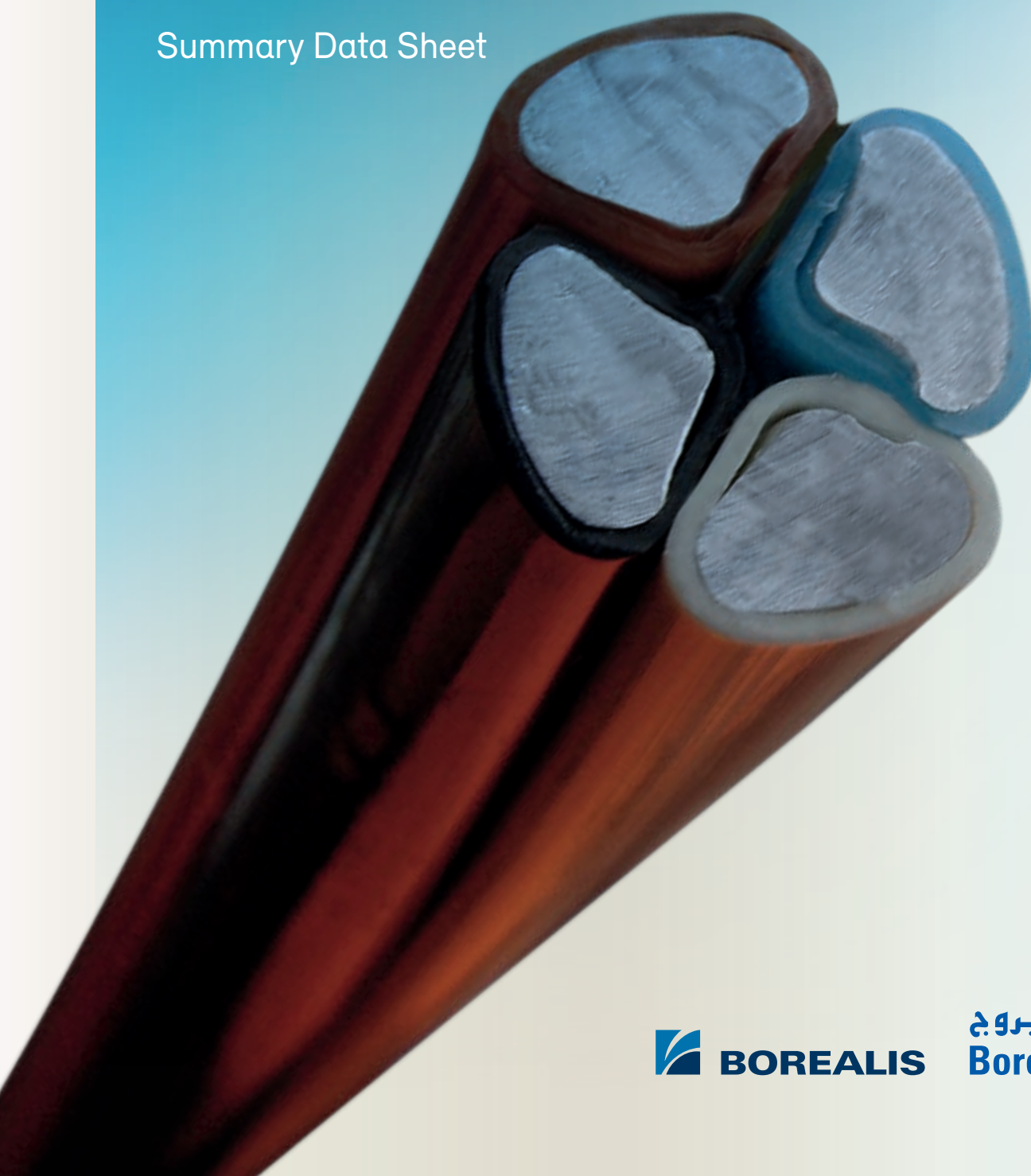


---

# Solutions for Wire & Cable Low Voltage energy cables

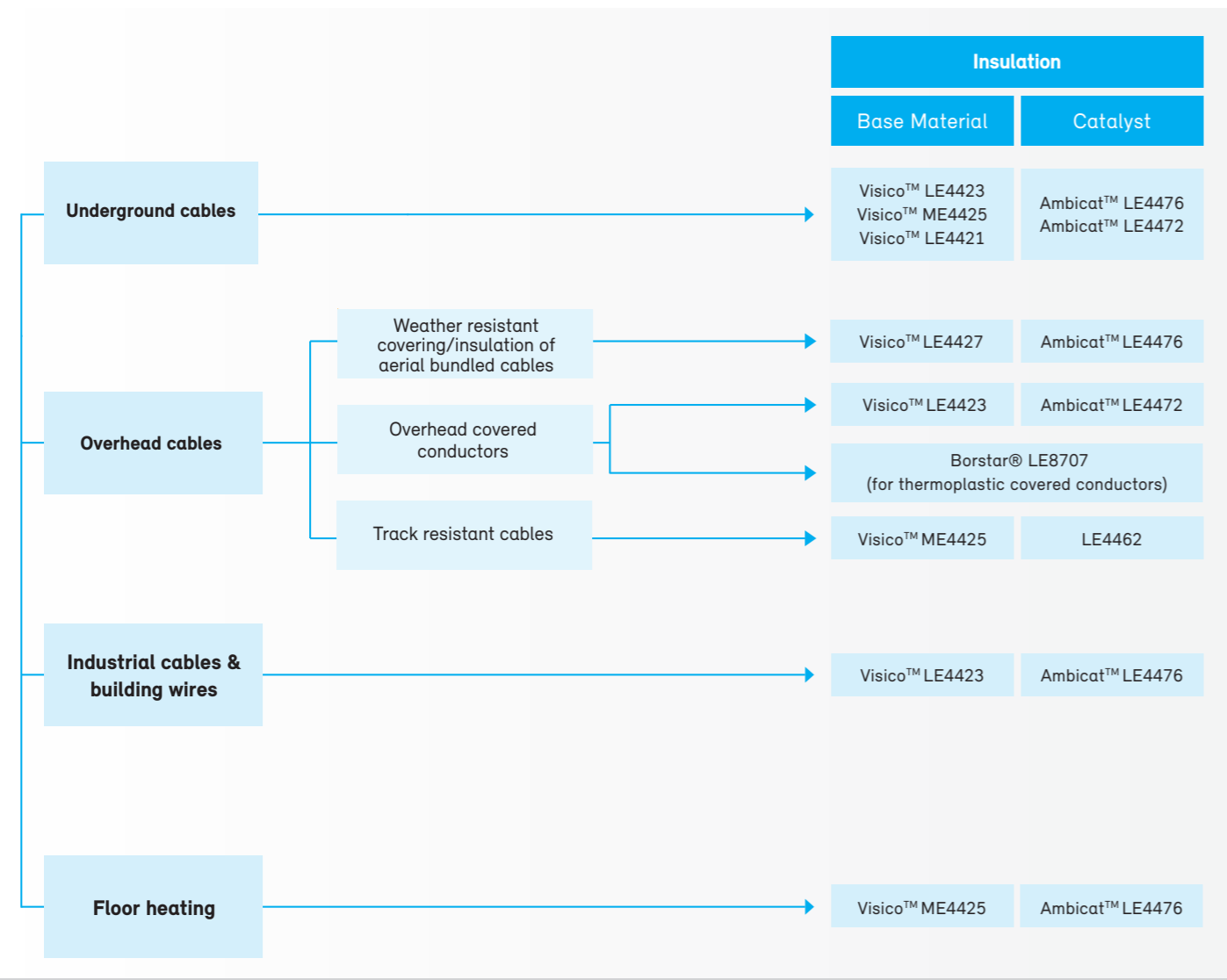
---

Summary Data Sheet





## Recommended solutions for low voltage energy cables



## Compounds for low voltage energy cables

Insulation base material	
Visico™ LE4423	Natural silane crosslinkable low density vinyl silane copolymer
Visico™ ME4425	Natural silane crosslinkable medium density vinyl silane copolymer
Visico™ LE4421	Natural silane crosslinkable low density vinyl silane copolymer
Visico™ LE4427	Black silane crosslinkable low density vinyl silane copolymer
Catalyst masterbatches	
Ambicat™ LE4476	Natural catalyst masterbatch for ambient curing together with Visico™ base material
Ambicat™ LE4472	Black catalyst masterbatch for ambient curing together with Visico™ base material
LE4462	Black catalyst masterbatch for overhead track resistant cables
LE4437	Natural catalyst masterbatch for low voltage cables resisting copper discoloration
LE4438	Natural catalyst masterbatch for low voltage cables
LE4432	Black catalyst masterbatch for low voltage cables
Jacketing compounds	
Borstar® HE6062	Black high density bimodal polyethylene jacketing compound
Borstar® HE6063	Natural high density bimodal polyethylene jacketing compound
Borstar® LE8707	Black linear low density bimodal polyethylene jacketing compound
Borstar® LE8706	Natural linear low density bimodal polyethylene jacketing compound
Casico™ FR6082	Black low fire hazard halogen free flame retardant jacketing compound
Casico™ FR6083	Natural low fire hazard halogen free flame retardant jacketing compound
FR4810	Black low fire hazard halogen free flame retardant jacketing compound with higher flame retardancy

The above selector is intended as a general tool to assist in material selection: contact your local technical service engineer for detailed assistance. The above diagram remains the absolute property of Borealis AG. Unauthorised reproduction or transmission, in any form or by any means, of this summary datasheet is prohibited.

# Solutions for Wire & Cable

## Low Voltage energy cables

Borealis insulation solutions help to reduce production complexity while at the same time driving cost efficiency. We offer a range of innovative solutions for major types of LV cables for both overhead and underground applications. Our proprietary Visico™/Ambicat™ solutions are leading and cost-effective products when it comes to providing, installing and extending the lifetime of cable systems and raising the potential for uninterrupted power supply.

### Visico/Ambicat for high quality and cost effective LV cables

Our high-productivity insulation solutions are based on our proprietary Visico/Ambicat ambient cure, silane crosslinked polyethylene (XLPE) technology. Tangible benefits to our customers include:

- Increased production efficiency of high-quality, moisture cure LV cables thanks to reduced production complexity and less scrap produced
- Higher production output of cable using existing equipment
- Faster production cycles requiring less manpower
- Production campaigns of up to several weeks due to unique scorch retardant solution
- Crosslinking under ambient conditions without the need for elevated temperatures (elimination of water bath or sauna saves energy)
- Low environmental impact: catalyst system has no tin and contains neither flammable liquids nor harmful additives

Visico/Ambicat solutions are available globally and come with comprehensive technical support.

### XLPE from cable waste can be recycled

Borealis and Borouge are the world's leading providers for innovative, value-creating plastics solutions for the wire and cable industry. Our philosophy is to provide innovative materials that allow for the problem free operation of cables over very long time spans. Long life, without the need to frequently scrap and replace cables, is an effective way to limit the environmental burden. Even so, we understand our responsibility to deal with issues related to cable waste, and have been, for many years, active in research with industry partners to further develop the recycling technology.

There are two ways to recycle XLPE/polyolefin cable waste. One is to recover energy from XLPE/polyolefin waste for heating or power generation. The other one is to reprocess XLPE/polyolefin cable waste by mixing with virgin polyolefin materials. Multiple applications have been demonstrated through industrial scale. Cable waste recycling contributes positively to CO<sub>2</sub> emission reduction.

This application summary datasheet describes the principal uses of Borealis' and Borouge's standard products for low voltage underground, overhead and industrial applications. For more detailed information, please contact your Borealis & Borouge representatives.

Bringing energy all around | Date of issue: March 2019

**About Borealis** Borealis is a leading provider of innovative solutions in the fields of polyolefins, base chemicals and fertilizers. With its head office in Vienna, Austria, the company currently has around 6,800 employees and operates in over 120 countries. Borealis generated EUR 8.3 billion in sales revenue and a net profit of EUR 906 million in 2018. Mubadala, through its holding company, owns 64% of the company, with the remaining 36% belonging to Austria-based OMV, an integrated, international oil and gas company. Borealis provides services and products to customers around the world in collaboration with Borouge, a joint venture with the Abu Dhabi National Oil Company (ADNOC).

Borealis and Borouge aim to proactively benefit society by taking on real societal challenges and offering real solutions. Both companies are committed to the principles of Responsible Care®, an initiative to improve safety performance within the chemical industry, and work to solve the world's water and sanitation challenges through product innovation and their Water for the World programme.

**For more information visit:** [www.borealisgroup.com](http://www.borealisgroup.com) · [www.borouge.com](http://www.borouge.com) · [www.waterfortheworld.net](http://www.waterfortheworld.net)

**Disclaimer** The information contained herein is to our knowledge accurate and reliable as of the date of publication. Borealis and Borouge extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the consequences of its use or for any errors. It is the customer's responsibility to inspect and test our products in order to satisfy himself as to the suitability of the products for the customer's particular purpose. The customer is also responsible for the appropriate, safe and legal use, processing and handling of our products. Nothing herein shall constitute any warranty (express or implied, of merchantability, fitness for a particular purpose, compliance with performance indicators, conformity to samples or models, non-infringement or otherwise), nor is protection from any law or patent to be inferred. Insofar as products supplied by Borealis and Borouge are used in conjunction with third-party materials, it is the responsibility of the customer to obtain all necessary information relating to the third-party materials and ensure that Borealis and Borouge products, when used together with these materials, are suitable for the customer's particular purpose. No liability can be accepted in respect of the use of Borealis and Borouge products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third-party materials.

Borstar is a registered trademark of the Borealis Group. Ambicat, Visico and Cascio are trademarks of the Borealis Group.

### For more information:

visit [www.borealisgroup.com](http://www.borealisgroup.com) and [www.borouge.com](http://www.borouge.com)

**Borealis AG** · IZD Tower

Wagramer Strasse 17–19 · A-1220 Vienna · Austria

Tel +43 1 22 400 000 · Fax +43 1 22 400 333

**Borouge Pte Ltd** · Sales and Marketing Head Office

1 George Street 18–01 · Singapore 049145

