INDUSTRI



DATA CENTER

HIGH QUALITY PRODUCTS FOR CABLE INSTALLATION

amokabel
CABLE FOR LIFE



Introduction

Amokabel is a privately owned Swedish company operating in several countries, specializing in cables and covered overhead conductors. Since its founding in 1992, the company has experienced strong organic growth, and today its products are used in many parts of the world.

The group consists of three production units, with its factory and headquarters located in Alstermo, Småland. By focusing on flexibility, innovation, quality, and short delivery times, we have successfully met market demands.

Amokabel also works continuously to reduce environmental impact and made an early decision to invest in its own green electricity production. Today, the group owns a number of hydro and wind power plants, as well as large solar installations. As a result of this investment, the group is fully self-sufficient in green energy.

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SUSTAINABLE DEVELOPMENT

Amokabel is fully self-sufficient in energy, produced from 100% renewable sources.
In addition, we are certified in accordance with ISO 14001.

HIGH QUALITY

High quality is a guiding principle for Amokabel, directing us in all processes from production to sales. We are also certified in accordance with ISO 9001.

FLEXIBILITY IN PRODUCTION AND DELIVERY

Amokabel believes in a flexible organization, which means we can quickly adapt our production and provide customers with short lead times.

INNOVATIONS

Amokabel is driven by technological innovation and has developed more than 9,000 unique cable designs and variants.

HIGH CUSTOMER FOCUS

Amokabel works closely with customers to jointly find the best and most suitable solutions.

RESPONSIBILITY - CSR

Amokabel continuosly strives to support the development of the local region.
Through financial support to local organizations, we have been involved in and contributed to important initiatives that benefit the local community.



AMOSoft

Amosoft is specifically developed for efficient energy transmission in installations with limited space and challenging accessibility.

The specially developed dual-layer insulation provides high flexibility while maintaining electrical and mechanical properties. This makes the cable well suited for applications where both bending radius and reliability are critical factors.

The cable's conductor design, with an optimized number of strands and adapted strand diameter, offers a combination of high flexibility and mechanical stability. This contributes to easier installation without compromising performance or service life.

By using high-quality copper, efficient transmission of large amounts of energy is ensured, while the cable operates within the temperature and performance requirements set for this type of installation, such as in data centers and related technical infrastructure.

Amosoft is tested in accordance with IEC 61238, with cable lugs compliant with DIN 46235.

AMOSoft

Applications:
AmoSoft is an extra flexible double insulated single core cable. Specially designed for use in industrial applications where extreme flexibility is needed. Suitable for use in short-circuit-proof installations, such as distribution panels and switching devices. AmoSoft with its rare flexibility is one of the easiest products to work with.



Properties:

Max continuous conductor temp.	+90°C
Temperature range	-40 to +90°C
Voltage Rating Uo/U	0,6/1kV

Standards:

Conductor	IEC 60228,5	
Construction	EN 50363,7	EN 50363,8
Current rating	IEC 60364-5-52	Table B.52.12
Flame retardant	EN 50575:2014	+ A1:2016
Halogen free	IEC 60754-1,2	

Construction	
Conductor	Bare flexible copper cl5
Insulation	TPE
Outher sheath	Flame retardant TPE
Marking	AmoSoft size 0,6/1kV YY/WW CE
Outer sheath colour	Black (Other colours on request)
Bending radius, fixed installation	4x outer diameter
Flame retardant	Yes

CLASS 5 IEC228 CLASS 5 CONDUCTOR
MAX 90°C MAX CONT. CONDUCTOR TEMPERATURE
HALOGEN FREE HALOGEN FREE ACC. TO IEC60754-1,-2
FLAME RETARDANT ACC. TO IEC 60332-1-2
CE CABLE CONFORM TO LOW-VOLTAGE DIRECTIVE
Eca CPR Eca
CERTIFIED ISO 9001 SVENSK CERTIFIERING



GREENLine HF90

GREENLine HF90 is developed in Norway and meets all requirements and technical specifications for wiring in modern land-based installations. The product is certified according to international designations H05Z-K/H07Z-K.

The insulation material is halogen-free (HF) and flame-retardant (FR). The product is CPR tested, combining high safety with a construction that is easy to install.

GREENLine HF 90 has excellent stripping properties while remaining flexible and user-friendly. The proven experience from our TEXILine HF90 – a well-established wiring solution in the maritime industry – has been carried over to GREENLine HF90.

This particularly applies to the insulation surface design and the optimized copper conductor construction, which provide improved mechanical durability and high operational reliability.
Both insulation and conductor are designed in accordance with the requirements of leading automated wiring robot manufacturers. This ensures a smooth and reliable process during ferrule crimping as well as industrial cable marking.

GREENLine HF90 is available in single- and double-insulated versions in 190 variants ranging from 0.5 mm^2 to 240 mm^2, and can be supplied in a wide range of colors for flexible marking and installation in various environments.

Typical Applications:

- Distribution boards and panel installations
- Starters and control systems
- Internal wiring of electrical equipment

GREENLine HF90 H05Z-K / H07Z-K

APPLICATIONS:

GREENLine H05Z-K/H07Z-K is a XHFFR insulated flexible conductor. Suitable for power supply in buildings and internal wiring in electric cabinets, switchboards, motors and other electric equipment.



PROPERTIES:

Max continuous conductor temp.	+90°C
Temperature range	-40 to +90°C
Voltage Rating H05Z-K Uo/U	300/500 V
Voltage Rating H07Z-K Uo/U	450/750 V

STANDARDS:

Conductor	IEC 60228,5
Construction	EN 50525-3-41
Current rating	VDE 0298-4 table 11
Flame retardant	EN 50575+A1:2014
Halogen free	IEC 60754-1,-2
Smoke density	IEC 61034-1,-2

APPROVAL:

	Intertek Semko
CPR: 0,5mm^2 - 2,5mm^2	Eca
CPR: 4mm^2 - 240mm^2	Dca

Construction

Conductor	Class 5 bare flexible copper
Insulation	XHFFR
MBR fixed installation	4xOD
Marking	GREENLine HF90 H05Z-K <size>mm2 500V AMO CE or GREENLine HF 90 H07Z-K <size>mm2 750V AMO CE
Colour	Customer choice - EN50525-1





GREENLine Power

GREENLine Power is designed for installation in a wide range of environments. It is especially suited for industrial facilities, public buildings, and tunnels, but may also be used in private buildings where its technical properties are required. The cable can be installed in trays or directly in the ground.

It is halogen-free (IEC 60754-1/2), flame-retardant (IEC 60332-1/3), and meets requirements for low smoke emission (IEC 61034-2). The insulation type is engineered for high flexibility. From 4 mm2 and above, the conductor is supplied in Class 5, making the cable soft and easy to handle.
GREENLine Power is cold-resistant down to –25°C and meets impact resistance requirements at –25°C according to IEC 60811-506 / HD 605, making it highly suitable for installations under Nordic conditions.

Applications

- Tunnels:
  Continuous power supply under extreme conditions
- Industrial facilities:
  Ensuring stable operation and minimizing downtime
- Public buildings:
  Protecting people and assets in emergencies
- Emergency and safety systems:
  Reliable energy supply when it matters most

GREENLine Power (RZ1-K)

APPLICATIONS:

GREENLine Power is a halogen free flame retardant 1kV power cable for indoor and outdoor installation. Suitable for installation in the ground in pipes, ducts or direct burial.



PROPERTIES:

Max continuous conductor temp.	+90°C
Temperature range	-40 to +90°C
Voltage rating Uo/U	0,6/1kV

STANDARDS:

Conductor	IEC 60228,5
Construction	IEC60502-1 HD603 5AB
Current rating	IEC 60364-5-52 Table B.52.12
Cold impact test -25C	IEC60811-506
Halogen free	IEC 60754-1
Corrosivity	IEC 60754-2
Smoke	IEC 61034-2
CPR singlecore	Cca
CPR multicore	B2ca

Construction	
Conductor	Bare flexible copper cl5
Insulation	XLPE
Filler	Helical lapping tape (fillers if needed)
Outer sheath	HFFR
3-core identification	Yellow/Green, Brown, Blue
4-core identification	Yellow/Green, Brown, Black, Grey
5-core identification	Yellow/Green, Blue, Brown, Black, Grey
Outer sheath colour	Black (Other colours on request)
Bending radius	10 x Outer diameter

*) 1X column 5, 3G column 2, 4G and 5G column 3. Cross-sections outside table 12 current rating per table D.52.1





GREENLine Control FiRe

GREENLine Control FiRe is a halogen-free, fire-resistant 1 kV power and control cable designed to secure the operation of critical systems under extreme conditions. Even in the event of fire, the cable maintains power supply to emergency circuits such as emergency lighting, smoke ventilation, alarms, elevators, and pumps – ensuring vital functions continue without interruption.

The cable is built with bare flexible copper conductors (Class 5) and XLPE insulation, combined with a halogen-free, flame-retardant outer sheath (HFFR). This construction provides excellent flexibility, long service life, and effective protection against smoke and corrosive gases.

Specially developed for Nordic climate challenges, GREENLine Control FiRe withstands operating temperatures from –40 °C up to +90 °C and meets cold impact resistance requirements at –25 °C (IEC 60811-506). It is suitable for both indoor and outdoor installations – in pipes, ducts, or direct burial in the ground.

Advantages:

- Fire-resistant – maintains emergency circuits when other cables fail
- Climate-adapted – withstands Nordic winter temperatures without performance loss
- High reliability – stable power supply under extreme conditions
- Versatile – suitable for both indoor and outdoor installations

GREENLine Power FiRe (RZ1-K AS+ MICA)

APPLICATIONS:

GREENLine Power FiRe is a halogen free flame retardant and fire resistant 1kV power cable for indoor and outdoor installation.
Suitable for installation in the ground in pipes, ducts or direct burial.



PROPERTIES:

Max continuous conductor temp.	+90°C
Temperature range	-40 to +90°C
Voltage rating Uo/U	0,6/1kV

STANDARDS:

Conductor	IEC 60228,5
Construction	IEC60502-1
	HD603 5AB
Current rating	IEC 60364-5-52
	Table B.52.12
Cold impact test -25C	IEC60811-506
Fire resistant	IEC60331-21
Flame retardant	IEC60332-1
Halogen free	IEC 60754-1
Corrosivity	IEC 60754-2
Smoke	IEC 61034-2

Construction	
Conductor	Bare flexible copper cl5 with Mica tape wrapping
Insulation	XLPE
Filler	Helical lapping tape (fillers if needed)
Outer sheath	HFFR
3-core identification	Yellow/Green, Brown, Blue
4-core identification	Yellow/Green, Brown, Black, Grey
5-core identification	Yellow/Green, Blue, Brown, Black, Grey
Outer sheath colour	Orange
Bending radius	10 x Outer diameter





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