1.82E-01	2.04E-01	1.73E-01	1.73E-01	4.70E+00	1.73E-01
STABILOY® AL MC 3/0 AWG/4C + 4 AWG GRD NO JKT	1.94E-01	1.88E-01	1.90E-01	1.94E-01	1.91E-01	1.98E-01	2.04E-01	1.96E-01	1.96E-01	4.70E+00	1.96E-01
STABILOY® AL MC 4/0 AWG/3C + 2 AWG GRD NO JKT	1.81E-01	1.79E-01	1.80E-01	1.81E-01	1.80E-01	1.82E-01	1.83E-01	1.81E-01	1.81E-01	3.71E+00	1.81E-01
STABILOY® AL MC 250 kcmil/3C + 1 AWG GRD NO JKT	2.24E-01	2.14E-01	2.17E-01	2.23E-01	2.20E-01	2.30E-01	2.37E-01	2.26E-01	2.26E-01	3.56E+00	2.26E-01
STABILOY® AL MC 250 kcmil/3C + 2 AWG GRD NO JKT	2.16E-01	2.11E-01	2.13E-01	2.16E-01	2.14E-01	2.19E-01	2.23E-01	2.17E-01	2.17E-01	3.56E+00	2.17E-01
STABILOY® AL MC 250 kcmil/4C + 1 AWG GRD NO JKT	2.78E-01	2.71E-01	2.73E-01	2.78E-01	2.75E-01	2.83E-01	2.89E-01	2.80E-01	2.80E-01	3.56E+00	2.80E-01
STABILOY® AL MC 250 kcmil/4C + 1 AWG GRD JKT	3.05E-01	2.64E-01	2.77E-01	3.04E-01	2.89E-01	3.34E-01	3.69E-01	3.20E-01	3.20E-01	3.56E+00	3.20E-01
STABILOY® AL MC 250 kcmil/4C + 1/0 AWG GRD NO JKT	2.86E-01	2.74E-01	2.77E-01	2.85E-01	2.80E-01	2.93E-01	3.03E-01	2.89E-01	2.89E-01	3.56E+00	2.89E-01

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Industrial and Construction Cables

	A1 - A3							A4	A5	B6	C2 - D
	GWP	ODP	AP	EP	PCOP	FFD/ADP	Resources				
STABILOY® AL MC 250 kcmil/4C + 3/0 AWG GRD NO JKT	2.91E-01	2.86E-01	2.88E-01	2.91E-01	2.89E-01	2.94E-01	2.99E-01	2.93E-01	2.93E-01	3.56E+00	2.93E-01
STABILOY® AL MC 300 kcmil/4C + 1 AWG GRD NO JKT	3.24E-01	3.19E-01	3.20E-01	3.23E-01	3.22E-01	3.27E-01	3.31E-01	3.25E-01	3.25E-01	2.99E+00	3.25E-01
STABILOY® AL MC 300 kcmil/4C + 1 AWG GRD JKT	3.55E-01	3.13E-01	3.26E-01	3.53E-01	3.38E-01	3.83E-01	4.19E-01	3.69E-01	3.69E-01	2.99E+00	3.69E-01
STABILOY® AL MC 300 kcmil/4C + 1/0 AWG GRD NO JKT	3.29E-01	3.25E-01	3.26E-01	3.28E-01	3.27E-01	3.31E-01	3.35E-01	3.30E-01	3.30E-01	2.99E+00	3.30E-01
STABILOY® AL MC 350 kcmil/3C + 1 AWG GRD NO JKT	2.87E-01	2.81E-01	2.83E-01	2.87E-01	2.84E-01	2.92E-01	2.97E-01	2.89E-01	2.89E-01	2.54E+00	2.89E-01
STABILOY® AL MC 350 kcmil/3C + 1/0 AWG GRD NO JKT	2.82E-01	2.80E-01	2.80E-01	2.82E-01	2.81E-01	2.83E-01	2.85E-01	2.82E-01	2.82E-01	2.54E+00	2.82E-01
STABILOY® AL MC 350 kcmil/3C + 2 AWG GRD NO JKT	2.73E-01	2.72E-01	2.72E-01	2.73E-01	2.73E-01	2.74E-01	2.76E-01	2.74E-01	2.74E-01	2.54E+00	2.74E-01

Environmental Product Declaration



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ISO 14040, ISO 14044

Prysmian Low Voltage Aluminum Armor Cable
Industrial and Construction Cables

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

Environmental Product Declaration



According to
ISO 14025, EN 15804+A2,
ISO 14040, ISO 14044

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Industrial and Construction Cables

References

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Environmental Product Declaration



According to
ISO 14025, EN 15804+A2,
ISO 14040, ISO 14044

Prysmian Low Voltage Aluminum Armor Cable
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Contact Information

Study Commissioner



- For more information, visit our website at
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