

# Environmental Product Declaration

## CommScope® Indoor/Outdoor LSZH GRP Armored Communication and Data Wires and Cables



### COMMScope®

At CommScope, we believe that corporate responsibility and sustainability means making decisions that have a positive long-term impact on our people, planet, and bottom line. Our company-wide sustainability mission is to enable faster, smarter, and more sustainable solutions while demonstrating the utmost respect for our human and natural resources. Innovative technology, intelligent engineering, and energy efficient design help us accomplish our mission and achieve our goals.

Sustainability is a central part of the solutions and practices we create to serve the ever-increasing need for connectivity, and for us, sustainability starts at home with our own people and products. Through responsible business practices, partnerships and technology innovation, we are advancing our industry while creating a more sustainable future.

Indoor/Outdoor LSZH GRP Armored Central Loose Tube Cable for indoor or outdoor use with Rodent Protection



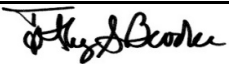
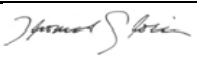
# Environmental Product Declaration

CommScope® Indoor/Outdoor LSZH GRP Armored Communication and Data Wires and Cables



According to  
ISO 14025, EN  
15804+A2

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<br>100 Barr Harbor Drive West Conshohocken, PA 19428   |
| GENERAL PROGRAM INSTRUCTIONS AND VERSION NUMBER  | General Program Instructions. Version 8.0. April 29, 2020.  |
| MANUFACTURER NAME AND ADDRESS  | CommScope, Inc.<br>3642 E US Highway 70, Claremont, North Carolina 28610  |
| DECLARATION NUMBER   | EPD683  |
| FUNCTIONAL UNIT OF DECLARED PRODUCT  | CommScope® Indoor/Outdoor LSZH GRP Armored Communication and Data Wires and Cables<br>Functional Unit = one optical fiber used to transmit communication signals on 1m at the wavelength of 1310 nm (for a single mode cable), for 20 years and at a rate of use of 100.0% in accordance with the standards in force for infrastructure telecom use |
| REFERENCE PCR AND VERSION NUMBER   | PEP ecopassport Program: Product Specific Rules for Wires, Cables and Accessories, v4.0, 2022.  |
| DESCRIPTION OF PRODUCT APPLICATION/USE   | CommScope cable products are primarily used in commercial and residential settings  |
| PRODUCT RSL DESCRIPTION  | 20 Years  |
| MARKETS OF APPLICABILITY   | Global  |
| DATE OF ISSUE  | May 17, 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   | 2022  |
| LCA SOFTWARE & VERSION NUMBER  | LCA for Experts v10.7   |
| LCI DATABASE(S) & VERSION NUMBER   | Sphera & 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.<br><input type="checkbox"/> INTERNAL <input checked="" type="checkbox"/> EXTERNAL | Timothy S Brooke<br>ASTM International  |
| 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.<br>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.

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## General Information

### Description of Company/Organization

CommScope (NASDAQ: COMM) helps design, build and manage wired and wireless networks around the world. Corporate responsibility and sustainability drive us to make decisions that benefit people, society, the planet and our bottom line. We enable faster, smarter and more sustainable solutions while respecting human and natural resources. Innovative technology, intelligent engineering and energy-efficient design help us meet our goals. CommScope builds sustainable networks that make our customers more agile, simultaneously helping to preserve the natural ecosystems from which we source components and materials.

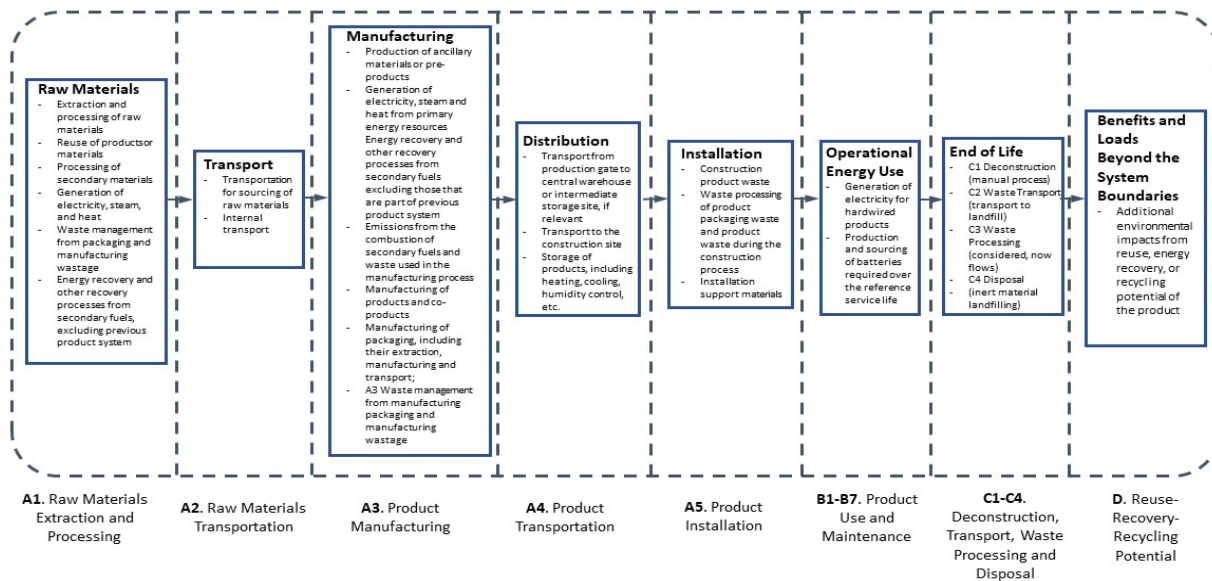
### Product Description

Product Name: Indoor/Outdoor LSZH GRP Armored Communication and Data Wires and Cables

Product Characteristics:

- Indoor/outdoor cables are tough enough for outdoor use while also being listed for indoor use
- Superior mechanical and optical performance with unmatched stability and quality
- Non Metallic GRP Armored
- Rodent protection

### Flow Diagram



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## Manufacturer Specific EPD

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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

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Indoor/Outdoor LSZH GRP Armored Communication and Data Wires and Cables for outdoor use while also being listed for indoor

## Material Composition

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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 CommScope Indoor/Outdoor LSZH GRP Armored Fiber Optic cable is as follows:

| Percentage in mass (%) |         |
|------------------------|---------|
| Material               | Maximum |
| Colorant               | 0.03%   |
| Conductor              | 2.86%   |
| Cross Filler           | 0.00%   |
| Yarn                   | 1.13%   |
| Rod                    | 42.72%  |
| Jacketing              | 46.49%  |
| Rip Cord               | 0.00%   |
| Tape                   | 1.13%   |
| Other                  | 5.64%   |
| Total                  | 100.00% |

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## 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                           |                                     |
|--|-------------------------------------|
| <b>General Specifications</b>            |                                     |
| Cable Type                               | Loose tube                          |
| Construction Type                        | Non-metallic rods - Armored         |
| Jacket Marking                           | Meters                              |
| Subunit Type                             | Gel-filled                          |
| <b>Mechanical Specifications</b>         |                                     |
| Compression Test Method                  | IEC 60794-1-2 E3                    |
| <b>Environmental Specifications</b>      |                                     |
| Installation Temperature                 | -5 °C to +50 °C (+23 °F to +122 °F) |
| Operating Temperature                    | -20 °C to +70 °C (-4 °F to +158 °F) |
| Storage Temperature                      | -20 °C to +70 °C (-4 °F to +158 °F) |
| Environmental Space                      | Low Smoke Zero Halogen (LSZH)       |
| <b>Environmental Test Specifications</b> |                                     |
| Temperature Cycle                        | -20 °C to +70 °C (-4 °F to +158 °F) |
| Temperature Cycle Test Method            | IEC 60794-1-2 F1                    |

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## Placing on the Market / Application Rules

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IEC 60794-1-2 E3; IEC 60794-1-2 F1

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## Properties of Declared Product as Shipped

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CommScope Indoor/Outdoor LSZH GRP Armored fiber optic cables are delivered as a complete unit, inclusive of all installation materials and instructions.

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## Methodological Framework

### Functional Unit

The declaration refers to the functional unit of one optical fiber used to transmit communication signals on 1m at the wavelength of 1310 nm (for a single mode cable), for 20 years and at a rate of use of 100.0% in accordance with the standards in force for infrastructure telecom use as specified in the PCR.

| Name                      | Value   | Unit |
|---------------------------|---|------|
| Functional unit           | one optical fiber used to transmit communication signals on 1m at the wavelength of 1310 nm (for a single mode cable), for 20 years and at a rate of use of 100.0% in accordance with the standards in force for infrastructure telecom use |      |
| Maximum Mass              | 3.2E-03   | kg   |
| Conversion factor to 1 kg | 314.77  | -    |

### 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 CommScopeIndoor/Outdoor LSZH GRP Armored Fiber Optic cable is 20 years.

### Allocation

Allocation was determined on a per meter basis.

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## 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.

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## Data Sources

Primary data were collected for every process in the product system under the control of CommScope. 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

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## 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.

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## Period Under Review

The period under review is the full calendar year of 2022.

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## Treatment of Biogenic Carbon

The uptake and release of biogenic carbon throughout the product life cycle follows EN15804+A2 Section 6.4.4.

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## 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.

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## Units

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



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## Additional Environmental Information

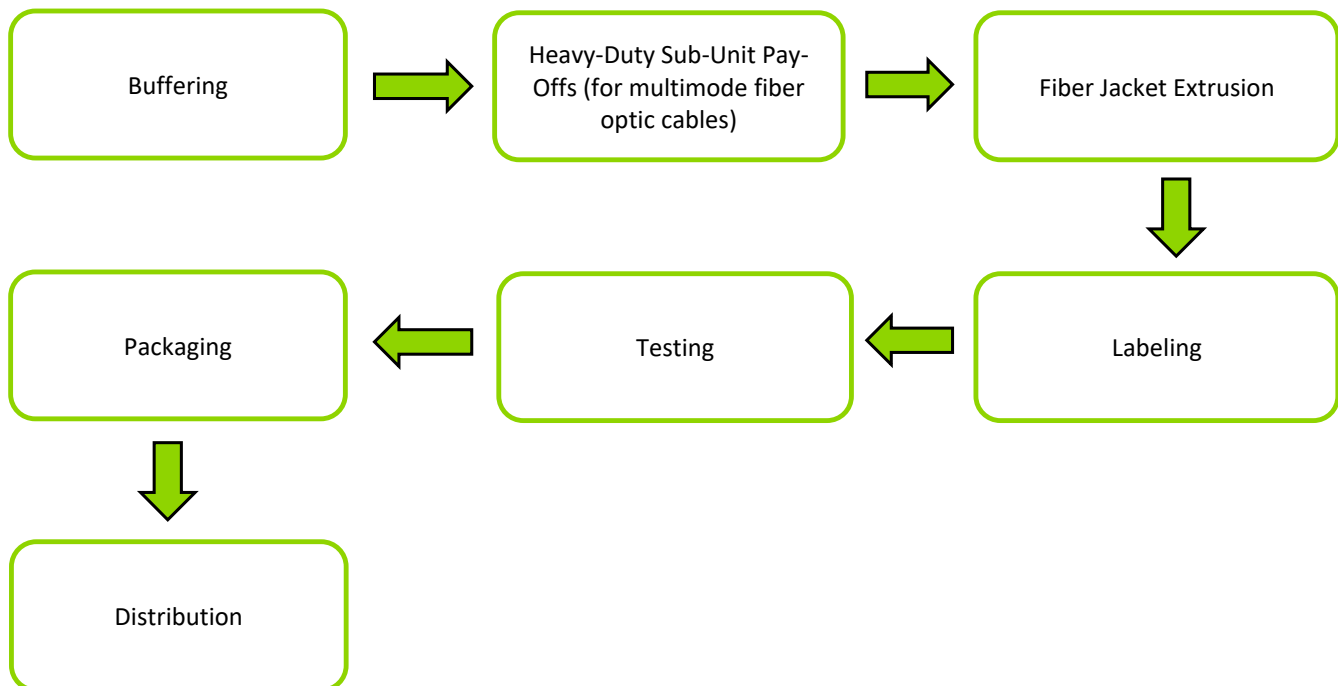
### Background data

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

Bray, Ireland; North Wales; and the Claremont, North Carolina plants produce fiber optic cables for CommScope. The manufacturing process begins with fiber raw materials such as glass and plastics (low smoke zero halogen and ethyl vinyl acetate) into the tight buffer extrusion line where the fibers are buffered. After buffering, the tight buffered fiberglass from single mode fiber optic cables is sent to the fiber jacket extrusion line where the fibers are stranded together and wrapped with aramid and an outer jacket. A similar process is true for the multimode fiber optic cables, except, before being sent to the fiber jacket extrusion line, the tight buffered fiberglass is sent to the heavy-duty sub-unit pay-offs process where pay-off systems are used to unwind wire rods to supply wire continuously. Alternatively, if aramid/Kevlar and GRP rods are used as raw material inputs, they are sent directly to the fiber jacket extrusion line.

Once the fibers have undergone the extrusion processes, the fibers are then sent to be labeled via the printing process using printing ink and solvent. Following the printing process, the cables are tested in a laboratory before being sent to be packaged using wooden reels, pallets, and plastic covers. Once packaged, the fiber optic cables are shipped to the appropriate consumers.



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## Packaging

All packaging is fully recyclable. The packaging material is composed primarily of wood, with plastic and strapping materials used for individual product packaging.

| Quantity (% By Weight) |         |
|------------------------|---------|
| Material               | Maximum |
| Paper                  | 9.83%   |
| Metal                  | 8.34%   |
| Plastic                | 8.60%   |
| Wood                   | 73.22%  |
| Total                  | 100.00% |

## Transformation

| Truck Transport to Building Site (A4)       |        |         |
|---|--------|---------|
| Name  | Max    | Unit    |
| Fuel type                                   | Diesel |         |
| Liters of fuel                              | 38     | l/100km |
| Transport distance                          | 3500   | km      |
| Capacity utilization (including empty runs) | 85     | %       |
| Weight of products transported              | -      | kg      |

## Product Installation

CommScope Indoor/Outdoor LSZH GRP Armored fiber optic cables are distributed through and installed by trained installation technicians adhering to local/national standards and requirements. Installation accounts for the energy consumption, material wastage, and support materials use during the installation process, as well as waste treatment of packaging materials. The installation scrap was assumed to be a 5% average in accordance with the PCR. Installation is typically completed using battery-powered equipment and can therefore be neglected due to the amount of electricity that is consumed during the use phase.

| Installation into the building (A5)               |          |                    |
|---|----------|--------------------|
| Name  | Max      | Unit               |
| Auxiliary materials                               | -        | kg                 |
| Water consumption                                 | -        | m <sup>3</sup>     |
| Other resources                                   | -        | kg                 |
| Electricity consumption                           | -        | kWh                |
| Other energy carriers                             | -        | MJ                 |
| Product loss per functional unit                  | 1.64E-04 | kg                 |
| Waste materials at construction site              | 1.64E-04 | kg                 |
| Output substance (recycle)                        | 0.00E+00 | kg                 |
| Output substance (landfill)                       | 7.94E-05 | kg                 |
| Output substance (incineration)                   | 7.94E-05 | kg                 |
| Packaging waste (recycle)                         | 3.51E-07 | kg                 |
| Packaging waste (landfill)                        | 2.24E-06 | kg                 |
| Packaging waste (incineration)                    | 2.15E-06 | kg                 |
| Direct emissions to ambient air*, soil, and water | 1.92E-06 | kg CO <sub>2</sub> |
| VOC emissions                                     | -        | kg                 |

\*CO<sub>2</sub> emissions to air from disposal of packaging

| Reference Service Life   |       |       |
|--|-------|-------|
| Name   | Value | Unit  |
| Reference Service Life   | 20    | years |
| Declared product properties (at the gate) and finishes, etc.   | -     | -     |
| Design application parameters (if instructed by the manufacturer), including the references to the appropriate practices and application codes | -     | -     |
| An assumed quantity of work, when installed in accordance with the manufacturer's instruction  | -     | -     |
| Outdoor environment, (for outdoor applications), e.g. weathering, pollutants, UV and wind exposure, building orientation, shading, temperature | -     | -     |
| Indoor environment, (for indoor applications), e.g. temperature, moisture, chemical exposure   | -     | -     |
| Usage conditions, e.g. frequency of use, mechanical exposure   | -     | -     |
| Maintenance e.g. required frequency, type and quality and replacement of components  | -     | -     |

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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. This is a single mode cable operating under the 10GBASE-LR protocol.

| Operational Energy Use (B6)                  |          |                |
|--|----------|----------------|
| Name   | Max      | Unit           |
| Water consumption (from tap, to sewer)       | -        | m <sup>3</sup> |
| Electricity consumption                      | 1.89E-04 | kWh            |
| Other energy carriers                        | -        | kWh            |
| Power output of equipment                    | -        | kW             |
| Characteristic performance                   | -        | -              |
| Further assumptions for scenario development | -        | -              |

| Maximum Loss Values per Cable Type |             |                   |
|------------------------------------|-------------|-------------------|
| Cable Type                         | Protocol    | Power Loss (μW/m) |
| Single Mode                        | 100BASE-LX  | 0.09              |
|                                    | 1000BASE-LX |                   |
|                                    | 10GBASE-LR  |                   |

## Disposal

The product can be mechanically disassembled to separate the different materials. The majority of components are disposed of through waste incineration with energy recovery or landfilled, in accordance with the PCR.

| End of life (C1-C4)                   |          |      |
|---------------------------------------|----------|------|
| Name                                  | Max      | Unit |
| Collected separately                  | 0.00E+00 | kg   |
| Collected as mixed construction waste | 3.18E-03 | kg   |
| Reuse                                 | 0.00E+00 | kg   |
| Recycling                             | 0.00E+00 | kg   |
| Landfilling                           | 1.59E-03 | kg   |
| Incineration with energy recovery     | 1.59E-03 | kg   |
| Energy conversion                     | 25.00    | %    |
| Removals of biogenic carbon           | -        | kg   |

## Re-use Phase

Re-use of the product is not common.

| 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  | 0.03 | MJ   |
| Process and conversion efficiencies   | -    |      |
| Further assumptions for scenario development (e.g. further processing technologies, assumptions on correction factors); | -    |      |

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## LCA Results - Maximum Impact

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 <sub>2</sub> -Eq. | 6.08E-03 | 1.12E-03 | 3.84E-04 | 5.16E-04 | 3.20E-04 | 2.74E-03 | 6.88E-05 | -1.45E-03 | 1.12E-02 |
| ODP                         | Depletion potential of the stratospheric ozone layer | kg CFC-11 Eq.           | 2.46E-14 | 2.11E-18 | 1.23E-15 | 2.01E-16 | 8.82E-19 | 6.23E-18 | 2.69E-18 | -5.65E-16 | 2.60E-14 |
| AP Air                      | Acidification potential for air emissions            | kg SO <sub>2</sub> -Eq. | 1.44E-05 | 6.57E-06 | 1.17E-06 | 1.15E-06 | 2.17E-06 | 3.37E-07 | 2.19E-07 | -3.24E-06 | 2.60E-05 |
| EP                          | Eutrophication potential                             | kg N-Eq.                | 8.87E-07 | 5.07E-07 | 7.92E-08 | 1.17E-07 | 1.63E-07 | 2.59E-08 | 7.78E-08 | -3.30E-07 | 1.86E-06 |
| SP                          | Smog formation potential                             | kg O <sub>3</sub> -Eq.  | 2.27E-04 | 1.47E-04 | 2.15E-05 | 1.49E-05 | 4.92E-05 | 6.88E-06 | 3.85E-06 | -4.19E-05 | 4.70E-04 |
| FFD                         | Fossil Fuel Depletion                                | MJ-surplus              | 2.20E-02 | 2.24E-03 | 1.26E-03 | 5.11E-04 | 6.29E-04 | 8.47E-05 | 1.33E-04 | -1.44E-03 | 2.69E-02 |

\*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 <sub>2</sub> -Eq.                | 6.17E-03 | 1.13E-03  | 3.92E-04  | 5.18E-04 | 3.16E-04  | 2.74E-03 | 6.84E-05 | -1.46E-03 | 1.13E-02  |
| ODP                       | Depletion potential of the stratospheric ozone layer             | kg CFC-11 Eq.                          | 3.71E-14 | 1.19E-16  | 1.89E-15  | 1.12E-14 | 4.94E-17  | 3.48E-16 | 1.50E-16 | -3.15E-14 | 5.09E-14  |
| AP Air                    | Acidification potential for air emissions                        | kg SO <sub>2</sub> -Eq.                | 1.31E-05 | 4.81E-06  | 9.86E-07  | 1.08E-06 | 1.59E-06  | 2.69E-07 | 2.08E-07 | -3.05E-06 | 2.21E-05  |
| EP                        | Eutrophication potential   | kg(PO <sub>4</sub> ) <sup>3</sup> -Eq. | 1.83E-06 | 1.24E-06  | 1.76E-07  | 1.26E-07 | 4.07E-07  | 5.84E-08 | 1.72E-07 | -3.54E-07 | 4.01E-06  |
| POCP                      | Formation potential of tropospheric ozone photochemical oxidants | kg ethane-Eq.                          | 2.29E-06 | -2.06E-06 | -1.69E-08 | 7.64E-08 | -6.19E-07 | 2.44E-08 | 1.77E-08 | -2.15E-07 | -2.92E-07 |
| ADPE                      | Abiotic depletion potential for non-fossil resources             | kg Sb-Eq.                              | 4.77E-08 | 8.82E-11  | 2.40E-09  | 1.11E-10 | 2.53E-11  | 4.94E-11 | 1.16E-11 | -3.12E-10 | 5.04E-08  |
| ADPF                      | Abiotic depletion potential for fossil resources                 | MJ                                     | 1.62E-01 | 1.56E-02  | 9.17E-03  | 5.99E-03 | 4.39E-03  | 6.81E-04 | 1.00E-03 | -1.68E-02 | 1.99E-01  |

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

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15804+A2

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 <sub>2</sub> -Eq.           | 6.43E-03  | 1.15E-03 | 4.08E-04 | 5.27E-04 | 3.24E-04  | 2.74E-03 | 7.15E-05 | -1.48E-03 | 1.17E-02 |
| GWP-fossil           | Climate change - fossil                              | kg CO <sub>2</sub> -Eq.           | 6.39E-03  | 1.14E-03 | 3.99E-04 | 5.22E-04 | 3.25E-04  | 2.74E-03 | 7.22E-05 | -1.47E-03 | 1.16E-02 |
| GWP-biogenic         | Climate change - biogenic                            | kg CO <sub>2</sub> -Eq.           | -3.45E-05 | 4.33E-06 | 3.45E-05 | 5.65E-06 | -4.53E-06 | 1.66E-07 | 0.00E+00 | 0.00E+00  | 5.62E-06 |
| GWP-luluc            | Climate change - land use and land use change        | kg CO <sub>2</sub> -Eq.           | 5.76E-07  | 1.06E-05 | 7.29E-07 | 5.60E-08 | 2.99E-06  | 5.83E-08 | 8.26E-08 | -1.58E-07 | 1.51E-05 |
| ODP                  | Ozone depletion                                      | kg CFC-11 Eq.                     | 2.71E-14  | 1.01E-16 | 1.38E-15 | 9.51E-15 | 4.20E-17  | 2.95E-16 | 1.28E-16 | -2.67E-14 | 3.85E-14 |
| AP                   | Acidification  | mol H <sup>+</sup> Eq.            | 1.40E-05  | 7.08E-06 | 1.19E-06 | 1.10E-06 | 2.34E-06  | 4.10E-07 | 2.56E-07 | -3.09E-06 | 2.64E-05 |
| EP-freshwater        | Eutrophication aquatic freshwater                    | kg P-Eq.                          | 2.03E-08  | 4.19E-09 | 1.33E-09 | 1.92E-09 | 1.18E-09  | 2.53E-10 | 1.15E-08 | -5.40E-09 | 4.07E-08 |
| EP-marine            | Eutrophication aquatic marine                        | kg N Eq.                          | 3.65E-06  | 3.47E-06 | 4.17E-07 | 2.63E-07 | 1.15E-06  | 1.15E-07 | 6.08E-08 | -7.43E-07 | 9.14E-06 |
| EP-terrestrial       | Eutrophication terrestrial                           | mol N Eq.                         | 4.04E-05  | 3.85E-05 | 4.61E-06 | 2.75E-06 | 1.28E-05  | 1.90E-06 | 6.69E-07 | -7.71E-06 | 1.02E-04 |
| POCP                 | Photochemical ozone formation                        | NMVOE Eq.                         | 1.41E-05  | 6.56E-06 | 1.16E-06 | 7.01E-07 | 2.22E-06  | 3.22E-07 | 1.90E-07 | -1.97E-06 | 2.53E-05 |
| ADP-minerals&metals* | Depletion of abiotic resources - minerals and metals | kg Sb Eq.                         | 9.10E-10  | 7.43E-11 | 5.07E-11 | 7.99E-11 | 2.13E-11  | 3.19E-12 | 2.08E-12 | -2.24E-10 | 1.14E-09 |
| ADP-fossil**         | Depletion of abiotic resources - fossil fuels        | mol N Eq.                         | 1.67E-01  | 1.56E-02 | 9.44E-03 | 1.08E-02 | 4.40E-03  | 7.92E-04 | 1.03E-03 | -3.05E-02 | 2.09E-01 |
| WDP**                | Water use  | m <sup>3</sup> world Eq. deprived | 1.35E-03  | 1.33E-05 | 7.85E-05 | 1.15E-04 | 3.90E-06  | 3.34E-04 | 3.58E-07 | -3.23E-04 | 1.90E-03 |
| PM                   | Particulate matter emissions                         | Disease incidence                 | 1.13E-10  | 4.45E-11 | 8.96E-12 | 9.24E-12 | 8.47E-12  | 4.73E-12 | 2.68E-12 | -2.60E-11 | 1.91E-10 |
| IRP                  | Ionizing radiation, human health                     | kBq U235 Eq.                      | 3.01E-04  | 2.92E-06 | 1.56E-05 | 2.87E-04 | 1.23E-06  | 6.12E-06 | 1.74E-06 | -8.06E-04 | 6.16E-04 |
| ETP-fw               | Ecotoxicity (freshwater)                             | CTUe                              | 7.68E-02  | 1.09E-02 | 4.60E-03 | 4.78E-03 | 3.13E-03  | 4.67E-04 | 9.24E-04 | -1.35E-02 | 1.02E-01 |
| HTP-c                | Human toxicity, cancer effects                       | CTUh                              | 2.57E-12  | 2.23E-13 | 1.46E-13 | 1.60E-13 | 6.40E-14  | 2.92E-14 | 5.10E-14 | -4.49E-13 | 3.24E-12 |
| HTP-nc               | Human toxicity, non-cancer effects                   | CTUh                              | 2.08E-10  | 1.40E-11 | 1.15E-11 | 3.92E-12 | 3.68E-12  | 1.40E-12 | 4.58E-12 | -1.10E-11 | 2.47E-10 |
| SQP                  | Land use related impacts/Soil quality                | dimensionless                     | 6.24E-03  | 6.53E-03 | 7.57E-04 | 4.26E-03 | 1.83E-03  | 2.49E-04 | 1.12E-04 | -1.19E-02 | 2.00E-02 |

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

\*\*The results of this environmental impact indicator shall be used with care as the uncertainties on these results are high or as there is limited experienced with the indicator.

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 <sub>E</sub>  | Renewable primary energy as energy carrier                 | MJ             | 8.78E-03 | 1.10E-03 | 5.26E-04 | 6.48E-03 | 3.20E-04 | 1.90E-04 | 1.03E-04 | -1.82E-02 | 1.75E-02 |
| RPR <sub>M</sub>  | Renewable primary energy resources as material utilization | MJ             | 3.85E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 3.85E-06 |
| NRPR <sub>E</sub> | Nonrenewable primary energy as energy carrier              | MJ             | 1.71E-01 | 1.57E-02 | 9.58E-03 | 1.08E-02 | 4.41E-03 | 7.92E-04 | 1.03E-03 | -3.05E-02 | 2.13E-01 |
| NRPR <sub>M</sub> | Nonrenewable primary energy as material utilization        | MJ             | 1.29E-01 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 1.29E-01 |
| 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 | 1.62E-02  | 0.00E+00 |
| FW                | Use of net fresh water                                     | m <sup>3</sup> | 4.14E-05 | 1.22E-06 | 2.38E-06 | 5.24E-06 | 3.51E-07 | 7.85E-06 | 4.54E-08 | -1.47E-05 | 5.85E-05 |

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

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CommScope® Indoor/Outdoor LSZH GRP Armored Communication and Data Wires and Cables



According to  
ISO 14025, EN  
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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   | 2.27E-08 | 5.81E-14 | 1.13E-09 | -8.47E-13 | 1.37E-14 | 1.23E-14 | 7.78E-14 | 2.39E-12  | 2.38E-08 |
| NHWD                              | Non-hazardous waste disposed                  | kg   | 5.33E-04 | 2.26E-06 | 1.44E-04 | 7.92E-06  | 6.72E-07 | 3.38E-04 | 1.59E-03 | -2.24E-05 | 2.62E-03 |
| HLRW                              | High-level radioactive waste                  | kg   | 3.00E-06 | 2.03E-08 | 1.53E-07 | 1.72E-06  | 8.26E-09 | 3.89E-08 | 1.22E-08 | -4.85E-06 | 4.95E-06 |
| 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   | 4.25E-07 | 0.00E+00 | 3.51E-07 | 0.00E+00  | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00  | 7.75E-07 |
| 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 | 1.59E-03  | 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 | 1.62E-02  | 0.00E+00 |

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

Results below contain direct greenhouse gas emissions and removals throughout the life cycle of the product.

| Resource Use |  |                    |          |          |          |          |          |          |          |          |          |
|--------------|--|--------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Parameter    | Parameter  | Unit               | A1-A3    | A4       | A5       | B6       | C2       | C3       | C4       | D        | Total    |
| BCRP         | Biogenic Carbon Removal from Product   | kg CO <sub>2</sub> | 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 |
| BCEP         | Biogenic Carbon Emissions from Product   | kg CO <sub>2</sub> | 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 |
| BCRK         | Biogenic Carbon Removal from Packaging   | kg CO <sub>2</sub> | 1.92E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.92E-06 |
| BCEK         | Biogenic Carbon Emissions from Packaging   | kg CO <sub>2</sub> | 0.00E+00 | 0.00E+00 | 1.92E-06 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 0.00E+00 | 1.92E-06 |
| BCEW         | Biogenic Carbon Emissions from Combustion of Waste from Renewable Sources Used in Production Process | kg CO <sub>2</sub> | 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 |
| CCE          | Calcination Carbon Emissions   | kg CO <sub>2</sub> | 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 |
| CCR          | Carbonation Carbon Removal   | kg CO <sub>2</sub> | 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 |
| CWNR         | Carbon Emissions from Combustion of Waste from Non-renewable Sources Used in Production Process      | kg CO <sub>2</sub> | 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 |

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

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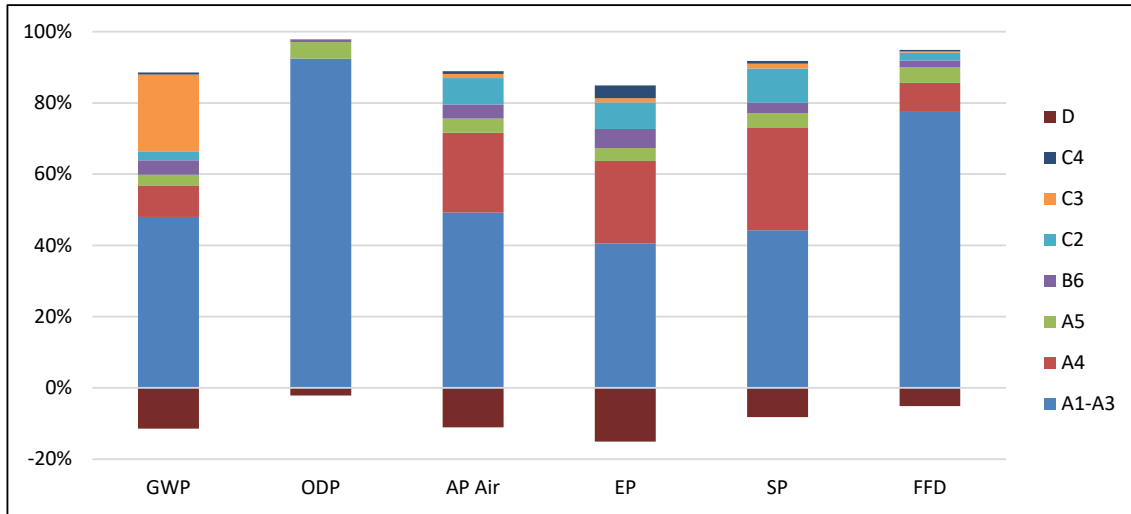
CommScope® Indoor/Outdoor LSZH GRP Armored Communication and Data Wires and Cables



According to  
ISO 14025, EN  
15804+A2

## LCA Interpretation - Maximum Impact

The production life cycle stage (A1-A3) dominate the impacts across all impact categories. This is due to the upstream production of raw materials used in the product, along with electricity use in the manufacturing of the product. The reuse, recovery, and recycling potential (D) stage is 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.



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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.

| Cable Product Name             | A1 - A3 |        |        |        |        |         |           | A4     | A5     | B6     | C2 - D |
|--------------------------------|---------|--------|--------|--------|--------|---------|-----------|--------|--------|--------|--------|
|                                | GWP     | ODP    | AP     | EP     | PCOP   | FFD/ADP | Resources |        |        |        |        |
| C-012-CA-8W-M12YL/28G/GRP/D    | 46.70   | 21.49  | 48.47  | 51.35  | 47.59  | 45.42   | 45.59     | 46.94  | 46.94  | 12.00  | 46.94  |
| C-012-CA-5K-M12AQ/28G/GRP/E    | 46.99   | 21.49  | 48.68  | 51.64  | 47.83  | 45.74   | 46.09     | 47.28  | 47.28  | 12.00  | 47.28  |
| C-012-CA-5L-M12AQ/28G/GRP/D    | 46.99   | 21.49  | 48.68  | 51.64  | 47.83  | 45.74   | 46.09     | 47.28  | 47.28  | 12.00  | 47.28  |
| C-024-LA-8W-M12YL/28G/GRP/E    | 90.09   | 44.24  | 92.66  | 93.62  | 91.63  | 88.79   | 87.91     | 91.30  | 91.30  | 24.00  | 91.30  |
| C-048-LA-8W-M12YL/28G/GRP/E    | 98.63   | 64.41  | 98.41  | 100.89 | 98.81  | 97.88   | 95.88     | 97.88  | 97.88  | 48.00  | 97.88  |
| C-072-LA-8W-M12YL/25G/GRP      | 99.64   | 80.32  | 100.34 | 102.00 | 100.23 | 99.02   | 99.07     | 99.49  | 99.49  | 72.00  | 99.49  |
| C-096-LA-8W-M12BK/25G/GRP/AJ/E | 130.97  | 106.18 | 132.29 | 132.08 | 132.50 | 131.14  | 131.84    | 131.93 | 131.93 | 96.00  | 131.93 |
| C-144-LA-8W-M12YL/25G/GRP/D    | 144.00  | 144.00 | 144.00 | 144.00 | 144.00 | 144.00  | 144.00    | 144.00 | 144.00 | 144.00 | 144.00 |



# Environmental Product Declaration

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## Additional Environmental Information

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### Environmental and Health During Manufacturing

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CommScope values employees' health, safety and well-being. To this end, we maintain a robust company-wide environment, health and safety (EHS) management system. This is an integrated program based on the requirements of the International Standards of ISO45001 and ISO14001. To support this integrated EHS management system, CommScope utilizes a web-based platform, the BSI Entropy™ tool. This tool supports the management of our EHS processes and operations at the corporate and facility level. All EHS management system records (policies, procedures, method statements, health and safety risk assessments, environmental aspect/impact assessments, legal requirements, permits, training, internal and external audits, incidents and implemented CAPA, KPIs, and other records related to EHS) are maintained and managed in Entropy. In addition, all CommScope major manufacturing facilities are certified according to the ISO14001 and ISO45001 standards. Our vision and commitments are detailed in our EHS Policy:

<https://www.commscope.com/globalassets/digizuite/912592-912598-ehs-policy-2021-english.pdf>

CommScope understands the need to address the environmental impacts of its products and services. CommScope engages product development teams in designing innovative and more sustainable solutions across a product's life cycle—from design and manufacturing to product use and end of life.

CommScope is committed to demonstrating a high standard of global product compliance practices. Through this commitment, we actively monitor global environmental trends and emerging regulatory requirements that may affect our products, operations, supply chain, and customer base. We are committed to be compliant with all applicable environmental product-related legal and other requirements. To achieve this, we have a global organization comprising environmental specialists, engineers, and product compliance experts who are constantly ensuring our compliance status is maintained. We manage our compliance using a cross-functional approach with our engineers, designers, quality organization, supply chain organization, and production.

CommScope is committed to upholding the human rights of its employees. To ensure our employees are treated with dignity and respect, we follow a well-established Code of Ethics and Business Conduct and Labor Policy that aligns with recognized standards and guidelines from the International Labor Organization, the United Nations Global Compact, the UN Universal Declaration of Human Rights, SA8000 and applicable laws.

# Environmental Product Declaration

CommScope® Indoor/Outdoor LSZH GRP Armored Communication and Data Wires and Cables



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## Environmental and Health During Installation

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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

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### Fire

No extraordinary effects to the environment can be anticipated during exposure to fire.

### Water

Contains no substances that have any impact on water in case of flood.

### Mechanical Destruction

No danger to the environment can be anticipated during mechanical destruction.

## Delayed Emissions

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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

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Our Sustainability Report details CommScope's efforts to operate the business ethically and with integrity; protect the environment; maintain the health, safety and well-being of our workforce; and support the communities in which we operate. To learn more, view our comprehensive Sustainability Report at

<https://www.commscope.com/corporate-responsibility-and-sustainability/>.

CommScope 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.commscope.com/corporate-responsibility-and-sustainability/philosophy/#certifications>

## Further Information

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3642 E US Highway 70, Claremont, North Carolina 28610

# Environmental Product Declaration

CommScope® Indoor/Outdoor LSZH GRP Armored Communication  
and Data Wires and Cables



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## References

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# Environmental Product Declaration

CommScope® Indoor/Outdoor LSZH GRP Armored Communication  
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## Contact Information

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### Study Commissioner

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[For more information, visit our website at  
https://www.commscope.com/](https://www.commscope.com/)  
[-Contact customer support for product and technical  
questions at https://www.commscope.com/contact-us/](https://www.commscope.com/contact-us/)  
[-Contact product compliance at  
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### LCA Practitioner

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