



Cables transforming industries

Quick guide

sumcab

www.sumcab.com



**When standard
isn't enough**

In a world where everything can seem the same, knowing how to see things differently is fundamental to break the mould and offer solutions that really respond to needs.

Standards also exist in cabling, but as in many other areas, they sometimes do not correspond to reality.

There are cables that must withstand extreme temperatures, both very high and very low. Others are designed to withstand millions of movements and mechanical stresses. There are also cables that must be resistant to weathering, remain submerged and resist fire and corrosive substances.

Ultra-fast data cables and high-power cables. Cables that are stepped on, cables that are buried and cables that are suspended at great heights.

For most people, a cable is just a cable. We know that a cable must be the right one to do its job.

That is why, at Sumcab, we dare to think and act differently in order to be able to offer solutions to both standard and specific needs.

Solutions that are in accord with the reality of each industry to make our customers' lives easier and ensure that a cable remains just that for them: a cable.

Manu Romero
CEO

Sumcab Specialcable Group

Sumcab Specialcable Group is a global group that designs, manufactures and supplies the highest quality specialty cables.

We offer solutions for the most diverse markets both in Spain and abroad. We accompany our customers from the project engineering stage through to the carrying out thereof.

We are a leading manufacturer of high value-added special cables for high-demanding industries that require the highest quality.

Sumcab values

240 employee	+25 years of history
90M€ of turnover	+7.000 custom solutions
+50 countries with projects	+100 product certifications
4 R&D + innovation laboratories	4 production centres

At Sumcab, we believe in the transformation of industries through proximity, commitment and disruption. We focus on building a strong, personalised relationship with each client, accompanying them through all phases of the project to ensure results that exceed their expectations.

Our commitment goes beyond delivering a product: we understand your challenges, provide agile and customized solutions and work hard to ensure your success.

Thanks to our disruptive and innovative spirit, we develop solutions for the most diverse and complex applications that stand out for their quality, reliability and ability to make a difference in the most demanding sectors.

This combination of values allows us to meet the strictest global standards and establish ourselves as a benchmark in the industry.

We work hand in hand with our clients

We accompany the client throughout the entire process to provide an optimal, personalized and comprehensive service, always seeking the fastest and most efficient way to achieve the best solution adapted to the requirements of each application.

Sumcab therefore has exclusive and highly innovative products, as well as its own patented systems that enable it to offer technical developments combined with an extensive portfolio of services.



R&D laboratories and proprietary production centres



Products adapted to each industry



Reliability and responsive service



Expert team with multi-sector reach



Agility and excellence in delivery times



More than 25 years of experience in cables for industry

Sumcab quality

umcab cables reduce costs over the entire life cycle of the installation. By operating according to international standards and manufacturing our customized products according to the requirements of each client, we significantly increase the service life of our cables. The rigorousness with which we work also minimises unscheduled downtime, increases durability and prevents future incidents. All this translates into improvements for our clients, both in planning and installation costs.

We have in-house laboratories dedicated to testing the quality of our products at each stage of production, guaranteeing excellence in each type of cable (Medium Voltage, Low Voltage, Instrumentation, Control and Communication). Not only do we test and verify their electrical functions or reaction to fire of each of them, but we also perform more complex dynamic tests, ensuring that we remain true to our commitment: to develop and manufacture products that meet our customers' expectations. Reliable quality cables Sumcab cables.



R+D

Research and development are key to our growth and differentiation. Today's investment drives tomorrow's solutions, laying the foundation for technological innovation and guaranteeing that our business units continue to develop unique materials, processes and products that position us ahead of the competition.



Sumcab is independent so you can continue choosing your path

From copper wire to a ready-to-connect solution. A team of technical specialists carefully evaluates the specific requirements of the application and builds the optimal solution for each customer.

Our manufacturing centres are spaces of innovation, talent and curiosity, where we develop unique projects and high added value production standards. This autonomy provides us with direct product knowledge and connects us with the most demanding requirements of each market. Thanks to our technical capacity and experience, we transform our clients' needs into customized, effective and reliable solutions that drive the success of their applications.

Sumcab Robotics

The small change that changes everything

Industrial robotics requires high precision, and universal solutions do not always meet the specific needs of each application. At Sumcab Robotics, we know that one small change can change everything. This is why we work on the manufacture of innovative ad hoc solutions for the automation and robotics sector, taking into account the nature of the production facility and the system requirements.





Moved by Detail

Every detail is crucial. At Sumcab Projects, we design, manufacture and certify solutions for large infrastructures, all of them in compliance with national and international standards. We know that to ensure success, it is necessary to work on each element of a project with the utmost professional rigour. It is essential to avoid unexpected events, since any of them can have a great impact and always ensure excellent coverage.

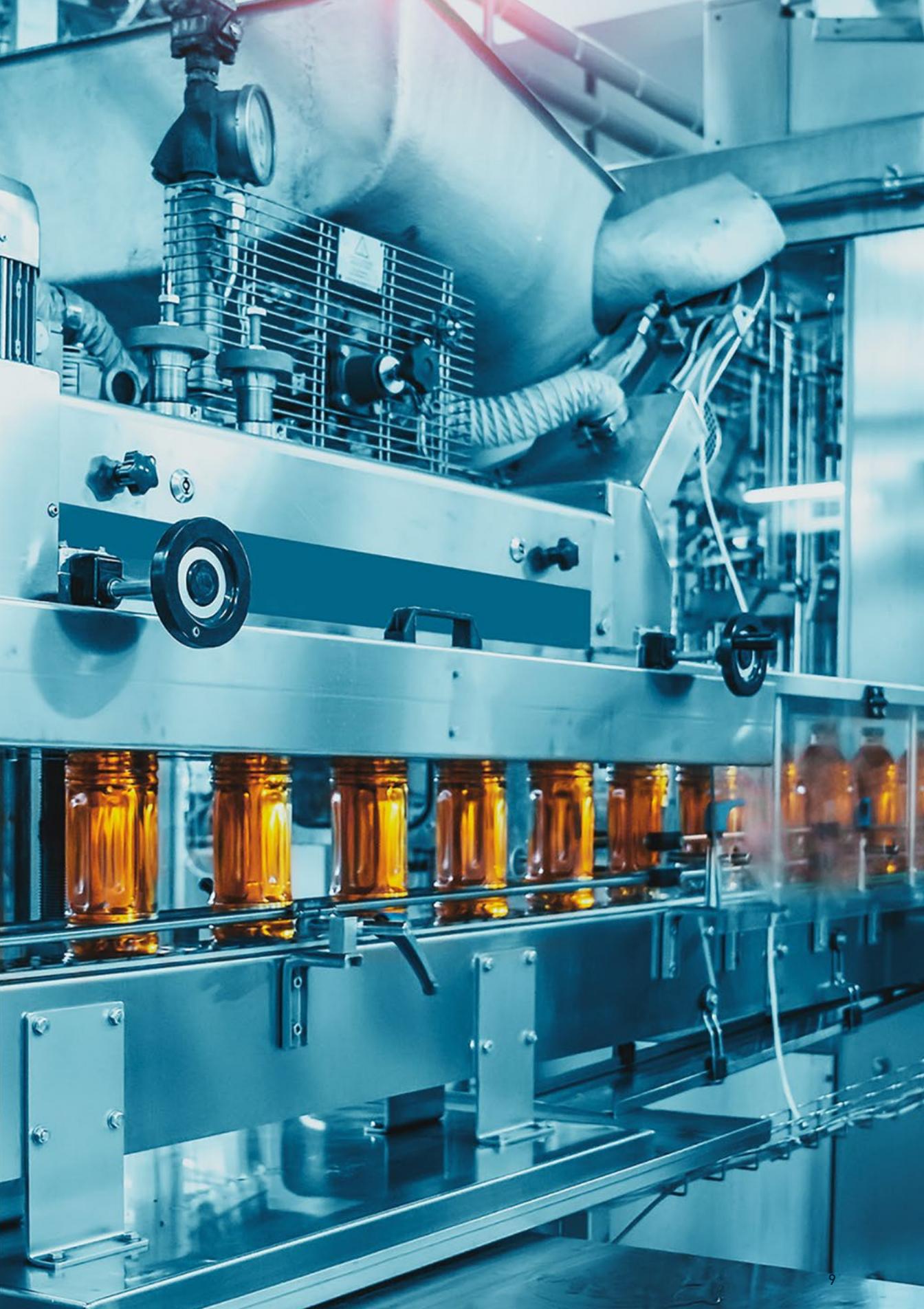
Sumcab Projects

Sumcab Industry



When standard isn't enough

Disruption, a responsive service, adaptability and speed. This is the essence of Sumcab Industry, the business unit dedicated to providing cable solutions for industry, both nationally and internationally. Under the premise **'When standard isn't enough'** and guided by our experience, we work on the manufacture of cable solutions beyond the ordinary, prioritizing the details so that each cable is truly the right one.



Soluciones a medida para cada industria

Industria

In the industrial environment, there are a multitude of applications in which a specific product is required that is capable of adapting to the specifications of each installation. For this reason, at Sumcab we have cables specially designed to meet the needs of all types of industries.



Construction and Infrastructure

For the building and infrastructure market, we develop solutions that cover the specific connection needs of each project, guaranteeing maximum safety and reliability in the installations.

Mining

For applications where the cable is subjected to very high mechanical loads both in dry and humid areas, outdoors or in areas with danger of explosion, especially in mining, industry, quarries and construction sites.





ATEX

In electrical installations where there is a risk of explosion or fire due to the presence of flammable substances, it is most important to take appropriate safety measures.

For this reason, Sumcab develops products for ATEX industries that stand out for their flexibility and resistance. We manufacture specific cables to meet every need in order to minimize risks in this type of environment.

Communication, telecommunications and security

Sumcab's extensive range of communication cables includes cables for data centres, mobile networks, telecommunications, signalling and instrumentation, data transmission, control and fibre optics that can transmit a large volume of information in real time at any distance, at high speed and with reliability.



Renewable energies

To promote green energy use and energy efficiency, we offer a range of highly flexible and easy-to-install cables, helping to reduce project time and costs.

Transport and mobility

Sumcab provides a wide range of specialised cables for traffic worldwide: marine cables, rolling stock cables and cables for airports that comply with the demands of every application.



Sumsave[®]

Flexible or rigid high fire safety cables. For public places, connecting installations, ATEX zones and, in general, any installation with a potential risk of fire.

Sumtronic[®]

Data cables for the transmission of analogue and digital signals. Available with PVC, LSHF or polyethylene sheath.

Sumlene[®]

Low-capacity flexible cables for data transmission. Particularly suitable for EIA RS-232/422 type communication systems, as well as RS485 type communications.

Sumsil[®]

Cables with excellent thermal properties, designed for use in high-temperature environments (up to +200 °C and peaks of 220 °C) and also in very low temperatures (up to -50 °C). Ideal for use in home wiring and, in general, industrial applications.

Sumodrive[®]

Ultra-flexible cables for continuous movement, resistant to bending and pulling. Especially suitable for use in portable chains. Tested to withstand a minimum of one million movement cycles.

Sumline[®]

Rigid cables with outer sheath for industrial use. Available with PVC, LSHF, rubber or polyurethane sheath. These cables are suitable for fixed installations.

PetroSumsave[®]

Flexible or rigid high fire safety cables with outstanding resistance to hydrocarbons. Especially suitable for ATEX zones in the Oil & Gas industry.

Sumflex[®]

Flexible cables with outer sheath for industrial use. Available with PVC, LSHF, rubber or polyurethane sheath. These cables are suitable for both fixed and flexible installations with free movement and without tensile stress or forced guiding.

Sumflex-Mechatronic[®]

Ultra-flexible cables for continuous movement, free or guided, resistant to twisting, bending and pulling. Especially suitable for use in industrial robots. Tested to withstand a minimum of one million movement cycles.

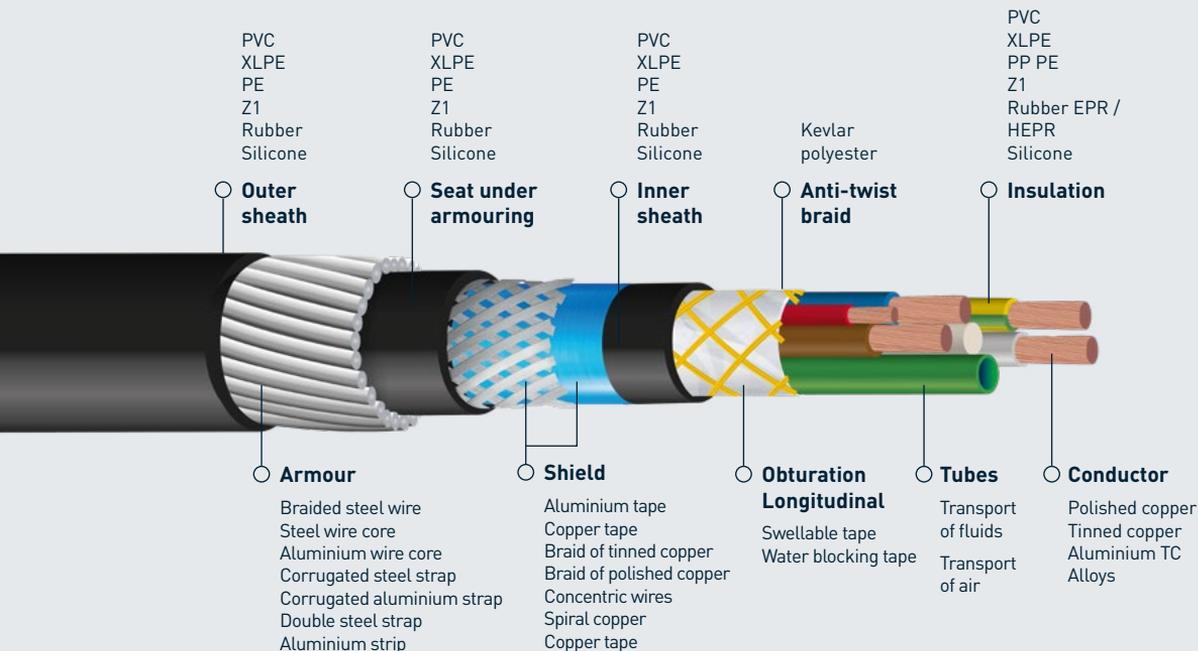
Sumtherm[®]

Flexible control and command cable, Teflon type PTFE for service temperature from up to +260°C in fixed installation and temporarily up to 350°C. Especially indicated for use in industrial applications, such as for wiring rotating machines, in aeronautics, naval or in the metallurgical industry.

Sumtraffic[®]

Cables with high protection against fire, especially indicated for installation inside railway vehicles (Rolling Stock). Certified to EN45545, hazard level HL1-HL3.

Structure and components of an industrial cable



Symbol Legend



Mechanical resistance



<HAR>



Fire resistance



Oils



ATEX



UIC 8950R Standard

Types of certifications



ECOLAB



EN45545-2



Lloyd's Register



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Cables for inspection robots

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Cables for electrical panels

Highly flexible cables used for control, measurement and instrumentation, designed for environments with limited space and complex layouts, complying with international standards or UL/CSA.

Sumflex®H05V-K 300/500V



PVC flexible single conductor cable

Sumflex®H07V-K 450/750V



PVC flexible single conductor cable

Sumflex®KU 1100 Style 10269



PVC flexible single conductor cable, UL & CSA certification

Sumsave®H05Z1-K 300/500V



LSHF flexible single conductor cable.



Sumsave®H07Z1-K 450/750V



LSHF flexible single conductor cable

Sumflex®KU 1120 Style 1569



PVC flexible single conductor cable, UL & CSA certification

Sumflex®KU 1110 Style 1007 300V 80°C



PVC flexible single conductor cable, UL & CSA certification

Sumflex®KU 1100 Style 1015 600V 105°C



PVC semi-flexible single conductor cable, UL & CSA certification



Flexible control cables

Flexible cables for use in control and industrial automation systems, designed for quick installation and compatible with national and international standards.

Sumflex® VV-F 300/500V



Flexible control cable, PVC sheath and insulation

Sumflex® EB VV-F 300/500V



Flexible control cable, PVC sheath and insulation. Intrinsic safety.

Sumflex® ÖPVC 300/500V (YSLY-JZ)



Flexible control cable, PVC sheath and insulation. Suitable for industrial applications.

Sumflex® Fortis+ 500 300/500V (Li12Y12Y)



Flexible power cable, LSHF insulation and TPE sheath.



ECOLAB

Sumflex® Viro 0,6/1Kv



Flexible cables for fair-style garlands. PVC sheath and insulation.

Sumflex® Tray Cable 600V



Power and control flexible cable Special PVC sheath. TC-ER certification for cable laying without tray protection.

Sumsave® HSLH 300/500V



Flexible control cable, LSHF sheath and insulation.

Sumflex® 510 + UL & CSA 600V (Li9Y11Y)



Flexible control cable. Triple regulation UL/CSA. PUR sheath, resistant to oils and greases.



**Sumsave® Z1Z1-F
300/500V**



Flexible control cable. LSHF insulation and sheath.

**Sumsave®H07BQ-F
450/750V**



Flexible power and control cable. Rubber insulation and PUR sheath. Friction resistant.

**Sumflex® H05VV5-F
300/500V**



Control cable PVC 500V. PVC insulation and sheath



Other cable constructions

Sumflex® PUR-JZ 300/500V

Control cable PUR 500V. PVC insulation and PUR sheath.



Low voltage electrical cables

Electric cables with PVC or LSHF sheath for general installation, with fireproof properties, halogen-free and low emission of smoke and toxicity.

Sumflex® VV-K 0,6/1Kv



Flexible power and control cable, PVC sheath and insulation.

Sumflex® RV-K 0,6/1Kv



Flexible power cable, 90°C XLPE insulation and PVC sheath.

Sumflex® VV-K EB 0,6/1Kv



Flexible power and control cable, PVC sheath and insulation. Intrinsic safety.

Sumflex® RV-K FB 0,6/1Kv



Flexible power cable, 90°C XLPE insulation and PVC sheath.

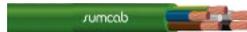


**Sumflex® ÖPVC 0,6/1Kv
(YSLY-JZ)**



Flexible power and control cable, PVC sheath and insulation, black sheath.

Sumsave® RZ1-K 0,6/1Kv



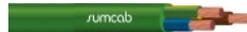
Flexible power cable, 90°C XLPE insulation and LSHF sheath.

**Sumsave® AS+ SZ1-K
0,6/1Kv**



Flexible power cable, special silicone insulation, 90°C, LSHF and fire resistant.

Sumsave® Z1Z1-K 0,6/1Kv



Flexible power cable, LSHF insulation and sheath.



**Sumsave® HSLH GRONE
0,6/1Kv**



Flexible power and control cable, LSHF sheath and insulation.

Sumflex® Y-FTR (ESUY)



PVC control cable, polished copper braid (100% coverage), transparent.



Other cable constructions

Sumflex® VV-K FB 0,6/1Kv

Flexible power cable, PVC sheath, fire retardant. PVC insulation and sheath.

Sumflex® VV-K FB - EB 0,6/1Kv

Flexible power cable, PVC insulation and sheath, blue, intrinsic zone.



Sumflex® DV-K 0,6/1Kv

Flexible power cable, EPR insulation, 90°C, PVC sheath.

Sumsave® N2XH 0,6/1Kv

Rigid power cable, XLPE insulation, 90°C, LSHF sheath.

Sumsave® RZ1-K Mica 0,6/1Kv

Flexible power cable, Mica insulation + XLPE 90°C, LSHF and fire resistant.

Sumsave® RZ1-K D.I 0,6/1Kv

Flexible power cable, XLPE insulation 90°C, with 1.5 section signal wire in red colour, LSHF.

Sumsave® DZ1-K 0,6/1Kv

Flexible power cable, EPR insulation, 90°C, LSHF.

Medium voltage cables

Cables for energy transport in voltages between 1.8kV and 45kV, available in unipolar and tripolar versions, with conductors and armoring in copper or aluminium. These offer specialised insulation and sheath in PVC or LSHF, with high resistance and fireproof properties (halogen-free, low toxicity and smoke). Ideal for distribution networks, renewable energy and industrial applications.

Sumline® RHV (NA2XSY, N2XSEY) 6/10Kv-8,7/15Kv-12/20Kv-18/30Kv-26/45Kv



Medium voltage copper cable, class 2 conductor, XLPE insulation and PVC sheath. Annealed copper wire shield, arranged in open helix + copper strap.

Sumline® DHV 6/10Kv-8,7/15Kv-12/20Kv-18/30Kv-26/45Kv



Medium voltage copper cable, class 2 conductor, EPR insulation and PVC sheath. Annealed copper wire shield, arranged in open helix + copper strap.

Sumline® RHVMV 6/10Kv-8,7/15Kv-12/20Kv-18/30Kv-26/45Kv



Medium voltage copper cable, armoured with with a steel wire core, class 2 conductor, XLPE insulation and PVC sheath. Annealed copper wire shield, arranged in open helix + copper strap.

Sumline® RHVfV 6/10Kv-8,7/15Kv-12/20Kv-18/30Kv-26/45Kv



Medium voltage copper cable, armoured with steel strap, class 2 conductor, XLPE insulation and PVC sheath. Annealed copper wire shield, arranged in open helix + copper strap.

Sumline® RHZ1 (N2XSH, N2XSEH) 6/10Kv-8,7/15Kv-12/20Kv-18/30Kv-26/45Kv



Medium voltage copper cable, class 2 conductor, XLPE insulation and LSHF sheath. Annealed copper wire shield, arranged in open helix + copper strap.

Sumsave® RHZ1MZ1 6/10Kv-8,7/15Kv-12/20Kv-18/30Kv-26/45Kv



Medium voltage copper cable, armoured with a steel wire core, class 2 conductor, XLPE insulation and LSHF sheath. Annealed copper wire shield, arranged in open helix + copper strap.

Sumsave® HEPRZ1 6/10Kv-8,7/15Kv-12/20Kv-18/30Kv-26/45Kv



Medium voltage copper cable, class 2 conductor, HEPR insulation and LSHF sheath. Annealed copper wire shield, arranged in open helix + copper strap.

Sumsave® HEPRZ1MZ1 6/10Kv-8,7/15Kv-12/20Kv-18/30Kv-26/45Kv



Medium voltage copper cable, armoured with a steel wire core, class 2 conductor, HEPR insulation and LSHF sheath. Annealed copper wire shield, arranged in open helix + copper strap.

Sumline® RHV (NA2XSY) AL 6/10Kv-8,7/15Kv-12/20Kv-18/30Kv-26/45Kv



Medium voltage Aluminium cable, class 2 conductor, XLPE insulation and PVC sheath. Annealed copper wire shield, arranged in open helix + copper strap.

Shielded cables for industrial use

Shielded cables for protection from electromagnetic, electrical and magnetic interference, guaranteeing optimal performance by keeping external or internal noise from affecting the signal or environment.

Copper braided shielded power and control cables

Sumflex® Fortis+ 500C 300/500V



Flexible power and control cable, copper braided shield, 500V and PVC.

ECOLAB

Sumflex® RC4V-K 0,6/1Kv



Flexible power cable, copper braided shield, XLPE insulation, 0,6/1Kv and PVC sheath.

Sumflex® H05VVC4V5-K 300/500V



Flexible control cable, copper and tin braided shield, PVC, 500V. Resistant to oils and greases.



Sumsave® HSLCH 300/500V



Flexible control cable, copper braided shield, LSHF insulation and sheath, 500V.

Sumflex® Tray Cable CY 600V (TC-ER Certification)



Flexible power and control cable, copper and tin braided shield, 600V and PVC.



Sumflex® EB-CY 300/500V (ICY-EB)



Flexible control cable, copper braided shield, PVC insulation and sheath, blue. For intrinsic safety.



Sumflex® PVC-CY 300/500V



Flexible control cable, copper and tin braided shield, PVC, 500V. Transparent sheath.



Sumflex® 510C UL & CSA 1000V 80°C



Flexible control cable, copper braided shield, PUR, 600V.



Sumsave® RZ1C4Z1-K 0,6/1Kv



Flexible power cable, copper braided shield, XLPE insulation, 0,6/1Kv and LSHF sheath.

Sumflex® YCY 300/500V



Flexible control cable, copper braided shield, PVC insulation and sheath.

Sumsave® RC4Z1-K 0,6/1Kv



Flexible power cable, copper braided shield, XLPE insulation, 0,6/1Kv and LSHF sheath.

Sumflex® Tri H05VVC4V5-K + UL&CSA 600V



Flexible control cable, copper and tin braided shield, PVC, 600V Tri-listed UL, CSA, EN.



Sumflex® YSLCY 300/500V



Flexible control cable, copper and tin braided shield, PVC insulation and sheath, 500V.

Sumsave® Z1C4Z1-K 300/500V



Flexible power cable, copper braided shield, LSHF sheath, 500V.

Other cable constructions

Sumflex® PUR-C-OZ 300/500V

Flexible control cable, copper braided shield, PUR, 500V.



Sumflex® VC4V-K 0.6/1kV

Flexible power and control cable, copper braided shield, PVC, 0,6/1Kv.

Sumsave® AS RZ1C4Z1-K 0,6/1kV

Flexible power cable, copper braided shield, XLPE insulation, LSHF seating and sheath, 0,6/1Kv.

Sumflex® EB-CY-TP 300/500V

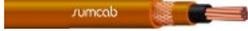
Flexible control cable, shield of copper braided in pairs, PVC insulation and sheath, blue. Intrinsic safety.



Cables transforming industries: Quick guide

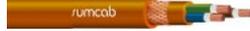
Fire resistant Cu braided shielded power and control cables

Sumsave® AS+ SZ1C4Z1-K 0,6/1Kv



Flexible power cable, copper braided shield, silicone insulation, LSHF and fire resistant.

Sumsave® AS+ RZ1C4Z1-K Mica 0,6/1Kv



Flexible power cable, copper braided shield, Mica and XLPE insulation, LSHF and fire resistant.

Differently shielded power and control cables

Sumsave® AS N2XCH 0,6/1Kv



Rigid power cable, shield of copper wires + counter-spiral with copper tape, XLPE insulation and LSHF insulation and sheath.

Sumflex® NYCWY 0,6/1Kv



Rigid power cable, shield of copper wires + counter-spiral with copper tape, PVC insulation and sheath.

Sumflex® NYCY 0,6/1Kv



Rigid power cable, shield of copper wires + counter-spiral with copper tape, PVC insulation and sheath.

Sumflex® RVC7V-K 0,6/1Kv



Flexible power cable, shield with copper strap, XLPE insulation, 90°C and PVC sheath.

Sumsave® 1Z1C7Z1-K 0,6/1Kv



Flexible power cable, shield of copper strap, LSHF sheath.

Power cables for variable-frequency drives (VFD)

Sumsave® VFD ROZ1-K 0,6/1Kv (2XSLCH-JB)



Flexible power cable for engines with variable frequency drive, shield of aluminium tape/copper and tin braid, XLPE insulation and LSHF sheath.

Sumflex® VFD RVKV-K 0,6/1Kv



Flexible power cable for engines with variable frequency drive, shield of polished copper braid + strap, XLPE insulation and PVC sheath.

Sumsave® VFD RZ1KZ1-K 0,6/1Kv



Flexible power cable for engines with variable frequency drive, shield of polished copper braid + strap, XLPE insulation and LSHF sheath.

Sumflex® VFD EMV2 0,6/1Kv (2YSLCY-JB)



Flexible power cable, shield of copper strap, XLPE insulation, 90°C and PVC sheath. Flexible power cable for engines with variable frequency drive, shield of aluminium tape/copper and tin braid, XLPE insulation and PVC sheath.

Sumflex® VFD 3GSEHSCH 3,6/6Kv / 6/10Kv



Flexible medium voltage cable to power engines with variable frequency drive, individual shield, overall shield with polished copper braid + counter-spiral with strap, EPR insulation, LSHF sheath.

Other cable constructions

Sumflex® VFD EMV3 0,6/1Kv (2YSLCY-JB)

Flexible power cable for engines with variable frequency drive, shield of aluminium tape/copper and tin braid, XLPE insulation and PVC sheath.

Sumflex® VFD 3GSEGCY 3,6/6Kv

Flexible medium voltage cable to power engines with variable frequency drive, individual shield, overall shield with polished copper braid + counter-spiral with strap, EPR insulation, PVC sheath.

Sumflex® VFD 3GSEGCY 6/10Kv

Flexible medium voltage cable to power engines with variable frequency drive, individual shield, overall shield with polished copper braid + counter-spiral with strap, EPR insulation, PVC sheath.

Aluminium shielded instrumentation and control cables

Sumflex® Pos (VOV-K) 300/500V



Flexible instrumentation cable, PVC insulation and sheath, overall aluminium shield, 100% coverage + copper and tin draining wire.

Sumflex® Par-Pos (VHOV-K) 300/500V



Flexible instrumentation cable, PVC insulation and sheath, individual shield in pairs, overall aluminium shield, 100% coverage + copper and tin draining wire.

Sumline® RE-2X(St)-Y-Fl PIMF 300/500V



Semi-rigid instrumentation cable, XLPE insulation and PVC sheath, individual shield in pairs, overall aluminium shield, 100% coverage + copper and tin draining wire.

Sumline® RE-2X(St)-Y-Fl PIMF EB 300/500V



Semi-rigid instrumentation cable, XLPE insulation, PVC sheath, blue, individual shield in pairs, overall aluminium shield, 100% coverage + copper and tin draining wire. Intrinsic safety.



Sumline® RE-2X(St)-Y-Fl EB 300/500V



Semi-rigid instrumentation cable, XLPE insulation, PVC sheath, blue, shield of aluminium tape/polyester, 100% coverage + copper and tin draining wire.

Sumsave® RE-2X(St)-H PIMF 300/500V



Semi-rigid instrumentation cable, XLPE insulation and LSHF sheath. Shield of aluminium tape/polyester in pairs and overall shield, 100% coverage + wire Copper and tin draining wire.

Sumsave® RE-2X(St)-H 300/500V



Semi-rigid instrumentation cable, XLPE insulation and PVC sheath, individual shield in pairs, overall aluminium shield, 100% coverage + copper and tin draining wire.

Sumsave® Z1HOZ1-K 300/500V



Flexible instrumentation cable, LSHF insulation and sheath, individual shield in pairs, overall aluminium shield, 100% coverage + copper and tin draining wire.



Sumsave® Z1OZ1-K 300/500V



Flexible power cable, LSHF insulation and sheath. Overall aluminium shield, 100% coverage + copper and tin draining wire.

Sumline® EGSF (French Standard NF M 87-202)



Rigid instrumentation cable, XLPE insulation and PVC sheath. Overall aluminium shield, 100% coverage + copper and tin draining wire.

Sumline® EISF (French Standard NF M 87-202)



Rigid instrumentation cable, XLPE insulation and PVC sheath. Overall aluminium double shield, 100% coverage + copper and tin draining wire.

Sumline® EGSF EB (French Standard NF M 87-202)



Rigid instrumentation cable, XLPE insulation and PVC sheath, blue. Overall aluminium shield, 100% coverage + copper and tin draining wire. Intrinsic safety.



Sumline® EISF EB (French Standard NF M 87-202)



Rigid instrumentation cable, XLPE insulation and PVC sheath, blue. Overall aluminium double shield, 100% coverage + copper and tin draining wire. Intrinsic safety.



Other cable constructions

Sumflex® ROV-K 300/500V

Flexible instrumentation cable, XLPE insulation and PVC sheath, overall aluminium shield, 100% coverage + copper and tin draining wire.

Sumline® RE-2X(St)Y-Fl 300/500V (RE-2X(St)Y)

Semi-rigid instrumentation cable, XLPE insulation and PVC sheath. Overall aluminium shield, 100% coverage + copper and tin draining wire.

Sumsave® RH0Z1-K 300/500V

Flexible instrumentation cable, XLPE insulation and LSHF sheath. Individual shield in pairs, overall aluminium shield, 100% coverage + copper and tin draining wire.

Sumsave® ROZ1-K 300/500V

Flexible instrumentation cable, XLPE insulation and LSHF sheath. Overall aluminium shield, 100% coverage + copper and tin draining wire.

Cables transforming industries: Quick guide

Sumline® EGSF FRLSZH (French Standard NF M 87-202)

Rigid instrumentation cable, XLPE insulation and LSHF sheath. Overall aluminium shield, 100% coverage + copper and tin draining wire.

Sumline® EISF FRLSZH (French Standard NF M 87-202)

Rigid instrumentation cable, XLPE insulation and LSHF sheath. Overall aluminium double shield, 100% coverage + copper and tin draining wire.

Sumline® EGSF FRLSZH EB (French Standard NF M 87-202)

Rigid instrumentation cable, XLPE insulation and LSHF sheath. Overall aluminium shield, 100% coverage + copper and tin draining wire.

Sumline® EGSF FRLSZH EB (French Standard NF M 87-202)

Rigid instrumentation cable, XLPE insulation and LSHF sheath. Overall aluminium double shield, 100% coverage + copper and tin draining wire.



Armoured cables

Armoured cables designed for environments with explosive atmospheres (ATEX), subterranean applications and conditions of high mechanical demand, protecting the conductors from possible damage and ignition. Ideal for mining, petrochemistry, refineries, underwater installations and places with a risk of physical aggression or presence of rodents.



Power and control armoured cables with steel wire core, ATEX

Sumflex® RVMV-K FB RH 0,6/1Kv (XLPE/PVC/SWA/ PVC)



Flexible power, output and control cable with steel wire armour, XLPE insulation and PVC sheath. Resistant to hydrocarbons.



Sumsave® RZ1MZ1-K 0,6/1Kv (XLPE/LSZH/SWA/ LSZH)



Flexible power, output and control cable with steel wire armour, XLPE insulation and LSHF sheath.



Petro-Sumsave® RZ1MZ1-K RH 0,6/1Kv (XLPE/LSZH/ SWA/LSZH)



Flexible power, output and control cable with steel wire armour, XLPE insulation and LSHF sheath. Resistant to hydrocarbons.



Sumsave® (AS+) RZ1MZ1-K Mica 0,6/1Kv (MICA/XLPE/ LSZH/SWA/LSZH)



Flexible power, output and control cable with steel wire armour, insulation, fire resistant and LSHF sheath.

Sumflex® RC4VMV-K 0,6/1Kv (XLPE/CWB/PVC/ SWA/PVC)



Flexible power, output and control cable, shielded with copper braid, with steel wire armour. XLPE insulation and PVC sheath.



Sumline® RVMV-R 0,6/1Kv (XLPE/PVC/SWA/PVC)



Rigid power, output and control cable with steel wire armour. XLPE insulation and PVC sheath.



Sumsave® (AS+) SZ1MZ1-K 0,6/1Kv (SI/LSZH/SWA/ LSZH)



Flexible power, output and control cable with steel wire armour. Silicone insulation, LSHF sheath and fire resistant.

Sumsave® 2XHRH 0,6/1Kv (XLPE/LSZH/SWA/LSZH)



Rigid power, output and control cable with steel wire armour. XLPE insulation and LSHF sheath.

Instrumentation and control armoured cables with steel wire core, ATEX

Sumflex® VHOVMV-K FB RH 300/500V (PVC/IAM/ CAM/PVC/SWA/PVC)



Flexible instrumentation cable with steel wire armour, individual aluminium shield in pairs and overall shield, 100% sheath + copper and tin draining wire. PVC insulation and sheath. R.H.



Sumflex® VOVMV-K FB RH 300/500V (PVC/CAM/PVC/ SWA/PVC)



Flexible instrumentation cable with steel wire armour, individual overall aluminium shield, 100% sheath + copper and tin draining wire. PVC insulation and sheath. R.H.



Sumsave® RE-2X(St) HSWAH PiMF 300/500V



Rigid instrumentation cable with steel wire armour, individual aluminium shield in pairs and overall shield, 100% sheath + copper and tin draining wire. XLPE insulation and LSHF sheath.

Sumsave® RE-2X(St) YSWAY-Fl PiMF 300/500V



Rigid instrumentation cable with steel wire armour, individual aluminium shield in pairs and overall shield, 100% sheath + copper and tin draining wire. XLPE insulation and PVC sheath.

**Petro-Sumsave®
Z1HOZ1MZ1-K RH
300/500V (XLPE/IAM/CAM/
LSZH/SWA/LSZH)**



Flexible instrumentation cable with steel wire armour, individual aluminium shield in pairs and overall shield, 100% sheath + copper and tin draining wire. LSHF insulation and sheath. Resistant to hydrocarbons.



**Petro-Sumsave®
Z1OZ1MZ1-K RH 300/500V
(XLPE/CAM/LSZH/SWA/
LSZH)**



Flexible instrumentation cable with steel wire armour, individual overall aluminium shield, 100% sheath + copper and tin draining wire. Sn. LSHF insulation and sheath. Resistant to hydrocarbons.



**Sumsave®
RE-2X(St)YSWAY-Fl
300/500V**



Rigid instrumentation cable with steel wire armour, overall aluminium shield, 100% sheath + copper and tin draining wire. XLPE insulation and PVC sheath.

**Sumsave® RE-2X(St)
HSWAH 300/500V**



Rigid instrumentation cable with steel wire armour, overall aluminium shield, 100% sheath + copper and tin draining wire. XLPE insulation and LSHF sheath.

**Sumsave® Z1HOZ1MZ1-K
300/500V (XLPE/IAM/CAM/
LSZH/SWA/LSZH)**



Flexible instrumentation cable with steel wire armour, individual aluminium shield in pairs and overall shield, 100% sheath + copper and tin draining wire. LSHF insulation and sheath.

**Sumsave® Z1OZ1MZ1-K
300/500V (XLPE/CAM/
LSZH/SWA/LSZH)**



Flexible instrumentation cable with steel wire armour, overall aluminium shield, 100% sheath + copper and tin draining wire. Sn. LSHF insulation and sheath.

**Sumsave® RHOZ1MZ1
300/500V (XLPE/IAM/CAM/
XLPE/SWA/LSZH)**



Rigid instrumentation cable with steel wire armour, individual aluminium shield in pairs and overall shield, 100% sheath + copper and tin draining wire. XLPE insulation and LSHF sheath.

Other cable constructions

**Sumline® VHOVMV FB RH
300/500V (PVC/IAM/CAM/
PVC/SWA/PVC)**

Rigid instrumentation cable with steel wire armour, individual aluminium shield in pairs and overall shield, 100% sheath + copper and tin draining wire. PVC insulation and sheath. R.H.



**Sumline® VOVMV FB RH
300/500V (PVC/CAM/PVC/
SWA/PVC)**

Rigid instrumentation cable with steel wire armour, overall aluminium shield, 100% sheath + copper and tin draining wire. PVC insulation and sheath. R.H.



**Sumline® RHOVMV-R
300/500V (PVC/IAM/CAM/
XLPE/SWA/PVC)**

Rigid instrumentation cable with steel wire armour, individual aluminium shield in pairs and overall shield, 100% sheath + copper and tin draining wire. XLPE insulation and PVC sheath.

**Sumflex® VHOVMV-K
300/500V (PVC/IAM/CAM/
PVC/SWA/PVC)**

Flexible instrumentation cable with steel wire armour, individual aluminium shield in pairs and overall shield, 100% sheath + copper and tin draining wire. PVC insulation and sheath.

**Sumflex® VOVMV-K
300/500V (PVC/CAM/PVC/
SWA/PVC)**

Flexible instrumentation cable with steel wire armour, overall aluminium shield, 100% sheath + copper and tin draining wire. PVC insulation and sheath.

**Sumsave® RHOZ1MZ1-K
300/500V (XLPE/IAM/CAM/
XLPE/SWA/LSZH)**

Flexible instrumentation cable with steel wire armour, individual aluminium shield in pairs and overall shield, 100% sheath + copper and tin draining wire. XLPE insulation and LSHF sheath.

**Sumsave® ROZ1MZ1-K
300/500V (XLPE/CAM/
XLPE/SWA/LSZH)**

Flexible instrumentation cable with steel wire armour, overall aluminium shield, 100% sheath + copper and tin draining wire. XLPE insulation and LSHF sheath.

**Sumsave® ROZ1MZ1
300/500V (XLPE/CAM/
XLPE/SWA/LSZH)**

Rigid instrumentation cable with steel wire armour, overall aluminium shield, 100% sheath + copper and tin draining wire. XLPE insulation and LSHF sheath.

Power and control armoured cables with steel straps

**Sumflex® RVFV-K 0,6/1Kv
(XLPE/PVC/STA/PVC)**



Flexible power, output and control cable with steel strap armour. XLPE insulation and PVC sheath.

**Sumsave® RZ1FZ1-K
0,6/1Kv (XLPE/LSZH/STA/
LSZH)**



Flexible power, output and control cable with steel strap armour. XLPE insulation and LSHF sheath.

**Sumline® RVFV 0,6/1Kv
(XLPE/PVC/STA/PVC)**



Rigid power, output and control cable with steel strap armour. XLPE insulation and PVC sheath.

**Sumsave® RZ1FZ1 0,6/1Kv
(XLPE/LSZH/STA/LSZH)**



Rigid power, output and control cable with steel strap armour. XLPE insulation and LSHF sheath.

Cables transforming industries: Quick guide

Instrumentation and control armoured cables with steel strap

Sumline® VOVFV 300/500V (PVC/CAM/PVC/STA/PVC)



Rigid instrumentation cable, with overall aluminium shield, 100% coverage + copper and tin draining wire and steel strap armour. PVC insulation and sheath.

Sumline® EIFA (French Standard NF M 87-202)



Rigid instrumentation cable, with individual aluminium shield in pairs and overall shield, 100% sheath + copper and tin draining wire and steel strap armour. PVC insulation and sheath, blue.

Sumline® EGFA (French Standard NF M 87-202)



Rigid instrumentation cable, with overall aluminium shield, 100% sheath + copper and tin draining wire. PVC insulation and sheath, blue.

Other cable constructions

Sumsave® ROZ1FZ1-R FB RH 300/500V (XLPE/CAM/LSZH/STA/LSZH)

Rigid instrumentation cable, with overall aluminium shield, 100% sheath + copper and tin draining wire and steel strap armour. XLPE insulation and LSZH sheath. Resistant to hydrocarbons.

Sumsave® ROZ1FZ1-R FB RH 300/500V (XLPE/CAM/LSZH/STA/LSZH)

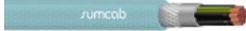
Rigid instrumentation cable, individual aluminium shield in pairs and overall shield, 100% coverage + copper and tin draining wire. LSZH insulation and sheath.

Sumline® EGFA FRLSZH (French Standard NF M 87-202)

Rigid instrumentation cable, overall aluminium shield, 100% sheath + copper and tin draining wire. LSZH insulation and sheath.

Power and control armoured cables with steel braid (anti-rodents)

Sumflex® 1050 SY 0,6/1Kv



Flexible power and control cable with steel wire armour, 80% coverage. PVC insulation and sheath, blue colour.

Sumflex® 550 SY 0,6/1Kv



Flexible power and control cable with steel braid armour, 80% coverage. PVC insulation, sheath and sheath.

Sumflex® 80 SY 500V



Flexible instrumentation cable with steel wire armour, 80% coverage, overall aluminium shield, 100% coverage with copper and tin braid, 60% coverage. PVC insulation and sheath.

Instrumentation and control armoured cables with steel braid

Sumflex® PAR-SY 500V



Flexible instrumentation cable with steel wire armour, 80% coverage, overall aluminium shield, 100% coverage. PVC insulation and sheath.

Sumflex® POS-SY 500V



Flexible instrumentation cable with steel wire armour, 80% sheath, overall aluminium shield, 100% coverage. PVC insulation and sheath.

Sumflex® POS-CY-SY 500V (LI2y(St)CYSY)



Flexible instrumentation cable with steel wire armour, 80% coverage, overall aluminium shield, 100% coverage with copper and tin braid, 60% coverage. PVC insulation and sheath.

Other cable constructions

Sumline® RE-2X(St)YQY 500V

Rigid instrumentation cable with steel braid armour, 80% coverage, overall aluminium shield, 100% coverage. XLPE insulation and PVC sheath.

Sumflex® YCY-SY 500V

Flexible instrumentation cable with steel wire armour, 80% coverage, overall aluminium shield with polished copper braid, 60% coverage. PVC insulation and sheath.

Flexible rubber cables

Highly flexible and robust rubber cables, designed for fixed and mobile applications in demanding environments. Resistant to adverse climate conditions, chemical agents and mechanical efforts, they are suitable for welding, heavy machinery, mobile tools and marine application.

Sumflex® H07RN-F 450/750V



Flexible rubber cable. EPR insulation and rubber sheath.

Sumsave® H07ZZ-F 450/750V



Flexible rubber cable. LSZH rubber insulation and FRLSHF rubber sheath.

Sumflex® DN-F 0,6/1Kv



Flexible rubber cable. EPR insulation and rubber sheath. For mobile services.

Sumflex® RRC4N-F 500V



Flexible rubber cable. EPR insulation and rubber sheath. Copper and tin braided shield, 80% coverage.

Sumflex® H01N2-D 100V



Flexible single-pole rubber cable. Special rubber insulation. Welding sets. Mobile installation.

Sumflex® NSGAFÖU 1,8/3Kv.



Flexible single-pole rubber cable. Rubber insulation and sheath.

Sumflex® NSSHÖU 0,6/1Kv



Flexible rubber cable. EPR insulation and rubber sheath, yellow colour.

Sumflex® H05RN-F 300/500V



Flexible rubber cable. EPR insulation and rubber sheath. Mobile installation.

Other cable constructions

Sumflex® H05RR-F 300/500V

Flexible rubber cable. EPR insulation and rubber sheath. Fixed installation.

Sumflex® DN-K 0,6/1Kv

Flexible rubber cable. EPR insulation and rubber sheath. For fixed installation.

Sumflex® H01N2-E 100V

Extraflexible single-pole rubber cable. Special rubber insulation. Fixed installation.

Sumsave® NSHXAFÖU 1,8/3Kv.

Flexible single-pole rubber cable. EPR insulation and LSHF rubber sheath.

Flexible cables for mobile services

These cables are designed for applications of continuous movement in industrial environments. They are ideal for mobile equipment such as cranes, lifts, elevators and overhead cranes. Their robust construction allows for use in cable guiding systems, such as automatic retraction systems and pulley guiding systems. This design ensures durability and reliability in demanding applications.

Cables for lifts, elevators and cable carriers (Festoon)

Sumflex® H07VVH6-F 750V



Flexible flat PVC cable. PVC insulation and sheath

Sumflex® NGFLGÖU 0,6/1Kv



Extra-flexible flat rubber cable.

Sumflex® KYCFLY 500V



Flexible flat PVC cable. Overall copper and tin braided shield, 80% coverage.

Sumflex® M(STD)HÖU & MCHÖU 300/500V



Extra-flexible flat rubber cable. Overall copper and tin braided shield, 80% coverage.

Cables transforming industries: Quick guide

Sumflex® Festoon PUR-HF 0,6/1Kv



Extra-flexible cable, PUR sheath. Excellent mechanical resistance.

Sumflex® Festoon PUR-C-HF 0,6/1Kv



Extra-flexible cable, PUR sheath. Overall copper and tin braided shield, 80% coverage. Excellent mechanical resistance.

Other cable constructions

Sumflex® Geonbaron 300/500V

Extra-flexible cable with tensile strength. PVC insulation and sheath (transparent)

Sumflex® KYFLY 500V

Flexible flat PVC cable. PVC insulation and sheath. Low temperature environments.

Sumsave® AS TPR 500V

Flexible flat halogen-free cable.

Cables for button pads

Sumflex® CRANE (YMHY-KT, YMHY-KST) 300/500V



Extra-flexible rubber cable with central steel guide. PVC insulation and sheath.

Sumflex® BAU 2S (Y2TY) 300/500V



Extra-flexible cable with double steel guide. PVC insulation and sheath.

Sumflex® 90A/210R 300/500V



Extra-flexible cable with PVC insulation and sheath.

Sumflex® FLGÖU 300/500V



Flexible PVC cable for electrical connection in lifts and forklifts.

Cables for basket/spreader

Sumflex® YSLTÖ 300/500V



Extra-flexible cable with self-supporting guide for cable retraction systems for baskets. Rubber sheath.

Sumflex® BASKET-LIFT 0,6/1Kv



Extra-flexible cable with self-supporting guide. Rubber insulation and PVC sheath.

Sumflex® 3GSLTÖE-J 0,6/1Kv



Extra-flexible cable with self-supporting guide. Rubber insulation and PUR sheath.

Cables for motorised inertia reels (Drum)

Sumflex® G3 (N)TSCGEWÖU (SMK)



1,8/3Kv-3,6/6Kv-6/10Kv-8,7/15Kv-12/20Kv-14/25Kv-18/30Kv
Extra-flexible medium voltage cable with rubber sheath, red colour. With an anti-twist protection braid and excellent mechanical resistance.

Sumflex® NSHTÖU SMK 0,6/1Kv



Extra-flexible cable with rubber insulation for cable retraction system. Aramid core reinforcement. Max. speed 180 m/min with anti-twist protection braid.

Sumflex® NSHTÖU 0,6/1Kv



Extra-flexible cable with rubber insulation for cable retraction. Aramid core reinforcement. Max. speed 120m/min with anti-twist protection braid.

Sumflex® DRUM PUR-HF 0,6/1Kv



Extra-flexible cable with PUR sheath for cable retraction systems. Aramid core reinforcement. Max. speed 180m/min with anti-twist protection braid.

Sumflex® DRUM PUR-C-HF 0,6/1Kv



Extra-flexible cable with PUR sheath for cable retraction systems. Copper and tin braided shield, 80% coverage. Aramid core reinforcement. Max. speed 180m/min. with anti-twist protection braid.

Extra flexible cables for cable chain

These cables are designed for applications in cable drums and are suitable for power, control and transmission of data. They are particularly resistant to extreme conditions such as repetitive bending, exposure to chemical products and temperature variation.

Single conductor cable chain cables for power supply

Sumflex® CP 1039 0,6/1Kv



Extra-flexible single-pole cable (class 6) with very robust TPE sheath.

Sumflex® CP 1505 0,6/1Kv



Extra-flexible single-pole cable with PUR sheath for installation in a cable chain (class 6).

Sumflex® CP 1100 0,6/1Kv



Extra flexible single-pole cable with PVC sheath for installation in a cable chain (class 6).

Sumflex® CP 1039C 0,6/1Kv



Extra-flexible single-pole cable (class 6) with very robust TPE sheath. Copper and tin braided shield, 90% coverage.



Sumflex® CP 1505C 0,6/1Kv



Extra-flexible single-pole cable (class 6) with PUR sheath for installation in a cable chain. Copper and tin braided shield, 90% coverage.

Sumflex® CP 1100C 0,6/1Kv



Extra flexible single-pole cable with PVC sheath for installation in a cable chain (class 6). Copper and tin braided shield, 80% coverage.



Power and control cables for cable chain

Sumodrive® 510 0,6/1Kv (LiF9Y11Y)



Extra-flexible cable (class 6) with PUR sheath for installation in a cable chain.



Sumflex® CP 2100 0,6/1Kv (LiFY)



Extra-flexible cable (class 6) with PVC sheath for installation in a cable chain.

Sumodrive® 520 0,6/1Kv (LiF12Y11Y)



Extra-flexible cable (class 6) with PUR sheath and TPE insulation for installation in a cable chain.



Sumodrive® 510C 0,6/1Kv (LiF9YC11Y)



Extra-flexible cable (class 6) with PUR sheath for installation in a cable chain. Braided shield. Copper and tin, 90% coverage.

Sumflex® CP 2100C 0,6/1Kv (LiFYCY)



Extra-flexible cable (class 6) with PVC sheath for installation in a cable chain. Copper and tin braided shield, 90% coverage.

Sumodrive® 520C 0,6/1Kv (LiF12YC11Y)



Extra-flexible cable (class 6) with PUR sheath and TPE insulation for installation in a cable chain. Copper and tin braided shield, 90% coverage.



Other cable constructions

Sumflex® CP 2505 0,6/1Kv (LiF9Y11Y)

Extra-flexible cable (class 6) with PVC sheath for installation in a cable chain.

Sumflex® CP 2505C 0,6/1Kv (LiF9YC11Y)

Extra-flexible cable (class 6) with PVC sheath for installation in a cable chain. Copper and tin braided shield, 90% coverage.

Sumflex® CP 2520 0,6/1Kv (LiF12Y11Y)

Extra-flexible cable (class 6) with PUR sheath and TPE insulation for installation in a cable chain.

Sumflex® CP 2520C 0,6/1Kv (LiF12YC11Y)

Extra-flexible cable (class 6) with PUR sheath and TPE insulation for installation in a cable chain. Copper and tin braided shield, 90% coverage.

Sumodrive® 710C 300V



Extra-flexible cable (class 6) with PUR sheath for installation in a cable chain. Encoder signals. Copper and tin braided shield, 90% coverage.

Sumodrive® 720C 300V



Extra-flexible cable (class 6) with PUR sheath and TPE insulation for installation in a cable chain. Encoder signals. Copper and tin braided shield, 90% coverage.



Sumodrive® 410 300/500V (LiF9Y11Y)



Extra-flexible cable (class 6) with PUR sheath for installation in a cable chain. Data and signal transmission.

Sumodrive® 410C 300/500V (LiF9YC11Y)



Extra-flexible cable (class 6) with PUR sheath for installation in a cable chain. Copper and tin braided shield, 90% coverage. Data and signal transmission.

Sumodrive® 412C 300/500V (LiF9Y11Y TP)



Extra-flexible cable (class 6) with PUR sheath for installation in a cable chain. Copper and tin braided shield, 90% coverage. Data and signal transmission. Braiding in pairs.



Other cable constructions

Sumodrive® 420 300/500V (LiF12Y11Y)

Extra-flexible cable (class 6) with PUR sheath and TPE insulation for installation in a cable chain. Data and signal transmission.

Sumodrive® 420C 300/500V (LiF12YC11Y)

Extra-flexible cable (class 6) with PUR sheath and TPE insulation for installation in a cable chain. Copper and tin braided shield, 90% coverage. Data and signal transmission.

Sumodrive® 422C 300/500V (LiF9Y11Y TP)

Extra-flexible cable (class 6) with PUR sheath and TPE insulation for installation in a cable chain. Copper and tin braided shield, 90% coverage. Data and signal transmission. Braiding in pairs.

Sumflex® CP 2100 Sensor 300V

Extra-flexible cable for cable chains with special PVC insulation and sheath. Sheath in grey or black colour. For the food industry.



Sumflex® Sensor 300V

Flexible cable with special PVC insulation and sheath, resistant to oils. Sheath in grey or black colour. For the food industry.

Cable chain cables for servomotors

Sumodrive® 910C 0,6/1Kv



Extra-flexible cable (class 6) with PUR sheath for installation in a cable chain. Servomotors Copper and tin braided shield, 90% coverage.



Sumodrive® 920C 0,6/1Kv



Extra-flexible cable (class 6) with PUR sheath and TPE insulation for installation in a cable chain. Servomotors Copper and tin braided shield, 90% coverage.



Ultra-flexible cables for industrial robots

Robotic cables are crucial in the industry due to their ability to withstand a high number of cycles of bending, pulling and twisting. They are also resistant to chemical agents and welding splashes.

Sumflex-Mechatronic® shielded 300/500V-0,6/1Kv



Extra-flexible cable (class 6) with very robust TPE sheath. Ultra-flexible shielded cable with PUR sheath.

Sumflex-Mechatronic® 0,6/1Kv



Extra-flexible cable with PUR sheath for installation in a cable chain (class 6). Ultra-flexible cable with PUR sheath.

Cables for signal and data transmission

Cables for data transmission systems in industrial settings, designed for application in instrumentation, control and automation, are available in various standards and with sheath options in PVC or LSHF.

Sumtronic® LiYY 250V



Flexible cable with PVC insulation and sheath.

Sumtronic® PAR CY 250V (VHC4V)



Flexible cable with PVC insulation and sheath. Individual aluminium shield in pairs + copper and tin draining wire and overall shield with polished copper braid, 60% coverage.

Sumtronic® LiYCY 250V



Flexible cable with PVC insulation and sheath. Overall shield with copper and tin braid, 80% coverage.

Sumtronic® Par-Pos 250V (VHOV-F)



Flexible cable with PVC insulation and sheath. Overall shield in pairs and overall shield with aluminium tape + copper and tin draining wire.

Sumtronic® Pos 250V (VOV-F)



Flexible cable with PVC insulation and sheath. Overall shield with aluminium tape + copper and tin draining wire.

Sumsave® Z10Z1 250V



Flexible cable with LSHF insulation and sheath. Overall shield with aluminium tape + copper and tin draining wire.

Sumsave® Z1H0Z1 250V



Flexible cable with LSHF insulation and sheath. Individual shield in pairs and overall shield with aluminium tape + copper and tin draining wire.

Sumsave® Z1C4Z1 250V



Flexible cable with LSHF insulation and sheath. Overall shield with polished copper wire braid, 60% coverage.

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Sumsave® Z1HC4Z1 250V



Flexible cable with LSHF insulation and sheath. Individual shield in pairs with aluminium tape + copper and tin draining wire and overall shield with polished copper wire braid, 60% coverage.

Sumsave® AS RD-H(St) H 250V



Flexible cable with LSHF insulation and sheath. Overall shield with aluminium tape + copper and tin draining wire.

Sumsave® LiHH 250V



Flexible cable with LSHF insulation and sheath.

Sumsave® LiHCH 250V



Flexible cable with LSHF insulation and sheath. Overall shield with copper and tin braid, 80% coverage.

Sumtronic® LiYCY EB 250V



Flexible cable with PVC insulation and sheath. Overall shield with copper and tin braid, 80% coverage. Intrinsic safety.

Sumtronic® LiYCY (TP) 250V



Flexible cable with PVC insulation and sheath. Overall shield with copper and tin braid, 80% coverage. Braided pairs.

Sumtronic® LiYCY (TP) 250V



Flexible cable with LSHF insulation and sheath. Individual shield in pairs and overall shield with aluminium tape + copper and tin draining wire.

Sumflex® Flat cylindrical shielded 24V



Flat cable encased in cylindrical sheath. PVC insulation and sheath. Copper and tin braided shield, 80% coverage.



Other cable constructions

Sumline® Li2Y(St)CY 250V

Flexible cable with polyethylene insulation and PVC sheath. Overall double shield (with aluminium tape + copper and tin braid, 80% coverage).

Sumsave® RHOZ1 250V

Flexible cable with XLPE insulation and LSHF sheath. Individual shield in pairs and overall shield with aluminium tape + copper and tin draining wire.

Sumsave® ROZ1 250V

Flexible cable with XLPE insulation and LSHF sheath. Overall shield with aluminium tape + copper and tin draining wire.

Sumtronic® LiYCY-CY 250V

Flexible cable with PVC insulation and sheath. Individual shield on conductor and overall shield with copper and tin braid, 80% coverage.

Sumtronic® LiYCY UL-CSA 250V

Flexible cable with PVC insulation and sheath. Overall shield with copper and tin braid, 80% coverage.

Sumtronic® LiYCY (TP) UL-CSA 250V

Flexible cable with PVC insulation and sheath. Overall shield with copper and tin braid, 80% coverage. Braided pairs.

Sumsave® LiHCH (TP) 250V

Flexible cable with LSHF insulation and sheath. Overall shield with copper and tin braid, 80% coverage. Braided pairs.



Cables for sensors and actuators

Suitable for cabling in industrial automation applications. Highly flexible cables, coded by specific colours, with a highly robust PVC or PUR sheath. Available with UL & CSA certification and with ECOLAB certification for the food industry. Ideal for assembly with these types of connectors: M8, M12, 1/2", 7/8".

Sumflex® Fortis sensor 300V



Flexible cable with LSHF insulation and TPE sheath. Sheath in grey or black colour. For the food industry.

Sumflex® CP 2505 Sensor 300V



Extra-flexible cable for cable chains with LSHF insulation LSHF and PUR sheath. Sheath in grey, black or yellow. For the food industry.

Sumodrive® 410 Sensor 300V



Extra-flexible cable for cable chains with LSHF insulation LSHF and PUR sheath. Sheath in grey, black or yellow. For the food industry.



Cables for industrial communication

Suitable for transmitting data between different communication equipment sets in an industrial plant. For each type of communication there is a suitable cable to be able to properly control the functions at field level. Available for fixed, flexible, cable chain and industrial robot installation.

AS-I cables

Sumflex® AS-I BUS TPE 300V



AS-Interface communication cable for fixed or mobile installation. Special thermoplastic polymer insulation and TPE sheath.

Sumflex® AS-I BUS EPDM 300V



AS-Interface communication cable for fixed or mobile installation. Special thermoplastic polymer insulation and EPDM rubber sheath. Black or yellow sheath.

Sumflex® AS-I BUS PVC 300V



AS-Interface communication cable for fixed or mobile installation. Special thermoplastic polymer insulation and PVC rubber sheath. Black or yellow sheath.

Can Bus cables

Sumline® Can Bus 250V



Semi-rigid cable for Can Open communication. Special thermoplastic polymer insulation and PVC sheath. Copper and tin braided shield, 85% coverage.

Sumflex® CP Can Bus 250V



Extra flexible cable for Can Open communication. Suitable for cable chain. LSHF insulation and PUR sheath. Copper and tin braided shield, 85% coverage.

Sumline® Can Bus SY 250V



Semi-rigid cable for Can Open communication. Fixed installation. Special thermoplastic polymer insulation and PVC sheath. Copper and tin braided shield, 85% coverage. Galvanised steel wire braided armouring, 80% coverage.

Other cable constructions

Sumsave® Can Bus FRLSHF 250V

Semi-rigid cable for Can Open communication. Fixed installation. Special thermoplastic polymer insulation and LSHF sheath. Copper and tin braided shield, 85% coverage.

Sumsave® Can Bus SWA 250V

Semi-rigid cable for Can Open communication. Fixed installation. Special thermoplastic polymer insulation and PVC sheath. Copper and tin braided shield, 85% coverage. Galvanised steel wire core armouring, 80% coverage.



Cables transforming industries: Quick guide

CC-Link cables

Sumflex® CP CC-Link 250V



Flexible cable for cable chains. Special thermoplastic polymer insulation and PUR sheath. Individual aluminium shield + copper and tin draining wire and overall shield with copper and tin braid, 80% coverage.

Sumsave® CC-Link LSZH 250V



Semi-rigid cable for fixed installation. Special thermoplastic polymer insulation and LSZH sheath. Individual aluminium shield + copper and tin draining wire and overall shield with copper and tin braid, 80% coverage.

Sumsave® CC-Link IE LSZH 250V



Semi-rigid cable for fixed installation. Special thermoplastic polymer insulation and LSZH sheath. Overall copper and tin braided shield, 80% coverage. Ethernet communication.

Other cable constructions

Sumflex® CC-Link 250V

Semi-rigid cable for fixed installation. Special thermoplastic polymer insulation and PVC sheath. Individual aluminium shield + copper and tin draining wire and overall copper and tin braided shield, 80% coverage.

Sumflex® CC-Link IE 250V

Semi-rigid cable for fixed installation. Special thermoplastic polymer insulation and PVC sheath. Overall copper and tin braided shield, 80% coverage. Ethernet communication.

DeviceNet cables

Sumflex® DeviceNet CP Thin 00V



Extra-flexible cables for cable chains. Cellular polyethylene insulation + Skin and PUR sheath. Individual aluminium shield + copper and tin draining wire and overall copper and tin braided shield, 80% coverage. Sheath in black or violet.

Sumsave® DeviceNet LSZH Thin 00V



Flexible cable for fixed installation. Cellular polyethylene insulation + Skin and LSZH sheath. Individual aluminium shield + copper and tin draining wire and overall copper and tin braided shield, 80% coverage. Sheath in black or violet.

Sumflex® DeviceNet PVC Thin SY 300V



Flexible cable for fixed installation. Cellular polyethylene insulation + Skin and PVC sheath. Individual aluminium shield + copper and tin draining wire and overall copper and tin braided shield, 80% coverage. Steel wire braided armour. Sheath in black.

Sumline® DeviceNet PVC Thin SWA 300V



Semi-rigid cable for fixed installation. Cellular polyethylene insulation + Skin and PVC sheath. Individual aluminium shield + copper and tin draining wire and overall copper and tin braided shield, 80% coverage. Steel wire core armour. Sheath in black.

Sumflex® DeviceNet PVC Thin 300V



Flexible cable for fixed installation. Cellular polyethylene insulation + Skin and PVC sheath. Individual aluminium shield + copper and tin draining wire and overall copper and tin braided shield, 80% coverage. Sheath in violet.

Sumflex® DeviceNet PVC Thick 300V



Flexible cable for fixed installation. Cellular polyethylene insulation + Skin and PVC sheath. Individual aluminium shield + copper and tin draining wire and overall copper and tin braided shield, 80% coverage. Sheath in violet.



Other cable constructions

Sumflex® DeviceNet CP Thick 300V

Extra-flexible cables for cable chains. Cellular polyethylene insulation + Skin and PUR sheath. Individual aluminium shield + copper and tin draining wire and overall copper and tin braided shield, 80% coverage. Sheath in black or violet.

Sumflex® DeviceNet LSZH Thick 300V

Flexible cable for fixed installation. Cellular polyethylene insulation + Skin and LSZH sheath. Individual aluminium shield + copper and tin draining wire and overall copper and tin braided shield, 80% coverage. Sheath in black or violet.

Sumflex® DeviceNet PVC Thick SY 300V

Flexible cable for fixed installation. Cellular polyethylene insulation + Skin and PVC sheath. Individual aluminium shield + copper and tin draining wire and overall copper and tin braided shield, 80% coverage. Steel wire braided armour. Sheath in black.

Sumflex® DeviceNet PVC Thick SY 300V

Semi-rigid cable for fixed installation. Cellular polyethylene insulation + Skin and PVC sheath. Individual aluminium shield + copper and tin draining wire and overall copper and tin braided shield, 80% coverage. Steel wire core armour. Sheath in black.

Industrial Ethernet cables

Sumflex-Mechatronic® 4.0 EIP-R5 80V



Extra-flexible cable (twisting-pulling) for communication in robots. Special thermoplastic polymer insulation and PUR sheath. Cat. 5e. Overall shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage.

Sumflex-Mechatronic® 4.0 SEP-R5 100V



Extra-flexible cable (twisting-pulling) for communication in robots. Special thermoplastic polymer insulation and PUR sheath. Overall shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage.

Sumflex® C.P 4.0 EIP-C6 80V



Extra-flexible cables for cable chain communication. Cat.6 Special thermoplastic polymer insulation and PUR sheath. Overall shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage.

Sumsave® 4.0 EIH-F6 80V



Flexible cable for Ethernet communication, type A. Cat.6. Special thermoplastic polymer insulation and LSHF sheath. Overall shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage.

Sumsave® 4.0 EIH-F5-SWA 80V



Rigid cable for Ethernet communication, type A. Cat. 5e. Special thermoplastic polymer insulation and LSHF sheath. Overall shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage. Steel wire core armour.

Sumline® 4.0 EIV-F5-SWA 80V



Rigid cable for Ethernet communication, type A. Cat. 5e. Special thermoplastic polymer insulation and PVC sheath. Overall shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage. Steel wire core armour.



Other cable constructions

Sumflex-Mechatronic® 4.0 EIP-R6 80V

Extra-flexible cable (twisting-pulling) for communication in robots. Special thermoplastic polymer insulation and PUR sheath. Cat. 6. Overall shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage.

Sumflex® 4.0 EIH-S6 80V

Flexible cable for Ethernet communication, type B, Cat.6. Special thermoplastic polymer insulation and LSHF sheath. Overall shield with aluminium tape + copper and tin draining wire. + copper and tin wire braid, 85% coverage.

Sumline® 4.0 EIV-S6 80V

Semi-rigid cable for Ethernet communication, type B, Cat.6. Special thermoplastic polymer insulation and PVC sheath. Overall shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage.

Sumline® 4.0 EIV-F6 80V

Semi-rigid cable for Ethernet communication, type A, Cat.6. Special thermoplastic polymer insulation and PVC sheath. Overall shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage.

Sumflex® C.P 4.0 EIP-C5 80V

Extra-flexible cables for cable chain communication. Cat. 5e. Special thermoplastic polymer insulation and PUR sheath. Overall shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage.

Sumsave® 4.0 EIH-S5 80V

Flexible cable for Ethernet communication, type B, Cat. 5e. Special thermoplastic polymer insulation and LSHF sheath. Overall shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage.

Sumline® 4.0 EIV-S5 80V

Semi-rigid cable for Ethernet communication, type B, Cat. 5e. Special thermoplastic polymer insulation and PVC sheath. Overall shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage.

Sumsave® 4.0 EIH-F5 80V

Flexible cable for Ethernet communication, type A. Cat. 5e. Special thermoplastic polymer insulation and LSHF sheath. Overall shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage.

Cables transforming industries: Quick guide

Foundation Fieldbus cables

Sumsave® Foundation field Bus LSZH 250V



Flexible cable for fixed installation. Special thermoplastic polymer insulation and LSZH sheath, yellow colour. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage.

Sumflex® Foundation field Bus 250V



Flexible cable for fixed installation. Special thermoplastic polymer insulation and PVC sheath, yellow colour. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage.

Profibus DP cables

Sumflex® CP Profibus DP 100V



Extra-flexible cables for type C installation in cable chains. Cellular polyethylene insulation + Skin and PUR sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 60% coverage.

Sumline® Profibus DP Eco 100V



Rigid cable for type A fixed installation, cellular polyethylene insulation + Skin and PVC sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 60% coverage. Sheath in violet.

Sumline® Profibus DP Eco SWA 100V



Rigid cable for type A installation, cellular polyethylene insulation + Skin and PVC sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 60% coverage. Steel wire core armour.

Sumsave® Profibus DP Eco LSZH Flex 100V



Flexible cable for type B installation. Cellular polyethylene insulation + Skin and PLSHF sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 60% coverage. Sheath in violet.

Sumsave® Profibus DP Fast Connect LSZH 100V



Flexible cable for type A installation. Cellular polyethylene insulation + Skin and LSZH sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 60% coverage. Sheath in violet.

Sumsave® Profibus DP Fast Connect LSZH SWA 100V



Rigid cable for type A installation. Cellular polyethylene insulation + Skin and LSZH sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 60% coverage. Steel wire core armour.

Sumline® Profibus DP Eco SY 100V



Rigid cable for type A installation, cellular polyethylene insulation + Skin and PVC sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 60% coverage. Steel wire braided armour.



Other cable constructions

Sumsave® Profibus DP Eco Flex 100V

Flexible cable for type B installation. Cellular polyethylene insulation + Skin and LSZH sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 60% coverage. Sheath in violet.

Sumflex® Profibus DP Festoon 100V

Extra-flexible cable for type C installation in cable chains. Cellular polyethylene insulation + Skin and PUR sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 60% coverage.

Sumline® Profibus DP Fast Connect 100V

Flexible cable for type A installation. Cellular polyethylene insulation + Skin and PVC sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 60% coverage. Sheath in violet.

Sumline® Profibus DP Fast Connect SWA 100V

Rigid cable for type A installation, cellular polyethylene insulation + Skin and PVC sheath. Aluminium shield + copper and tin draining wire + copper and tin braid, 60% coverage. Steel wire core armour.

Sumsave® Profibus DP Eco LSZH 100V

Rigid cable for type A fixed installation, cellular polyethylene insulation + Skin and LSZH sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 60% coverage. Sheath in violet.

Sumline® Profibus DP Fast connect SY 100V

Rigid cable for type A installation. Cellular polyethylene cellular + Skin and PVC sheath. Aluminium shield + copper and tin draining wire + copper and tin braid, 60% coverage. Steel wire braided armour.



Profibus PA cables

Sumline® Profibus PA 100V



Rigid cable for type A fixed installation, cellular polyethylene insulation + Skin and PVC sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 90% coverage. Sheath in black or blue.

Sumline® Profibus PA SY 100V



Rigid cable for type A fixed installation. Cellular polyethylene cellular + Skin and PVC sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 90% coverage. Steel wire braided armour Sheath in black or blue.

Sumline® Profibus PA SWA 100V



Rigid cable for type A fixed installation, cellular polyethylene insulation + Skin and PVC sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 90% coverage. Steel wire core armour. Sheath in black or blue.



Other cable constructions

Sumsave® Profibus PA LSZH 100V

Rigid cable for type A fixed installation. Cellular polyethylene insulation + Skin and LSHF sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 90% coverage. Sheath in black or blue

Sumsave® Profibus PA LSZH SWA 100V

Rigid cable for type A fixed installation. Cellular polyethylene insulation + Skin and LSHF sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 90% coverage. Steel wire core armour. Sheath in black or blue



Profinet cables

Sumflex-Mechatronic® 4.0 PNP-R5 80V



Extra-flexible cable for installation in robots. Cat. 5e Special thermoplastic polymer insulation and PUR sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage. Green sheath.

Sumsave® 4.0 PNH-S5 80V



Flexible cable for type B installation, Cat. 5e. Special thermoplastic polymer insulation and LSHF sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage. Green sheath.

Sumflex® CP 4.0 PNP-C5 80V



Flexible cable for type C installation for cable chains. Cat.5e. Special thermoplastic polymer insulation and PUR sheath. Aluminium shield + copper and tin draining wire + copper and tin wire braid, 85% coverage. Green sheath.

Sumsave® 4.0 PNH-F5 SWA 80V



Rigid cable for type A fixed installation, cellular polyethylene insulation + Skin and LSHF sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage. Steel wire core armour. Sheath in black.



Other cable constructions

Sumline® 4.0 PNV-S5 80V

Semi-rigid cable for type B installation, Cat. 5e. Special thermoplastic polymer insulation and PVC sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage. Green sheath.

Sumsave® 4.0 PNH-S5 80V

Flexible cable for type A installation. Cat. 5e Special thermoplastic polymer insulation and LSHF sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage. Green sheath.

Sumline® 4.0 PNV-F5 80V

Semi-rigid cable for type A installation, Cat. 5e. Special thermoplastic polymer insulation and PVC sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage. Green sheath.

Sumline® 4.0 PNV-F5 SWA 80V

Semi-rigid cable for type A installation Cat. 5e Special thermoplastic polymer insulation and PVC sheath. Shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 85% coverage. Steel wire core armour. Sheath in black.



Cables transforming industries: Quick guide

RS-485 / RS-232 cables

Sumlene® Li2YCY TP 100V



Flexible cable for fixed installation. Special polyethylene insulation and PVC sheath. Overall shield with copper and tin wire braid, 80% coverage.

Sumlene® Li2YCYv TP 100V



Flexible cable for fixed installation. Special polyethylene insulation, PVC seating and sheath. Overall shield with copper and tin wire braid, 80% coverage. UV resistant.

Sumlene® POS-CH FRNCLSZH (Li2Y(St)CH) 100V



Flexible cable for fixed installation. Special polyethylene insulation and LSHF sheath. Overall shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 80% coverage.

Sumlene® POS-CH FRNCLSZH SWA 100V



Flexible cable for fixed installation. Special polyethylene insulation and LSHF sheath. Overall shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 80% coverage. Steel wire core armour.

Sumlene® POS-CY (Li2y(St)CY) 100V



Flexible cable for fixed installation. Special polyethylene insulation and PVC sheath. Overall shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 80% coverage.

Sumlene® POS-CY SWA 100V

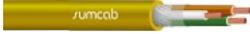


Flexible cable for fixed installation. Special polyethylene insulation and PVC sheath. Overall shield with aluminium tape + copper and tin draining wire + copper and tin wire braid, 80% coverage. Steel wire core armour.



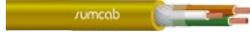
Safety Bus cables

Sumsave® Safety Bus LSZH 250V



Flexible cable for fixed installation. Cellular polyethylene insulation + Skin and LSHF sheath. Overall shield with copper and tin wire braid, 80% coverage. Sheath in yellow.

Sumflex® Safety Bus PVC 250V



Flexible cable for fixed installation. Cellular polyethylene insulation + Skin and PVC sheath. Overall shield with copper and tin wire braid, 80% coverage. Sheath in yellow.

Industrial USB cables

Sumflex® CP Universal Serial Bus (USB) 30V PUR



Extra-flexible cable for USB.2.0 and USB.3.0 communication for cable chains. Special thermoplastic polymer insulation and PUR sheath. Individual shield in pairs with aluminium tape + copper and tin draining wire and overall shield with aluminium tape + copper and tin draining wire and copper and tin braided shield, 90% coverage.

Sumflex® CP Universal Serial Bus (USB) 30V PVC



Flexible cable for USB.2.0 and USB.3.0 communication for fixed installation. Special polyethylene polymer insulation and PVC sheath. Individual shield in pairs with aluminium tape + copper and tin draining wire and overall shield with aluminium tape + copper and tin draining wire and copper and tin braided shield, 90% coverage.

Cables for communications and telecommunications

Cables for transmitting voice, data and signals. Available with PVC and PE sheath (for outdoor installation) or with LSHF sheath (with excellent specifications in the event of fire. such as no flame propagation, LSHF, low smoke opacity, corrosiveness and toxicity).

Data cables and structured wiring

Sumline® UTP Cat.5e M (U/UTP)



Rigid cable for data in LAN networks with PE Foam Skin insulation and PVC sheath. Armour. Steel wire core. It supports frequencies up to 250 MHz. Sheath in black.



Sumline® UTP Cat.5e SY (U/UTP)



Rigid cable for data in LAN networks with PE Foam Skin insulation and PVC sheath. Armour. Steel wire braid. It supports frequencies up to 250 MHz. Sheath in black.



Sumline® FTP Cat.5e Exterior (F/UTP)



Flexible cable for data in LAN networks with PE Foam Skin insulation and PE sheath. Shield with aluminium tape + copper and tin draining wire. It supports frequencies up to 250 MHz. Sheath in grey.

Sumline® FTP Cat.5e M (F/UTP)



Rigid cable for data in LAN networks with PE Foam Skin insulation and PVC sheath. Armour. Steel wire core. It supports frequencies up to 250 MHz. Sheath in black. Shield with aluminium tape + copper and tin draining wire.



Sumline® FTP Cat.5e SY (F/UTP)



Rigid cable for data in LAN networks with PE Foam Skin insulation and PVC sheath. Armour. Steel wire braid. It supports frequencies up to 250 MHz. Sheath in black. Shield with aluminium tape + copper and tin draining wire.



Sumsave® FTP Cat.5e LSZH (F/UTP)



Rigid cable for data in LAN networks with PE Foam Skin insulation and LSHF sheath. Shield with aluminium tape + copper and tin draining wire. It supports frequencies up to 250 MHz. Sheath in grey.

Sumsave® UTP Cat.6 LSZH (U/UTP)



Rigid cable for data in LAN networks with PE Foam Skin insulation and LSHF sheath. It supports frequencies up to 400 MHz. Sheath in grey.

Sumline® UTP Cat.6 Exterior (U/UTP)



Rigid cable for data in LAN networks with PE Foam Skin insulation and PE sheath. It supports frequencies up to 400 MHz. Sheath in black.

Sumflex® UTP Cat.6 flex (U/UTP)



Flexible cable for data in LAN networks with PE Foam Skin insulation and PVC sheath. For the making of flexible hoses. It supports frequencies up to 400 MHz. Sheath in grey.

Sumsave® FTP Cat.6 LSZH (F/UTP)



Rigid cable for data in LAN networks with PE Foam Skin insulation and PE sheath. It supports frequencies up to 250 MHz. Sheath in black.

Sumsave® FTP Cat.6 flex LSZH (F/UTP)



Flexible cable for data in LAN networks with PE Foam Skin insulation and PVC sheath. For the making of flexible hoses. It supports frequencies up to 250 MHz. Sheath in grey.

Sumsave® S/FTP Cat.7 LSZH (S/FTP)



Flexible cable for data in LAN networks with PE Foam Skin insulation and LSHF sheath. For the making of flexible hoses. It supports frequencies up to 250 MHz. Sheath in grey.

Other cable constructions

Sumsave® UTP Cat.5e LSZH (U/UTP)

Rigid cable for data in LAN networks with PE Foam Skin insulation and LSHF sheath. It supports frequencies up to 250 MHz. Sheath in grey.

Sumline® UTP Cat.5e Exterior (U/UTP)

Cable rígido para datos en red LAN con aislamiento PE Foam Skin y cubierta PE. Soporta frecuencias de hasta 250Mhz. Cubierta Black.

Sumflex® UTP Cat.5e flex (U/UTP)

Cable flexible para datos en red LAN con aislamiento PE Foam Skin y cubierta PVC. Confección latiguillos. Soporta frecuencias de hasta 250Mhz. Cubierta Grey.

Sumsave® UTP Cat.5e flex LSZH (U/UTP)

Cable flexible para datos en red LAN con aislamiento PE Foam Skin y cubierta LSHF. Confección latiguillos. Soporta frecuencias de hasta 250Mhz. Cubierta Grey.

Cables transforming industries: Quick guide

Sumline® UTP Cat.5e (U/UTP)

Rigid cable for data in LAN networks with PE Foam Skin insulation and PVC sheath. It supports frequencies up to 250 MHz. Sheath in grey.

Sumflex® FTP Cat.5e flex (F/UTP)

Flexible cable for data in LAN networks with PE Foam Skin insulation and PVC sheath. Aluminium shield + copper and tin draining wire. For the making of flexible hoses. It supports frequencies up to 250 MHz. Sheath in grey.

Sumsave® FTP Cat.5e flex LSZH (F/UTP)

Flexible cable for data in LAN networks with PE Foam Skin insulation and LSZH sheath. Aluminium shield + copper and tin draining wire. For the making of flexible hoses. It supports frequencies up to 250 MHz. Sheath in grey.

Sumsave® UTP Cat.6 flex LSZH (U/UTP)

Flexible cable for data in LAN networks with PE Foam Skin insulation and LSZH sheath. For the making of flexible hoses. It supports frequencies up to 400 Mhz. Sheath in grey.

Sumline® UTP Cat.6 (U/UTP)

Rigid cable for data in LAN networks with PE Foam Skin insulation and PVC sheath. It supports frequencies up to 400 MHz. Sheath in grey.

Sumflex® FTP Cat.6 Flex (F/UTP)

Flexible cable for data in LAN networks with PE Foam Skin insulation and PVC sheath. Shield with aluminium tape + copper and tin draining wire. It supports frequencies up to 400 MHz. Sheath in grey.

Sumline® FTP Cat.5e (F/UTP)

Rigid cable for data in LAN networks with PE Foam Skin insulation and PVC sheath. Shield with aluminium tape + copper and tin draining wire. It supports frequencies up to 150 MHz. Sheath in grey.

KNX/EIB Home Automation Cables

Sumflex® EIB 350V



Rigid cable for BUS KNX/ EIB systems for home automation systems. Polyethylene type HDPE insulation and PVC sheath. Aluminium overall shield + copper and tin draining wire.

Sumflex® EIB LSZH 350V



Rigid cable for BUS KNX/ EIB systems for home automation systems. Polyethylene type HDPE insulation and LSZH sheath. Aluminium overall shield + copper and tin draining wire.

Telephone cables for outdoor installation

Sumline® EAP



Rigid telephone cable for subscribers or connecting cables between exchanges. Polyethylene type HDPE insulation and polyethylene sheath. Shield with aluminium tape covered with polymer, longitudinal, overlapped.

Sumline® EAP-SP (Anti-rodents)



Rigid telephone cable for subscribers or connecting cables between exchanges. Polyethylene type HDPE insulation and polyethylene sheath. Shield with aluminium tape covered with polymer, longitudinal, overlapped. Corrugated steel strap armour.

Other cable constructions

Sumsave® EAT

Rigid telephone cable for subscribers or connecting cables between exchanges. Polyethylene type HDPE insulation and LSZH sheath. Shield with aluminium tape covered with polymer, longitudinal and overlapped.

Sumsave® EAT-ST (Anti-rodents)

Rigid telephone cable for subscribers or connecting cables between exchanges. Polyethylene type HDPE insulation and LSZH sheath. Shield with aluminium tape covered with polymer, longitudinal and overlapped. Corrugated steel strap armour.

Sumline® EAP ATAR

Rigid telephone cable for subscribers or connecting cables between exchanges. Polyethylene type HDPE insulation and polyethylene sheath with anti-rodent additive. Shield with aluminium tape covered with polymer, longitudinal and overlapped.

Telephone cables for indoor installation

Sumsave® ICT LSZH 300V



Rigid telephone cable for indoor intercoms. Polyethylene type HDPE insulation and LSHF sheath. Overall shield with aluminium tape + copper and tin draining wire.

Sumsave® J-H(ST)H 300V



Rigid cable for indoor telephone installations. LSHF insulation and sheath Overall shield with aluminium tape + copper and tin draining wire.

Sumline® ICT 300V



Rigid telephone cable for indoor intercoms. Polyethylene type HDPE insulation and PVC sheath. Overall shield with aluminium tape + copper and draining wire

Sumline® J-Y(ST)Y 300V



Rigid cable for indoor telephone installations. PVC insulation and sheath. Overall shield with aluminium tape + copper and tin draining wire.

Cables for security systems

Suitable for the interconnection of fire protection systems, emergency services (megaphone and alarm, surveillance systems and intruder systems (siren, infrared barrier...)). PVC and LSHF sheath (with excellent specifications in the event of fire. Such as no flame propagation, LSHF, low smoke opacity, corrosiveness and toxicity).

Cables for alarms and action against intruders

Sumsave® Braided with sleeve LSZH 30V



Flexible cable for connection of public address and safety devices. LSHF insulation and sheath.

Sumflex® PA-LO (halogen-free) 30V



Flexible two-conductor cable in parallel formation for the interconnection of loudspeakers. PVC insulation and transparent sheath.

Sumsave® Braided with sleeve LSZH 30V



Flexible cable without sleeve for connection of public address and safety devices. LSHF insulation.

Sumsave®AS Against intruders shielded LSZH 30V



Flexible signal cable for alarm systems. LSHF insulation and sheath. Overall shield with aluminium tape + copper and tin draining wire.

Sumsave®AS Alarm/Alt. With sleeve LSZH 30V



Flexible multi-conductor signal cable for alarm systems. LSHF insulation and sheath. Sheath in white colour.

Sumsave®AS Alarm/Alt. With shielded sleeve LSZH 30V



Flexible multi-conductor signal cable for alarm systems. LSHF insulation and sheath. Sheath in white colour. Overall shield with aluminium tape + copper and tin draining wire.

Sumflex® Against intruders 30V



Flexible signal cable for alarm systems. PVC insulation and sheath. Sheath in white colour.

Other cable constructions

Sumflex® Braided without sleeve 30V

Flexible cable for fire-fighting systems. XLPE insulation and LSHF sheath. Shield with aluminium tape + copper and tin draining wire. Red sheath, indoors: red/black.

Sumflex® Against intruders shielded 30V

Flexible cable for fire-fighting systems. Silicone insulation, LSHF sheath. Shield with aluminium tape + copper and tin draining wire. Red sheath, indoors: red/black. Fire-resistant cable.

Sumflex® Alarm/Alt. With sleeve 30V

Rigid cable with LSHF insulation and sheath. Overall shield with aluminium tape + copper and tin draining wire. Red sheath.

Sumflex® Alarm/Alt. With sleeve shielded 30V

Rigid cable with silicone insulation and LSHF sheath. Overall shield with aluminium tape + copper and tin draining wire. Red sheath. Fire resistant.

Cables for fire protection systems

Sumsave® AS Data Controlfire 300/500V (ROZ1-K)



Flexible cable for fire-fighting systems. XLPE insulation and LSHF sheath. Shield with aluminium tape + copper and tin draining wire. Red sheath, indoors: red/black.

Sumsave® AS+ Data Segurfire 300/500V (SOZ1-K)



Flexible cable for fire-fighting systems. Silicone insulation, LSHF sheath. Shield with aluminium tape + copper and tin draining wire. Red sheath, indoors: red/black. Fire-resistant cable.

Sumline® AS BMK J-H(ST)H...BD 300V



Rigid cable with LSHF insulation and sheath. Overall shield with aluminium tape + copper and tin draining wire. Red sheath.

Sumline® AS+ BMK JE-H(ST)H...BD FE180 300V



Rigid cable with silicone insulation and LSHF sheath. Overall shield with aluminium tape + copper and tin draining wire. Red sheath. Fire resistant.

Other cable constructions

Sumline® BMK J-Y(ST)Y... LG 300V

Rigid cable with PVC insulation and LSHF sheath. Overall shield with aluminium tape + copper and tin draining wire. Red sheath.

Coaxiales cables

Coaxial cables are ideal for transmitting high frequency signals, allowing for high speeds of data transmission over long distances. It is generally used for applications such as cable television, radio stations, closed circuit television (CCTV), video equipment, broadband and Ethernet applications. Generally, they have characteristic impedance of 50, 75 or 93 Ω .

Sumline® RG6 U



75 ohm coaxial cable used for the distribution of television signals from private and public networks. Antenna cable for digital terrestrial television systems and satellite channels.

Sumline® RG11 A/U



75 Ohm analogue video cable. Used for typical video applications, equipment, rack, installation, etc.

Sumline® RG11 A/U SY



75 Ohm analogue video cable. It is used for typical video, hardware, rack, installation, etc. applications. Armoured with steel braid.

Sumline® RG58 B/U



50 Ohm radio frequency analogue cable. It is used for typical applications of equipment, rack, installation, etc.

Sumline® RG59 B/U



75 Ohm analogue video cable. Used for typical video applications, equipment, rack, installation, etc.

Sumline® RG59 B/U M FRLSZH



75 Ohm analogue video cable. It is used for video, hardware, rack, installation, etc. applications. Armoured with steel core and LSHF.

Sumline® RG62



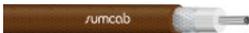
93 Ohm coaxial cable for computer networks, communication.

Sumline® RG174 U



Low loss 50 ohm coaxial cable. Designed for connecting antennas in wireless systems.

Sumline® RG178 B/U



50 ohm coaxial cable with special perfluoroalkoxide (FEP) sheath for very high temperatures.

Sumline® RG214 U



Low loss 50 ohm coaxial cable for medical applications, radio frequencies, military applications, antennas (even outdoors).

Other cable constructions

Sumline® RG58 A/U M

50 Ohm radio frequency analogue cable. It is used for typical applications of equipment, rack, installation, etc. LSHF.

Sumline® RG59 B/U Exterior

75 Ohm analogue video cable. Reinforced sheath for outdoor installation.

Sumline® RG213 U

Low loss 50 ohm coaxial cable for medical applications, radio frequencies, military applications, antennas (even outdoors).

High temperature cables

Cables with excellent thermal properties, designed for use in high-temperature environments (up to +260 °C and peaks of 350 °C) and also in very low temperatures (up to -90 °C).

Sumtherm® 105



Flexible control and command cable, with PVC sheath for service temperatures from -40 °C to + 105 °C in fixed installation

Sumsil® 180



Flexible short connection cable, silicone for service temperature from -50 °C to +180 °C in fixed installation.

Sumsil® M 180



Flexible control and command cable, silicone for service temperatures from -50 °C to + 180 °C in fixed installation.

Sumsil® MC 180



Flexible control and command cable, with copper braided shield, for service temperatures from -50°C to +180°C in fixed installation.

Sumsil® MGLP 200



Flexible short connection cable, silicone, fibreglass and mechanical protection (metal mesh) for service temperatures from -50 °C to +200 °C in fixed installation.

Sumsil® GL 200



Flexible short connection cable, silicone and fibreglass for service temperature from -50 °C to +200 °C in fixed installation.

Sumtherm® 350 (Nicom)



Flexible control and command cable, with Nickel conductor, Mica sheath and fibreglass for service temperature from -190 °C to + 350 °C in fixed installation.

Other cable constructions

Sumtherm® 145

Flexible short connection cable, special cross-linked LSHF for service temperatures from -55 °C to + 125 °C in fixed installation and temporarily up to 145 °C.

Sumsil® 180 SiFF

Extra-flexible short connection cable, silicone for service temperature from -50 °C to + 180 °C in fixed installation.

Sumtherm® 205

Flexible control and command cable, Teflon type FEP for service temperature from -100 °C to + 205 °C in fixed installation.

Sumtherm® 260

Flexible control and command cable, Teflon type PTFE for service temperature from -190 °C to + 260 °C in fixed installation and temporarily up to 300°C.

Cables for temperature control and regulation

Thermocouple cables are designed for the connection of temperature sensors, maintaining precision in the thermocouple measurement systems. These cables, which must be made of the same alloy as the thermocouple, are used to connect the sensor to the measurement device and can operate at very high service temperatures. There are several types of thermocouple cables, each with a specific combination of metallic alloy that define the type of thermocouple.

Sumline® TC FV-FV-MM



Fiberglass + wire mesh cable for thermocouples.

Sumline® TC SIL-FV



Silicone + fiberglass cable for thermocouples.

Sumline® TC SIL



Silicone cable for thermocouples.

Sumline® TC PVC-MM



Cable for thermocouples with PVC sheath and wire mesh.

Sumline® TC PVC-POS



Thermocouple cable with overall shield with aluminium tape and PVC sheath.

Sumline® TC PVC



Thermocouple cable with PVC sheath.

Sumline® TC PVC-CY



Thermocouple cable with overall shield with copper braid and PVC sheath.

Sumline® Probe PT-100



Two-conductor cable for PT100-type temperature probes, PVC insulation and sheath.

Sumtherm® Sonda PT-100



Two-conductor cable for PT100-type temperature probes, silicone insulation and sheath.

Sumsave® TC Z1HOZ1MZ1



Thermocouple cable with LSHF insulation and sheath, shielded individually and as a whole with aluminium tape and armoured with steel wire core.

Sumsave® TC Z1OZ1MZ1



Thermocouple cable with LSHF insulation and sheath, overall shield with aluminium tape and armoured with steel wire core.

Sumtherm® Probe PT-100



Two-conductor cable for PT100-type temperature probes, silicone insulation and sheath.

Sumsave® TC Z1HOZ1MZ1



Thermocouple cable with LSHF insulation and sheath, shielded individually and as a whole with aluminium tape and armoured with steel wire core.

Sumsave® TC Z1OZ1MZ1



Thermocouple cable with LSHF insulation and sheath, overall shield with aluminium tape and armoured with steel wire core.

Sumline® RX-2X(St) YSWAY-FI PiMF



Thermocouple cable with XLPE insulation and PVC sheath, shielded individually and as a whole with aluminium tape and armoured with steel wire core.

Sumline® RX-2X(St) YSWAY-FI



Thermocouple cable with XLPE insulation and PVC sheath, overall shield with aluminium tape and armoured with steel core.

Sumline® TC VHOVMV



Thermocouple cable with PVC insulation and sheath, shielded individually and as a whole with aluminium tape and armoured with steel wire core.

Sumline® TC VOVMV



Thermocouple cable with PVC insulation and sheath, overall shield with aluminium tape and armoured with steel wire core.

Sumsave® TC Z1OZ1MZ1



Thermocouple cable with overall shield with aluminium tape and armoured with steel wire core.

Cables for marine applications

Power, communication, signal and data cables, especially suitable for fixed installation on ships and boats, on offshore platforms and special cables for underwater applications.

Marine cables



Marineflex® PZ1 (M2XH) 0.6/1Kv



Flexible marine cable for output, power and control in electrical installations inside and the deck of ships. XLPE insulation and LSHF SHF1 sheath. Sheath in black.

Marineflex® PAZ1 (M2XCH) 0.6/1Kv



Flexible cable for output, power and control inside and the deck of ships. XLPE insulation and LSHF SHF1 sheath. Overall shield with polished copper braid. Sheath in black.

Marineflex® AS+ M-PZ1 0.6/1Kv



Flexible cable for output, power and control inside and the deck of ships. Insulation with Mica tape + XLPE and LSHF SHF1 sheath. Sheath in black.

Marineflex® AS+ M-PAZ1 0.6/1Kv



Flexible cable for output, power and control inside and the deck of ships. Insulation with Mica tape + XLPE and LSHF SHF1 sheath. Sheath in black.

Marine-lcom® IZ1 150/250V (300V)



Flexible instrumentation and control cable. XLPE insulation and LSHF SHF1 sheath. As multi-conductor o in pairs. Sheath colour in orange, grey or black.

Marine-lcom® IHZ1 150/250V (300V)



Flexible instrumentation and control cable. XLPE insulation and LSHF SHF1 sheath. As multi-conductor o in pairs. Sheath colour in orange, grey or black. Shielded in pairs with aluminium tape + copper and tin draining wire.

Marine-lcom® IHAZ1 (FM2XCCH) 150/250V (300V)



Flexible instrumentation and control cable. XLPE insulation and LSHF SHF1 sheath. As multi-conductor o in pairs. Sheath colour in orange, grey or black. Shielded in pairs with aluminium tape + copper and tin draining wire, overall shield with polished copper braid.

Other cable constructions

MarineLine® YZp 0.6/1Kv

Semi-rigid output, power and control cable inside and on the deck of ships. XLPE insulation and LSHF SHF1 sheath. Sheath in black.

MarineLine® YOZp 0.6/1Kv

Semi-rigid output, power and control cable inside and on the deck of ships. XLPE insulation and LSHF SHF1 sheath. Overall armour with polished copper braid. Black sheath

MarineLine® AS+ 0.6/1Kv

Semi-rigid output, power and control cable inside and on the deck of ships. Insulation with Mica tape + XLPE and LSHF SHF1 sheath. Sheath in black.

Offshore cables



Sumsave® RFOU 0,6/1Kv (P1/P8) (TC/EPR/SHF2/ TCWB/SHF2)



Semi-rigid power cable (copper tin) for powering ships and platforms. EPR insulation and LSHF SHF2 MUD sheath. Armour copper braid. Black sheath.

Sumsave® RFOU 0,6/1Kv (P1/P8) (TC/EPR/SHF2/ TCWB/SHF2)



Semi-rigid power cable (copper tin) for powering ships and platforms. EPR insulation and LSHF SHF2 MUD sheath. Shielded individually and as a whole with aluminium tape + copper and tin drainage wire. Armour with copper braid. Black sheath.

Sumsave® RFOU 250V C (S2/S6) (TC/EPR/OS/SHF2/ TCWB/SHF2)



Semi-rigid power cable (copper tin) for powering ships and platforms. EPR insulation and LSHF SHF2 MUD sheath. Armour with copper braid and copper and tin draining wire. Black sheath.

Sumsave® RFOU 250V C (S2/S6) (TC/EPR/OS/SHF2/ TCWB/SHF2)



Semi-rigid power cable (copper tin) for powering ships and platforms. MICA+EPR tape insulation and LSHF SHF2 MUD sheath. Armour copper braid. Black sheath.

Cables transforming industries: Quick guide

Sumsave® RFOU 250V C (S2/S6) (TC/EPR/OS/SHF2/ TCWB/SHF2)



Semi-rigid power cable (copper tin) for powering ships and platforms. MICA+EPR tape insulation and LSHF SHF2 MUD sheath. Shielded individually and as a whole with aluminium tape + copper and tin drainage wire. Armour with copper braid. Black sheath.

Sumsave® BFOU 250V C (S4/S8) (TC/MICA TAPE/ EPR/OS/SHF2/TCWB/SHF2)



Semi-rigid power cable (copper tin) for powering ships and platforms. MICA+EPR tape insulation and LSHF SHF2 MUD sheath. Armour with copper braid and copper and tin draining wire. Black sheath.

Cables for subsea applications

Sumflex® Aquatron ROV Ethernet 300V



Flexible floating Category 5e Ethernet cable for marine and submarine technology. Special thermoplastic elastomer insulation and PUR Foam + PUR Skin sheath. Sheath in yellow.

Sumflex® Aquatron TOAGWB 0.6/1Kv



Extra-flexible floating Category Cat.6 Ethernet cable for marine and submarine technology. Special thermoplastic elastomer insulation and PUR sheath. Shielded with aluminium tape + copper and tin braid with a 85% coverage over Ethernet element. Self-supporting aramid core element.

Cables for photovoltaic solar panels

Cables designed and certified for installation between photovoltaic plates and panels, as well as between the panels and the junction box and direct installation between the panels and the DC to AC inverter when there is no junction box. Manufactured with highly flexible materials and a special sheath that repels rodents.

Sumsave® Solar AR H1Z2Z2-K (C:1.5/1.8Kv- A(1.2Kv)



Flexible cable with cross-link elastomer compound insulation and LSHF cross-linked sheath + anti-rodent additive.



Cables for submersible pumps

Cables for submersible pumps are available with a circular or flat design, with copper conductors for power and, optionally, for control conductors (they can be shielded) for adequate monitoring. They are designed for use in water (drinking, waste water and contaminated water) at diverse depths and different pressure values. The sheath is robust, flexible and with low water absorption, and is available in voltages assigned from 450/750V and 0.6/1kV.

Sumflex® R Clean Cable 450/750V



Highly flexible cable for powering engines in submersible pumps. Cross-link elastomer compound insulation and cross-link LSHF sheath. Water resistant: AD8. Blue sheath.



KTW



WRAS
APPROVED PRODUCT

Sumflex® F Clean Cable 450/750V



Highly flexible flat cable for powering engines in submersible pumps. Cross-link elastomer compound insulation and cross-link LSHF sheath. Water resistant: AD8. Blue sheath.



KTW



WRAS
APPROVED PRODUCT

Sumflex® BS 0,6/1Kv



Highly flexible cable for powering engines in submersible pumps. HEPR insulation and rubber sheath. Water resistant: AD8. Black sheath.

Sumflex® BSC 700V



Highly flexible cable for powering engines in submersible pumps. HEPR insulation and rubber sheath. Overall shield with copper and tin braid. Water resistant: AD8. Black sheath.

Cables for charging electric vehicles

Designed to transfer power from an energy source (a domestic socket or public charging station) to an electrical vehicle to charge its battery.

Sumflex® EVC (H07BZ-F) 450/750V



Extra flexible and highly robust cable according to EN 50620: 2017 for charging electric vehicles. EVI-2&EVI-1 insulation and PUR type EVM-1 Z5 sheath (increased mechanical resistance). Black sheath.



Automotive cables

Highly flexible cables especially indicated for component wiring in transport vehicles. They are used for electrical or battery wiring in utility vehicles, trucks, motorcycles, buses, agricultural and construction machinery.

Cables for internal wiring in vehicles

Sumflex® FLY 60V 105 °C



Flexible short cable with PVC insulation. Sheath in black, blue, orange, red and white. Excellent resistance to oils.

Sumflex® FLRY-A 60V 105 °C



Flexible short cable with Type A asymmetric copper conductor. PVC insulation. Sheath in black, blue, orange, red and white. Excellent resistance to oils.

Sumflex® FLRY-B 60V 105 °C



Flexible short cable with Type B asymmetric copper conductor. PVC insulation. Sheath in black, blue, orange, red and white. Excellent resistance to oils.

Cables for connecting batteries

Sumflex® Battery 60V 105 °C



Flexible short cable with special PVC insulation. Sheath in red and black. Good resistance to oils.

Rolling stock cables

The cables are designed and certified for use inside trains, covering applications such as control systems, train brakes, operator control panels, electrical traction, control cabinets, coupling systems, engines, batteries, automatic systems for opening and closing doors, lighting, ventilation and air conditioning. The fire protection of these cables complies with international standard DIN EN 45545-2 which has the objective of reducing the risk of generating fire and controlling the speed of propagation and extinguishing of the fire.

Control cables for rolling stock

Sumtraffic® Control EN 45545-2 300/500V 105 °C



Flexible control cable. Installation inside and outside of train and bus (Rolling Stock). LSHF type M-line insulation and sheath. Black sheath.

Sumtraffic® Control EN 45545-2 300/500V 105 °C



Flexible control cable. Installation inside and outside of train and bus (Rolling Stock). LSHF type M-line insulation and sheath. Overall shield with copper and tin braid. Black sheath.

Sumtraffic® MPF EN 50264-3-2 300V



Flexible control cable (copper tin). Installation inside and outside of train and bus (Rolling Stock). LSHF type M-line insulation and sheath. Black sheath.

Sumtraffic® PF EN 50306-2 300V



Flexible short connection cable. Installation inside and outside of train and bus (Rolling Stock). LSHF type M-line insulation and sheath.

Sumtraffic® MPF EN 50264-3-2 300V



Flexible control cable (copper tin). Installation inside and outside of train and bus (Rolling Stock). LSHF type M-line insulation and sheath. Shield with copper and tin braid. Black sheath.

Sumtraffic® Control HF EN 45545-2 300/500V 105 °C



Extra-flexible control cable. Installation inside and outside of train and bus (Rolling Stock). LSHF type M-line insulation and sheath. Black sheath.

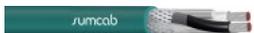
Sumtraffic® Control HFC EN 45545-2 300/500V 105 °C



Extra-flexible control cable. Installation inside and outside of train and bus (Rolling Stock). LSHF type M-line insulation and sheath. Shield with copper and tin braid. Black sheath.

Control cables for rolling stock

Sumtraffic® Data Bus WTb EN 45545-2 300V



Flexible WTb (Wire train Bus) data cable. HL1-HL3 risk level. LSHF Foam insulation and LSHF type M-line sheath. Shield with copper and tin braid. Sheath in turquoise.

Sumtraffic® Databus SPE EN 45545-2 100V



Single pair data transmission cable via Ethernet. HL1-HL3 risk level. Special thermoplastic polymer insulation and LSHF type M-line sheath. Overall shield with aluminium tape + copper and tin draining wire + copper and tin braid, 85% coverage. Sheath in green.

Sumtraffic® Databus Quadrax EN 45545-2 300V



Data transmission cable via Ethernet. HL1-HL3 risk level. Special thermoplastic polymer insulation and LSHF type M-line sheath. Overall shield with aluminium tape + copper and tin draining wire + copper and tin braid, 85% coverage. Sheath in turquoise.

Sumtraffic® Data Bus MTB EN 45545-2 300V



Flexible data transmission cable MTB (Multi functional vehicle Bus). HL1-HL3 risk level. LSHF Foam insulation and LSHF type M-line sheath. Shield with copper and tin braid.

Power cables for rolling stock

Sumtraffic® RS1 EN 50264-3-1 0.6/1Kv



Short power cable (copper and tin). Installation inside and outside of train and bus (Rolling Stock). HL1-HL3 risk level. LSHF type M-line insulation and sheath.

Sumtraffic® MRS1 EN 50264-3-2 0.6/1Kv



Flexible power cable (copper and tin). Installation inside and outside of train and bus (Rolling Stock). HL1-HL3 risk level. LSHF type M-line insulation and sheath.

Sumtraffic® MRS1C EN 50264-3-2 0.6/1Kv



Flexible power cable (copper and tin). Installation inside and outside of train and bus (Rolling Stock). HL1-HL3 risk level. LSHF type M-line insulation and sheath. Overall shield with copper and tin braid.

Other cable constructions

Sumtraffic® RS2 EN 50264-3-1 1.8/3Kv

Short power cable (copper and tin). Installation inside and outside of train and bus (Rolling Stock). HL1-HL3 risk level. LSHF type M-line insulation and sheath.

Sumtraffic® RS3 EN 50264-3-1 3.6/6Kv

Short power cable (copper and tin). Installation inside and outside of train and bus (Rolling Stock). HL1-HL3 risk level. LSHF type M-line insulation and sheath.

Cables for the extractive industry (Mining)

The electrical cables designed for underground and open-pit mines (quarries) are highly robust and are used to supply energy to buildings, lighting equipment, safety systems, ventilation and extraction. They are also essential for the power, control and transmission of data and signals to equipment and machines such as water pumps, engines, drills, excavators, stackers, lift systems and shredders. These cables must have exceptional features, including resistance to abrasion, impact, traction, twisting, extreme temperatures and movement, in order to guarantee maximum operational safety.

Armoured cables for mines

Sumline® Mine VVMV 0.6/1Kv



Rigid or semi-rigid cable with PVC type B insulation and PVC sheath. Galvanised steel wire and copper core armour. With steel strap counter-spiral. Sheath in yellow or black.

Sumline® Mine VVMV 3.6/6Kv



Rigid or semi-rigid cable with PVC type B insulation and PVC sheath type ST2. Galvanised steel wire and copper core armour. With steel strap counter-spiral. Sheath in yellow, red or black.

Sumflex® Mine DS1N 0.6/1Kv



Flexible cable (copper and tin) for mine interiors, asymmetric. EPR insulation + semiconductor shield over each phase conductor and rubber sheath. Sheath in yellow.

Sumflex® Mine DM2N 0.6/1Kv



Flexible cable (copper and tin) for mine interiors, asymmetric. Flexible armour of galvanised steel and copper wires, conductance equivalent to the phase conductor. Black sheath.

Sumline® Mine E02VMV-U 500V



Rigid communication cable. Polyethylene type LDPE insulation and PVC RH sheath. Pairs wired together concentrically. Shield with aluminium tape + copper and tin draining wire. Galvanised steel wire and copper core armour. Sheath in black or blue.

Sumflex® Mine DM2N Pilot 0.6/1Kv



Flexible cable (copper and tin) for mine interiors with pilot conductor. EPR insulation and rubber sheath. Galvanized steel wire flexible armouring. Black sheath.

Flexible rubber cables for mines

Sumflex® G-GC 2000V



Highly flexible cable (copper and tin) for the connection of mobile equipment and machines. EPR insulation. Nylon protection and CPE sheath. Black sheath.

Sumflex® NSSHOEU 3E 0.6/1Kv



Highly flexible cable for the connection of mobile equipment and machines. EPR insulation. Nylon protection and rubber sheath. Sheath in yellow.

Cables for pipe and channel inspection robots

The cables for pipe inspection robots are designed to connect the robot to the control station on the surface. They include conductors for power, communication and, optionally, hoses for air and water. They must have a sheath that is resistant to aggressive atmospheres, high chemical resistance and grey water resistance, and also support continuous movement and have a diameter and weight that are optimised for reduced spaces.

Cables for inspection robots

Sumflex® PUR-HF KRC 1619 300/500V



Extra flexible cable for data, signal and power transmission for pipeline inspection robots (Sewer-Robot). Special thermoplastic compound insulation and PUR sheath. + 2 fibre optic conductors FO + tube concentrically wired with fillers. Vectran® double braid protection + PTFE tape. Sheath in black or orange colour.

Sumflex® PUR-HF KRC 1617 300/500V



Extra-flexible cable (polished or tinned copper) for data, signal and power transmission for pipeline inspection robots (Sewer-Robot). Special thermoplastic compound insulation and PUR sheath. Conductors + tube concentrically wired with fillers. Vectran® double braid protection + PTFE tape. Sheath in black or green colour.

Sumflex® PUR-HF KRC 1616 300/500V



Extra-flexible cable (polished or tinned copper) for data, signal and power transmission for pipeline inspection robots (Sewer-Robot). Special thermoplastic compound insulation and PUR sheath. Individual shield with copper and tin braid, 90% coverage. Vectran® double braid protection + PTFE tape. Sheath in blue colour.

Sumflex® PUR-HF KRC 1609 300/500V



Extra-flexible cable for data, signal and power transmission for pipeline inspection robots (Sewer-Robot). Special thermoplastic compound insulation and PUR sheath. Conductors +4 tubes concentrically wired with fillers. Individual shield with copper and tin braid. 90% coverage. Vectran® double braid protection + PTFE tape. Sheath in orange colour.

Other cable constructions

Sumflex® PUR-HF KRC 1611 300/500V

Extra-flexible cable for data, signal and power transmission for pipeline inspection robots (Sewer-Robot). Special thermoplastic compound insulation and PUR sheath. Conductors +2FO+75Ω+2 tubes concentrically wired with fillers. Individual shield with copper and tin braid. 90% coverage. Vectran® double braid protection + PTFE tape. Sheath in black colour.

Sumflex® PUR-HF KRC 1607 300/500V

Extra flexible cable for data, signal and power transmission for pipeline inspection robots (Sewer-Robot). Special thermoplastic compound insulation and PUR sheath. Conductors +4 tubes concentrically wired with fillers. Individual shield with aluminium tape + draining wire. Vectran® double braid protection + PTFE tape. Sheath in black colour.

Sumflex® PUR-HF KRC 1606 300/500V

Extra flexible cable for data, signal and power transmission for pipeline inspection robots (Sewer-Robot). Special thermoplastic compound insulation and PUR sheath. Conductors +3 tubes concentrically wired with fillers. Individual shield with copper and tin braid. 90% coverage + aluminium tape + copper and tin braid, 95% coverage. Vectran® double braid protection + PTFE tape. Sheath in black colour.

Cables for PIVOT irrigation systems

Designed to drive power to the control, manoeuvre, and safety systems and to feed the electric motors. These cables have excellent mechanical resistance, are highly flexible, resistant to UV rays and humidity and resistant to low and high temperatures.

Sumflex® PIVOT 0.6/1Kv



Flexible cable for irrigation systems with XLPE insulation and PVC sheath. Black sheath.

Cables for wind turbines

The cables for wind towers are intended for the supply of energy, data transmission, signals, communication and control of the entire system. They must support severe conditions such as temperatures of -40°C to $+90^{\circ}\text{C}$, reduced spaces, contact with oils, vibrations and continuous twisting movement of up to $150^{\circ}/\text{m}$, guaranteeing reliable operation for many years.

Cables for motors in wind turbines

Sumtherm® SIL-KUL 1,1Kv



Extra-flexible silicone cable, varnished polyurethane fibre braid.

Sumtherm® SIL-KUL 3,7Kv



Extra-flexible silicone cable, varnished polyurethane fibre braid.

Sumtherm® SIL-KUL 6,6Kv



Extra-flexible silicone cable, varnished polyurethane fibre braid.

Sumtherm® SIL-KUL 13,8Kv



Extra-flexible silicone cable, varnished polyurethane fibre braid.

Instrumentation and control cables for wind turbines

Sumflex® Ventus TS 250/300V



Extra flexible (Class 6) cable for data, signal, communication and equipment control in wind towers. Special thermoplastic compound insulation and special PVC sheath. Individual shield with copper and tin braid (depending on the model) and overall shield with copper and tin braid. Black sheath.

Sumflex® Ventus 250/300V



Extra flexible (Class 6) cable for data, signal, communication and equipment control in wind towers. Special thermoplastic compound insulation and special PVC sheath. Individual shield with aluminium tape + draining wire (depending on the model) and overall shield with aluminium tape + copper and tin draining wire. Black sheath.

Sumflex® Ventus TS M-line 250V



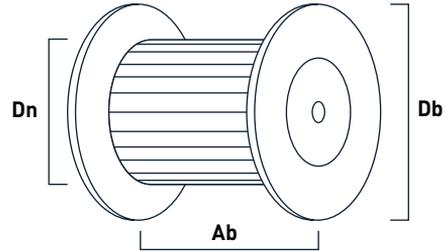
Extra flexible (Class 6) cable for data, signal, communication and equipment control in wind towers. Special thermoplastic compound insulation and LSHF type M-line sheath. Individual shield with copper and tin braid (depending on the model) and overall shield with copper and tin braid. Black sheath.

Technical annex

Dimensions and capacities of the reels

Dimensions of the wooden reels

Reel type	Weight (kg)	Db (mm)	Dn (mm)	Ab (mm)	Vol (m ³)
M600	19	630	315	370	0.35
M800	38	800	400	520	0.61
M1000	57	1.000	500	610	1.03
M1200	76	1.200	630	610	1.44
M1400	114	1.400	710	810	2.15
M1600	191	1.600	900	980	2.91
M1800	250	1.800	1.120	960	
M2000	381	2.000	1.250	960	
M2400	520	2.400	1.400	1.190	

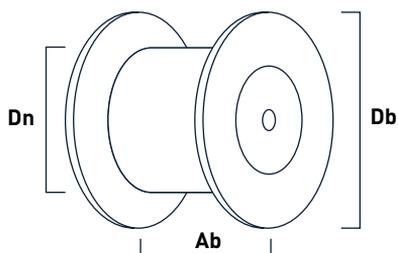


Reel capacity

Ø cable (mm)	M600 (mm)	M800 (mm)	M1000 (mm)	M1200 (mm)	M1300 (mm)	M1600 (mm)	M1800 (mm)	M2000 (mm)	M2200 (mm)	M2400 (mm)
5	2.112	5.391	10.732	15.582	30.178	44.334	49.329	61.751	97.934	131.221
6	1.467	3.744	7.453	10.821	20.957	30.788	34.256	42.883	68.010	91.126
7	1.077	2.751	5.475	7.950	15.397	22.620	25.168	31.506	49.966	66.950
8	825	2.106	4.192	6.087	11.788	17.318	19.269	24.122	38.255	51.258
9	652	1.664	3.312	4.809	9.314	13.683	15.225	19.059	30.226	40.500
10	528	1.348	2.683	3.896	7.544	11.084	12.332	15.438	24.483	32.805
11	436	1.114	2.217	3.219	6.235	9.160	10.192	12.759	20.234	27.112
12	367	936	1.863	2.705	5.239	7.697	8.564	10.721	17.002	22.782
13	312	797	1.588	2.305	4.464	6.558	7.297	9.135	14.487	19.411
14	269	688	1.369	1.988	3.849	5.655	6.292	7.876	12.492	16.737
15	235	599	1.192	1.731	3.353	4.926	5.481	6.861	10.882	14.580
16	206	526	1.048	1.522	2.947	4.330	4.817	6.030	9.564	12.815
17	183	466	928	1.348	2.611	3.835	4.267	5.342	8.472	11.351
18	163	416	828	1.202	2.329	3.421	3.806	4.765	7.557	10.125
19	146	373	743	1.079	2.090	3.070	3.416	4.276	6.782	9.087
20	132	337	671	974	1.886	2.771	3.083	3.859	6.121	8.201
21	120	306	608	883	1.711	2.513	2.796	3.501	5.552	7.439
22	109	278	554	805	1.559	2.290	2.548	3.189	5.059	6.778
23	100	255	507	736	1.426	2.095	2.331	2.918	4.628	6.201
24	-	234	466	676	1.310	1.924	2.141	2.680	4.251	5.695
25	-	216	429	623	1.207	1.773	1.973	2.470	3.917	5.249
26	-	199	397	576	1.116	1.640	1.824	2.284	3.622	4.853
27	-	185	368	534	1.035	1.520	1.692	2.118	3.358	4.500
28	-	172	342	497	962	1.414	1.573	1.969	3.123	4.184
29	-	160	319	463	897	1.318	1.466	1.836	2.911	3.901
30	-	150	298	433	838	1.232	1.370	1.715	2.720	3.645
31	-	140	279	405	785	1.153	1.283	1.606	2.548	3.414
32	-	132	262	380	737	1.082	1.204	1.508	2.391	3.204
33	-	124	246	358	693	1.018	1.132	1.418	2.248	3.012
34	-	117	232	337	653	959	1.067	1.335	2.118	2.838
35	-	110	219	318	616	905	1.007	1.260	1.999	2.678
36	-	104	207	301	582	855	952	1.191	1.889	2.531
37	-	-	196	285	551	810	901	1.128	1.788	2.396
38	-	-	186	270	522	768	854	1.069	1.696	2.272
39	-	-	176	256	496	729	811	1.015	1.610	2.157
40	-	-	168	243	472	693	771	965	1.530	2.050
41	-	-	160	232	449	659	734	918	1.456	1.952
42	-	-	152	221	428	628	699	875	1.388	1.860
43	-	-	145	211	408	599	667	835	1.324	1.774
44	-	-	139	201	390	572	637	797	1.265	1.694
45	-	-	132	192	373	547	609	762	1.209	1.620
46	-	-	127	184	357	524	583	730	1.157	1.550
47	-	-	121	176	342	502	558	699	1.108	1.485
48	-	-	116	169	327	481	535	670	1.063	1.424

Counterplate reel dimensions

Reel type	Db (mm)	Dn (mm)	Ab (mm)
C-35/16	350	200	160
C-35/20*	350	200	200
C-40/30*	400	200	300
C-50/30	500	250	300
C-50/35*	500	200	350
C-60/30	600	250	300
C-63/37	630	300	370
C-75/35	750	350	350
C-80/50	800	400	500



Reel capacity

Ø cable (mm)	C-35/16	C-35/20 *	C-40/30 *	C-50/30	C-50/35 *	C-60/30	C-63/37	C-75/35	C-80/50
5,0	345	430	960	1.560	2.050	2.580	3.250	4.500	7.000
5,5	280	350	800	1.300	1.700	2.125	2.700	3.700	5.800
6,0	235	300	660	1.090	1.450	1.780	2.250	3.125	4.860
6,5	200	250	575	925	1.225	1.500	1.910	2.640	4.130
7,0	160	210	500	790	1.040	1.300	1.640	2.290	3.550
7,5	145	180	425	680	910	1.120	1.420	1.980	3.100
8,0	125	150	370	605	805	995	1.275	1.750	2.720
8,5	110	135	325	530	705	880	1.120	1.540	2.405
9,0	100	125	290	475	625	775	990	1.375	2.150
9,5	-	110	255	425	565	705	890	1.230	1.925
10,0	-	102	235	385	505	630	805	1.105	1.735
10,5	-	-	208	345	460	570	715	1.005	1.575
11,0	-	-	190	315	420	520	650	905	1.425
11,5	-	-	175	275	380	470	605	825	1.310
12,0	-	-	155	260	350	425	550	755	1.195
12,5	-	-	140	240	325	395	505	700	1.100
13,0	-	-	130	220	295	360	465	645	1.010
13,5	-	-	120	200	265	335	425	595	940
14,0	-	-	110	180	245	305	395	545	870
14,5	-	-	102	170	235	290	370	510	815
15,0	-	-	-	160	215	270	345	475	755

* Reels with cardboard core

Conversion table

AWG - mm²

North American measurement unit		Exact measurement mm ²	Nominal measurement compliant mm ²
AWG	kcmll		
	750	380,03	400
	500	253,35	300
	450	228,02	240
	400	202,68	
	350	177,35	185
	300	152,01	
	250	126,68	150
4/0		107,22	120
3/0		85,01	95
2/0		67,43	70
1/0		53,49	
1		42,41	50
2		33,62	35
3		26,67	
4		21,15	25
5		16,77	
6		13,3	16
7		10,55	
8		8,37	10
9		6,63	
10		5,26	6
11		4,17	
12		3,31	4
13		2,62	
14		2,08	2,5
15		1,65	
16		1,31	1,5
17		1,04	
18		0,82	1
19		0,65	0,75
20		0,52	
21		0,41	0,5
22		0,33	0,34
23		0,26	
24		0,2	0,25
25		0,16	
26		0,13	0,14

Cable colour code

UNE21089:2002 / HD 308 S2:2001

Colour code: UNE 21089:2002 / HD 308 S2 2001

With protection conductor (yellow/green)

Conductor No.	Conductor insulation colour					
3	Blue	Brown	Yellow/green	-	-	-
4	Blue	Brown	Black	Yellow/green	-	-
4	Grey	Brown	Black	Yellow/green	-	-
5	Blue	Brown	Black	Grey	Yellow/green	-

Colour code: UNE 21089:2002 / HD 308 S2 2001

Without protection conductor (Yellow/green)

Conductor No.	Conductor insulation colour					
2	Blue	Brown	-	-	-	-
3	Blue	Brown	Black	-	-	-
3	Grey	Brown	Black	-	-	-
4	Blue	Brown	Black	Grey	-	-
5	Blue	Brown	Black	Grey	Black	-

Colour code: UNE 21089-2

Conductor No.	Conductor insulation colour					
>5	Black numbered in white + 1 cod. Yellow/green					

UNE21089:2002 / DIN 47100

N.º	Colour	N.º	Colour	N.º	Colour
1	White	22	Brown/Blue	42	Pink/Black
2	Brown	23	White/Red	43	Blue/Black
3	Green	24	Brown/Red	44	Red/Black
4	Yellow	25	White/Black	45	White/Brown/Black
5	Grey	26	Brown/Black	46	Yellow/Green/Black
6	Pink	27	Grey/Green	47	Grey/Pink/Black
7	Blue	28	Yellow/Grey	48	Blue/Red/Black
8	Red	29	Pink/Green	49	White/Green/Black
9	Black	30	Yellow/Pink	50	Green/Brown/Black
10	Violet	31	Green/Blue	51	White/Yellow/Black
11	Grey/Pink	32	Yellow/Blue	52	Yellow/Brown/Black
12	Red/Blue	33	Green/Red	53	White/Grey/Black
13	White/Green	34	Yellow/Red	54	Grey/Brown/Black
14	Brown/Green	35	Green/Black	55	White/Pink/Black
15	White/Yellow	36	Yellow/Black	56	Pink/Brown/Black
16	Yellow/Brown	37	Grey/Blue	57	White/Blue/Black
17	White/Grey	38	Pink/Blue	58	Brown/Blue/Black
18	Grey/Brown	39	Grey/Red	59	White/Red/Black
19	White/Pink	40	Pink/Red	60	Brown/Red/Black
20	Pink/Brown	41	Grey/Black	61	Black/White
21	White/Blue				

**Identification for Sumtronic Pos,
Sumtronic Par-Pos and Sumlene cables**

N.º	Colour	N.º	Colour	N.º	Colour
1	Black/Red	21	White/Brown	43	Black/Green
2	Black/White	22	White/Orange	44	Black/Brown
3	Black/Green	23	Blue/Yellow	45	Black/Grey
4	Black/Blue	24	Blue/Brown	46	Yellow/Blue
5	Black/Yellow	25	Blue/Orange	47	Yellow/Orange
6	Black/Brown	26	Brown/Yellow	48	Yellow/Green
7	Black/Orange	27	Brown/Orange	49	Yellow/Brown
8	Red/White	28	Orange/Yellow	50	Yellow/Grey
9	Red/Green	29	Violet/Orange	51	Violet/Blue
10	Red/Blue	30	Violet/Red	52	Violet/Orange
11	Red/Yellow	31	Violet/White	53	Violet/Green
12	Red/Brown	32	Violet/dark green	54	Violet/Brown
13	Red/Orange	33	Violet/light blue	55	Violet/Grey
14	Green/White	34	Violet/Yellow	56	Light green/Blue
15	Green/Blue	35	Violet/Brown	57	Light green/Orange
16	Green/Yellow	36	Violet/Black	58	Light green/Green
17	Green/Brown	37	Grey/White	59	Light green/Brown
18	Green/Orange	40	Red/Grey	60	Light green/Grey
19	White/Blue	41	Black/Blue		
20	White/Yellow	42	Black/Orange		

Colour code for thermocouples cables

Thermo couple	Type of cable		International color code according to IEC 60584.3:2007	International color coding according to IEC 60584.3:2007 for intrinsically safe areas	National redundant colour code				
	Extension	Compensation			British according to BS 1843 	North American according to ANSI/MC96.1 	German according to DIN 43714 	French according to NFC 42324 	Janese according to JIS C 1610-1981 
K	KX								
		KCA							
		KCB							
T	TX								
J	JX								
N	NX								
		NC							
E	EX								
R		RCA							
		RCB							
S		SCA							
		SCB							
B		BC							
G <small>(old code W)</small>		GC							
C <small>(old code W3)</small>		CC							
D <small>(old code WS)</small>		DC							

The codes and colours shown for the thermocouples type G, C and D have not been officially recognised.

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