

Magic moments

Cables, connectors, components
for power, light & sound



LAPP GROUP

The Lapp Group



Headquarters in Stuttgart



Lapp-Center in Stuttgart

The Lapp Group provides a complete range of cables for all manner of industries and markets. Sourcing from a single supplier means competent advice and consistently high quality down to the last detail for designers, planners and manufacturers. Not only that, they can also be sure that all components are perfectly harmonised and enjoy fast, hassle-free ordering. Lapp Group's products are predominantly manufactured in the Lapp Group's own production plants.

Over 40,000 different standard products are currently available off the shelf. In addition, special cables are developed and produced to create individual customer solutions.

To contact your local Lapp Group representative please visit www.lappgroup.com/worldwide

Table of Contents

Power and control cables

Special applications

Light & Sound technology

ÖLFLEX® STAGE BK 10

ÖLFLEX® STAGE BK pre-made 11

Wide range use

PVC sheath and coloured cores

ÖLFLEX® CLASSIC 100 BK POWER 0,6/1kV 12

PVC sheath and numbered cores

ÖLFLEX® CLASSIC 110 13

Special applications

Light & Sound technology

Powercore ÖLFLEX CLASSIC 110 with 16pol. EPIC-Connectors 15

Wide range use

PVC sheath and numbered cores

ÖLFLEX® CLASSIC 110 BLACK 0,6/1kV 16

Special applications

Light & Sound technology

Powercore ÖLFLEX CLASSIC 110 BK with 16pol. EPIC-Connectors 17

Wide range use

Halogen-free

ÖLFLEX® CLASSIC 110 H 18

ÖLFLEX® CLASSIC 130 H 19

Harsh use conditions

Increased mechanical and chemical resistance

ÖLFLEX® 540 P 20

ÖLFLEX® 550 P 21

Rubber cables

H07ZZ-F 22

H05RR-F 23

H05RN-F 23

H07RN-F 23

Harnessed cables

Connection- and extension cables

ÖLFLEX® PLUG Extension Cable 25

ÖLFLEX® PLUG CEE (400 V) Connection/ Extension Cable 26

H05VV-F Net Connection Cable / ÖLFLEX® PLUG H03VV-F 27

Special applications

Light & Sound technology

ÖLFLEX® POWER REFLEX TR 28

Expanded ambient temperatures

Silicone cables (-50°C up to +180°C)

ÖLFLEX® HEAT 180 H05SS-F EWKF 29

ÖLFLEX® HEAT 180 SIHF 30

Data communication systems

Special cables for Light & Sound technology

Speaker

UNITRONIC® SPEAKER LIYY BK 31

UNITRONIC® SPEAKER LIYCY TR 31

UNITRONIC® SPEAKER LIHH BK 31

UNITRONIC® SPEAKER pre-made 32

UNITRONIC® SPEAKER X-FLEX BK 33

UNITRONIC® SPEAKER X-FLEX C BK 33

UNITRONIC® SPEAKER TR 34

UNITRONIC® SPEAKER FLAT TR 34

UNITRONIC® SPEAKER REFLEX TR 34

Microphone

UNITRONIC® MICROPHONE BK 35

UNITRONIC® MICROPHONE BK pre-made 36

Audio

UNITRONIC® AUDIO AES/EBU (TP) PiMF CY BK 37

UNITRONIC® AUDIO AES/EBU (TP) PiMF-D BK 37

UNITRONIC® AUDIO AES/EBU (TP) PiMF-D CY BK 37

UNITRONIC® AUDIO AES/EBU (TP) PiMF FRNC BK 38

DMX

UNITRONIC® DMX (AES/EBU) PiMF CY BK 39

UNITRONIC® DMX (AES/EBU) PUR PiMF C BK 39

UNITRONIC® DMX pre-made 40

Video

UNITRONIC® VIDEO FLAT 41

UNITRONIC® VIDEO RL BK 41

UNITRONIC® VIDEO pre-made 42

Coaxial cables

High frequencies

UNITRONIC COAXIAL 75 Ω MINI BK SAT 43

UNITRONIC COAXIAL 75 Ω HALOGENFREE 43

UNITRONIC COAXIAL 75 Ω DIGITAL SAT SPECIAL 43

UNITRONIC COAXIAL 75 Ω TV FOR BC- A. TERR. APPLICATION 44

UNITRONIC COAXIAL 75 Ω TWIN 44

UNITRONIC COAXIAL 75 Ω QUATTRO 45

UNITRONIC COAXIAL 75 Ω OUTDOOR CABLE 45

UNITRONIC COAXIAL 75 Ω VIDEO CABLE 46

UNITRONIC COAXIAL 75 Ω SAT 100 DB 46

UNITRONIC COAXIAL 75 Ω (0,6/3,7) + AUDIO 2x0,75 47

UNITRONIC COAXIAL 75 Ω (0,6/2,8) VIDEO green FRNC 47

UNITRONIC COAXIAL 75 Ω (0,8/3,7) VIDEO green 48

Special cables for Light & Sound technology

Combi cables

UNITRONIC® Combi cable 49

Data communication systems for ETHERLINE-Technology

Accessories for Light & Sound technology

CAT.5 cables for Light & Sound technology

ETHERLINE® CAT.5 FD P BK 50

Accessories for INDUSTRIAL networking

LAN cables for industrial cabling

ETHERLINE® 4-pairs CAT.6a + CAT.7 51

Components for building networking

LAN cables for structured building cabling

UNITRONIC® LAN STP/S PiMF 600 MHz - CAT.7 52

EPIC® Industrial connectors

Rectangular connectors

EPIC® H-BE Inserts

EPIC® H-BE 16 Screw termination 53

EPIC® H-BE 16 Crimp termination 53

EPIC® H-BE 16 Cage clamp 53

EPIC® H-BS Inserts

EPIC® H-BS 6 54

EPIC® H-BS 12 54

EPIC® Rectangular Kits

EPIC® H-BE 16 Kits 55

Cable glands

SKINTOP® cable glands nickel plated brass metric

SKINTOP® MS-M

SKINTOP® MS-M / SKINTOP® MSR-M 56

Curtains up! Let the show begin!



Curtains up! Let the show begin!

A wide range of devices and components have to be put in place before these exciting words can be spoken: microphones, preamplifiers, mixing desks, amplifiers, speakers, spotlights, light control systems, motors and, of course, a reliable power supply!

Put simply, you will also need a large number of different types of cable to set up your event in addition to all of the sound, light, video and power components.



Individual solutions from our specialists

Specialist SBU managers will discuss your requirements with you in detail to help you find the correct solutions for all of your tasks.

design special customer-specific cables and special fully assembled products to meet your needs.

We have excellent knowledge of the industry, which allows us to continuously expand our range of products and provide you with support as an innovative partner. As well as providing you with extensive advice on our standard products (cables and fully assembled products), we are also able to individually

These industry-specific special solutions are tailored and designed exactly to your needs. With our products in the field of audio, video, energy, control, data and network technology, Lapp Kabel boasts an extensive portfolio for specific industries.



Always perfectly connected

We will also provide you with professional advice if you wish to have your cables delivered with specific printing on them or if you wish to implement new technology in terms of inventory management, identification or scanning of measurement logs via RFID (Radio Frequency Identification). We will offer you advice and practical assistance for these technologies.

We ensure that the correct connections are in place for opera houses, theatres, convention centres, concerts, film and television productions, studios and radio and television broadcasters - whether for mobile applications or fixed installations.

Internet Cable Finder

The right cable at a “click”

As market leader, Lapp Group’s wide range has a cable for just about every application.

This wide choice is available on three different media, which are revised annually:

- Lapp Group Main catalogue
- Internet Web catalogue
- Internet Cable Finder

The Cable Finder includes cables and fibre optic cables that are listed as „sold by the metre“ in the main catalogue. In addition, the Cable Finder „NEW“ filter gives an overview of all products introduced over the last twelve months.

The Cable Finder was produced with the greatest possible care. We nevertheless draw your attention to the disclaimer, which you can find on our Homepage under „Imprint“...



www.lappgroup.com/cablefinder

EPIC® Connector Selector – Support for configuration of Industrial Connectors

Configure your customized connector with the EPIC® Connector Selector. For EPIC® rectangular connectors, circular connectors and solar connectors. After the input of the technical parameter, a choice of suitable connector inserts will be provided. Once the chosen insert has been selected, the connector selector will provide a list of suitable housing.

Additional technical specification of the product are available by links at any time of your search. Your selected component parts will be put on a list. It’s so quick that by the time it’s taken you to read these lines, you could nearly of selected a complete connector. Please test it!



www.lappgroup.com/connectorfinder

Our international brands



ÖLFLEX® Power- and control cables

ÖLFLEX® is used in machinery, machine tools, system and appliance engineering, measuring, control, heating and air conditioning technologies. For permanent connections or in cable chains, halogen-free

or internationally certified, you can choose from our comprehensive range of standard products.



UNITRONIC® Data communication systems

Lapp produces a full range of data cables for fast and secure transfers of large volumes of data. From machine electronics and bus systems to super-fast LAN data

networks or highly-versatile applications: We have the data cables you need for virtually any situation.



HITRONIC® Optical transmission systems

HITRONIC® fibre optic cables are designed to transfer large volumes of data. Communications media via fibre optics are fast, efficient, and secure. Not even electromagnetic interference can affect HITRONIC®

fibre optic cable. The HITRONIC® range of products includes cables for office communications, industrial applications, simplex, duplex, hybrid wiring, or cable chain applications.



SKINTOP® Cable glands

SKINTOP® cable glands guarantee secure connections every time. Simply thread the cable and twist. That's all! Your cables are perfectly centered, secured, hermetically sealed, and ready for action. Choose from

a wide range of models in plastic or brass, for EX and EMC applications, halogen-free types or anti-kink protection, metric, PG or NPT.

Our international brands



SILVYN® Protective cable conduit systems and cable carrier systems

In many applications cables have to be additionally protected against mechanical and chemical stress. For this type of application, Lapp Group can supply the universal **SILVYN®** protective cable conduit program. Cable conduits manufactured from metal or plastic material, which can be used with matching glands to form a perfect

system connection. The complete system results in all round protection for cables in indoor and outdoor installations. With **SILVYN® CHAIN**, Lapp Group's widely variable programme of power chains we offer both cable protection and guidance for highly dynamic applications.



FLEXIMARK® Cable marking products

Labels on single cores, cables, and control cabinets need to remain legible for years to come. This is the best way to keep things well organized and avoid potential problems.

From plastic to durable stainless steel, manual or electronic identification, with **FLEXIMARK®** you can be sure that your labels will last a lifetime.



EPIC® Industrial connectors

When we talk about secure connections, you can take us at our word. **EPIC®** industrial connectors produce an absolutely secure connection in combination with ÖLFLEX® cables. We provide the right contact for all

your needs: From rectangular or circular connectors, to housings, inserts, contacts and accessories, bus or fibre optic cable applications.



ETHERLINE® Data communication systems for ETHERNET-Technology

The Lapp Group is now in a position to offer comprehensive system solutions in the field of industrial networking. Its Factory Automation division supplies active network components that are used to supplement existing cable and plug technologies. These include services and security systems incor-

porating firewall solutions, in addition to distribution components such as switches, routers, cables and plug connectors. For its industrial customers, all of this means that a solution from the Lapp Group represents a considerable step forward in terms of security, safety and availability.



Lapp products learn how to talk

Lapp RFID - New product highlights by Lapp

The latest innovation from Lapp Kabel is ready for launch under the motto „Lapp products learn how to talk“. Lapp Kabel has combined

its cable and connector technology with an RFID system.

What is RFID?

RFID stands for „Radio Frequency Identification“. This technology uses radio waves to transfer data. The scanner does not have to contact the RFID tag and tags can still be read even if they are beyond the line of sight of the scanner.

In its most basic form, an RFID system consists of at least 3 components:

- Transponder
- Reader/Scanner
- IT system

The word „transponder“ is made up from the words „trans(mitter)“ and „(res)ponder“. The transponder is the component which actually holds the data in the RFID system. It consists of an antenna, a microchip and a housing. It is designed to accept and store data or to allow data to be read out from it.

The writing/reading device is often combined in one unit. It can be a handheld device, a mobile phone or a device specially developed for RFID technology. These devices are used to write data to the transponder or read out data from it.

The IT system allows the data to be processed and, for example, incorporated into an inventory management system.

RFID is often compared to barcode technology, which has been in use for many years. In actual fact, RFID has some important advantages compared to barcode technology:

Non-contact data reading beyond the line of sight

Since RFID is based on radio technology, data can be transferred without the need for the scanner to contact the tag. RFID tags can still be read even if they are beyond the line of sight of the scanner, unlike barcodes.

Simultaneous reading and writing of data

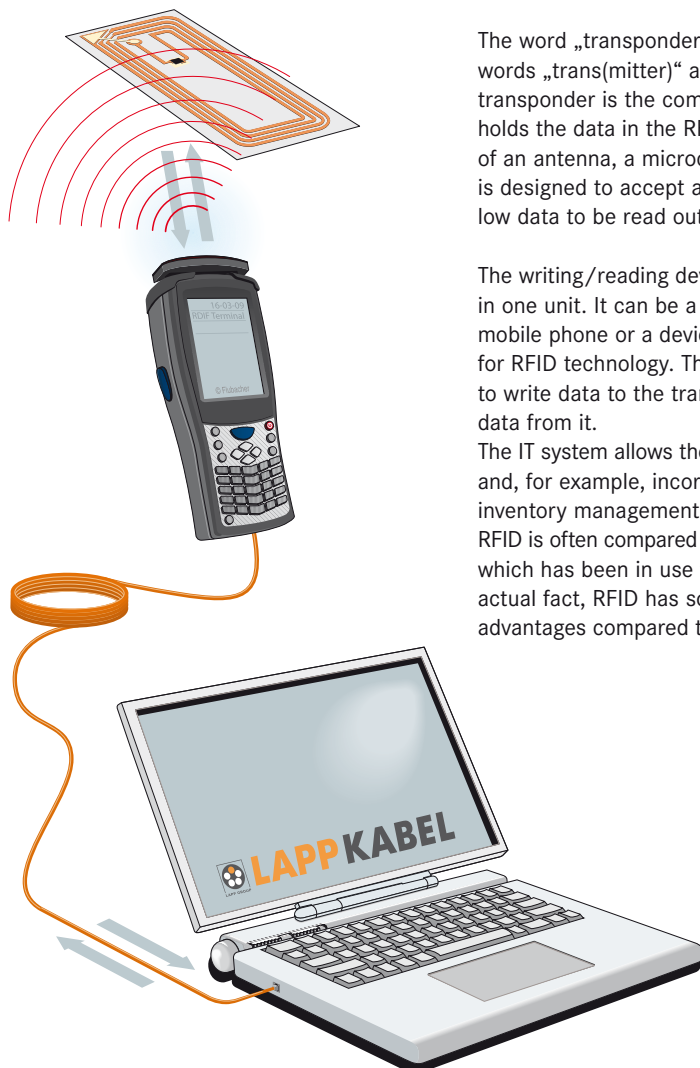
A barcode system requires a database which supplies the relevant data. This means that a connection to the corresponding database is always required to identify a barcode. With an RFID transponder, identification data can be stored on the chip itself. This data is thus definitively assigned to the product.

Resistant to external influences

External influences such as dirt or moisture have no effect on RFID transponders. Barcodes may however be rendered illegible and thus unusable in similar circumstances.

Bulk scanning

RFID allows multiple transponders to be scanned in one operation.



Lapp products learn how to talk

Cables and connectors with RFID

All of the aforementioned advantages of RFID have now been combined with high-quality products from Lapp Kabel. RFID chips and RFID sensors are integrated into the cable and connector during production. This has no effect on the high flexibility and physical durability of the components. This innovation allows the cables and connectors to be used for new applications, especially in the field of light and sound engineering:

Identification

It is often the case that several companies are contracted to work on setting up the same event. Whereas one company will be responsible for ensuring sound quality, another company will be in charge of the lighting. Naturally, the companies sometimes use the same infrastructure. Cables and connectors are often disassembled and then reassembled elsewhere, making it hard to keep track of them. RFID offers a solution to this problem by definitively identifying all of the components. An RFID chip is used to identify the company the component belongs to, preventing any mix-ups.

Inventory management

Due to the large quantities of cables and connectors in use, a lot of effort is put into handling these products. By connecting the products to an inventory management system using modern RFID technology, inventory management processes can be optimised significantly. The potential for manual data entry errors is minimised considerably, which in turn reduces process costs.

Storage of measurement logs

The law requires regular checking of cables and connectors used for mobile power supply applications. Since RFID transponders can store data and are rewritable, they can be used to store measurement logs i.e. the latest measurement logs can be stored directly on the component that has been checked. This allows the data to be accessed at any time and place as required.

Temperature and moisture measurement

Along with RFID chips, Lapp Kabel has also developed RFID sensors which can be integrated into a cable. These sensors can be used to monitor certain aspects of a cable. These include, for example, temperature and moisture measurement.

Lapp Kabel is delighted to help you innovate for success with RFID. Our consulting engineers are available to discuss your initial requirements.



The Lapp Group worldwide



Algeria

CABELMAT EURL
14, Cité Mimouni, Lotissement 18,
Villa No. 14
16411 Bordj El Kifane
Tel.: +213 20/38 82 20
Fax: +213 20/38 82 20
info@cablemat.net



Argentina

NAKASE SRL
Calle 49 N° 5764/66
B1653AOX
Villa Ballester
1870 Buenos Aires
Tel.: +54 11/4 76 84 24 21 22
Fax: +54 11/4 76 84 24 21 11
ventas@nakase.com
www.nakase.com.ar



Armenia

AH-Building Technologies LLC
8 Tumanyan Street, Ap.3188
375002 Yerevan, ARMENIEN
Tel.: +374 10/51 91 88
Mobil: +374 91/40 04 87
Fax: +374 10/52 01 88
info@ahbt.am



Australia

DKSH Australia Pty Ltd.
14-17 Dansu Court Hallam
3803 Victoria, Australia
Tel.: +61 3/95 54 66 66
Fax: +61 3/95 54 66 88
info@dksh.com.au



Austria

Lapp Austria GmbH
Bremenstraße 8
4030 Linz
Tel.: +43 732/78 12 72
Fax: +43 732/78 12 72 33
sales@lappaustria.at
www.lappkabel.at



Azerbaijan

Ticeret Merkezi - 4"
Gara Sheher 35
1025 Baku
Tel.: +994 12/4 90 65 94
Mobil: +994 5 03 55 01 02
Fax: +994 12/4 96 50 57
emil_it@office.az

Mikhail Ali-Zade
Aga-Neymatulla Str. 47A, apt. 6
1052 Baku
Tel.: +994 12/4 24 89 73
Fax: +994 12/4 49 92 70
ims.inc@azdata.net



Belarus

PNS-Professional Network Systems
Temirjaseva Str. 65a-19
220035 Minsk
Tel.: +375 17/2 50 44 21
Fax: +375 17/2 09 61 69
info@pns.by
www.pns.by



Benelux

Lapp Benelux B.V.
Van Dijklaan 16
NL - 5581 WG Waalre
Tel.: +31 40/2 54 54 65 (NL)
Tel.: +32 14/43 64 43 (BE, L)
Fax: +31 40/2 54 14 45 (NL)
Fax: +32 14/43 54 79 (BE, L)
info.lappbenelux@lappgroup.com
www.lappbenelux.com



Brazil

Cabos Lapp Brasil Ltda.
Av. Doutor Mauro Lindemberg
Monteiro, 684
Galpao 18-Osasco
CEP 06278-010 Sao Paulo
Tel.: +55 11/21 66 41 62
Fax: +55 11/21 66 41 65
vendas@lappbrasil.com.br
www.lappbrasil.com.br



Bulgaria

V & V Isomatic Ltd.
58, Dejan Belishki Str.
1404 Sofia
Tel.: +359 2/9 58 63 40
Fax: +359 2/9 58 22 70
v.v@techno-link.com
www.viv.isomatic.com



Canada

Lapp Canada Inc.
93 Skyway Avenue, Unit 111
M9W 6N6 Toronto Ontario
Tel.: +1 416/6 74 15 44
Fax: +1 416/6 74 99 50
sales@lappcanada.com
www.lappcanada.com



Chile

Desimat Chile
Av. Puerto Vespuccio 9670
Parque Industrial Puerto Santiago
Pudahuel, Santiago
Tel.: +56 2/5 85 12 00
Fax: +56 2/7 47 01 53
ventaschile@desimat.cl
www.desimat.cl



China

Lapp Group (Shanghai) Co. Ltd.
19F1 Zhaofeng Universe Building
1800 Zhongshan Road West
Shanghai PR 200233
Tel.: +86 21/64 40 08 33
Fax: +86 21/64 40 08 34
info@lappkabel.com.cn
www.lappkabel.com.cn



Colombia

Transmisiones Ltda.
Carrera 69 B No. 21 A 48
Bodega UE 28-9
Parque Industrial Salitre
Bogotá, D.C.
Tel.: +57 1/4 12 68 98
Fax: +57 1/31 53 31 52 21
info@transmisiones.de



Czech Republic

Lapp Group s.r.o.
Bartosova 315
76502 Otrokovice
Tel.: +420 573/50 10 11
Fax: +420 573/39 46 50
info@lappkabel.cz
www.lappkabel.cz



Denmark

Miltronik
Korskildeeng 6
2670 Greve
Tel.: +45 43/95 00 00
Fax: +45 43/95 00 09
info@miltronik.dk
www.miltronik.dk



Egypt

Arab Engineers Co.
113 El Thawra St., Heliopolis
Cairo
Tel.: +20 2/6 90 08 92
Fax: +20 2/4 18 71 05
cairo@arab-engineering.com
www.arab-engineering.com



Estonia

Lapp Miltronic SIA Eesti filiaali
Kastani pst. 10
44307 Rakvere
Tel.: +372 65/1 89 70
Fax: +372 65/1 89 71
info@lappmiltronic.ee
www.miltronic.ee



Finland

EPIC®
Energel Oy
Atomitie 1
00370 Helsinki
Tel.: +358 9/5 40 71 30
Fax: +358 9/54 07 13 30
energel@energel.com
www.energel.com



France

SKS Automaatio Oy
Martinkyläntie 50
P.O. Box 122
01721 Vantaa
Tel.: +358 2/07 64 61
Fax: +358 2/07 64 68 20
automaatio@sk.fi
www.sks.fi



France

Lapp France s.a.r.l.
Technopôle Forbach-Sud
57600 Forbach
Tel.: +33 387/84 19 29
Fax: +33 387/84 17 94
lappfrance@lappgroup.com
www.lappfrance.fr



France

LAPP MULLER SAS
Z.A. du Grand Pont
83310 Grimaud
Tel.: +33 494/56 65 00
Fax: +33 494/4 34 87
info@mullercables.com
www.mullercables.com



Georgia

INSTA Ltd.
8, Zakariadze str.
0177 Tbilisi
Tel.: +995 322/0 20 20
Fax: +995 322/0 20 22
sales@insta.ge
www.insta.ge



Germany

U.I. Lapp GmbH
Schulze-Deiltsch-Straße 25
70565 Stuttgart
Tel.: +49 711/78 38 01
Fax: +49 711/78 38 26 40
info@lappkabel.de
www.lappgroup.com

Lapp Systems GmbH

Oskar-Lapp-Str. 5
70565 Stuttgart
Tel.: +49 711/78 38 04
Fax: +49 711/78 38 35 20
info@lappkabel.de
www.lappgroup.com

PD-Lapp Systems GmbH

Am Gewerbepark 7
01723 Wilsdruff
Tel.: +49 35204/2 05 85
Fax: +49 35204/2 04 86
info@pdlappsystems.de
www.pdlappsystems.de



Great Britain

Lapp Limited
Unit 3 Perivale Park
Horsenden Lane South
UB6 7RL Greenford Middlesex
Tel.: +44 20/87 58 78 00
Fax: +44 20/87 58 78 80
sales@lapplimited.com
www.lapplimited.com



Greece

Dimoulas Special Cables S.A.
100-102 Lenorman Str.
10444 Athens
Tel.: +30 21/05 15 76 10
Fax: +30 21/05 15 76 11
info@dimoulas.gr
www.dimoulas.gr



Hong Kong

Worldtex & Co.
Unit 11, 11/F, Tins Enterprises Centre
777 Lai Chi Kok Rd.
Cheung Sha Wan
Kowloon, Hong Kong
Tel.: +85 22/7 81 18 60
Fax: +85 22/7 81 47 33
info@worldtex-co.com.hk



Hungary

Lapp Austria GmbH m.k.k.
Neumann János u.1
2040 Budaörs
Tel.: +36 23 50/12 50
Fax: +36 23 50/12 59
sales@lappgroup.hu
www.lappgroup.hu



India

Lapp India Pvt. Ltd.
Plot No.98 J&K
Jigani Industrial Area
Phase II Anekal Taluk
562 106 Bangalore
Tel.: +91 80/7 82 60 00
Fax: +91 80/7 82 54 79
lappindia@ble.vsnl.net.in
www.lappindia.com



Indonesia

PT. JJ-LAPP Cable Indonesia
Graha INTI FAUZI, 7th Floor,
Jl. Buncit Raya
No. 22 Jakarta 12510, Indonesia
Tel.: +62 21/27 53 70 51
Fax: +62 21/27 53 70 52
sales_jjli@jjsea.com
www.jj-lappcable.com



Iran

Iran Technical Supply Co.
3rd Floor No. 141 Sohrevardi
Shomali Ave.
15589 Teheran
Tel.: +98 218/8 76 37 31
Fax: +98 218/8 76 95 36
info@itsco-ir.com
www.itsco-ir.com



Ireland

Lapp Limited
Unit 7, Park West Drive
Park West Business Park - Nangor
Road
Dublin 12
Tel.: +353 1/6 23 70 77
Fax: +353 1/6 23 70 78
sales@lapplimited.com
www.lapplimited.com



Iceland

Johan Rönning HF
Sundaborg 15
104 Reykjavik
Tel.: +354 5/20 08 00
Fax: +354 5/20 08 88
ronning@ronning.is
www.ronning.is



Israel

Arrow Control Cables Ltd.
7, Zavitán street
49950 Nehalim
Tel.: +972 3/9 07 48 87
Fax: +972 3/9 07 48 89
info@arrowcables.com
www.arrowcables.com



Italy

Lapp Italia s.r.l.
Via Lavoratori Autobianchi
1-Edificio 20
20033 Desio (Milano)
Tel.: +39 036/2 48 71
Fax: +39 036/2 48 73 30
lappitalia@lappitalia.it
www.lappitalia.it



Italy

Camuna Cavi s.r.l.
Via General Treboldi, 128
25048 Edolo (BS)
Tel.: +39 036/4 77 34 11
Fax: +39 036/4 77 01 20
info@camunacavi.it
www.camunacavi.it



Japan

K.Mecs Co., Ltd.
Headquarters Yusen Iwamotocho
Bldg. 3F
2-3-3 Iwamotocho, Chiyodaku
101-0032 Tokyo
Tel.: +81 3/58 25 53 33
Fax: +81 3/58 25 85 50
info@kmecs.co.jp
www.kmecs.com



Kazakhstan

Orion Kazakhstan
Mametojov 29/41
480003 Almaty
Tel.: +7 7272/79 89 28
Fax: +7 7272/71 08 71
office@orion-light.kz

The Lapp Group worldwide

SeaStarGroup

Off-22-23. Tengri Bldg 2, Azatyk Ave.
Opp KCS Bldg
465020 Atyrau
Tel.: +7 7122/32 04 27
Fax: +7 7122/32 12 54
sales@seastar.kz
www.seastar.kz

Korea

Lapp Korea Co., Ltd.
7F, SongWon Bldg.
92-2 Yuljun JangAn
SuWonCity, KyungGi
440-824 Korea
Tel.: +82 31/2 50 10 11
Fax: +82 31/2 50 10 19

Latvia

Lapp Miltronic SIA
Brivibas iela 155
1012 RIGA
Tel.: +371 7/50 19 00
Fax: +371 7/50 19 09
info@lappmiltronic.lv
www.miltronic.lv

Libya

Owya Company
Universal shipping agency
Ahmed Rafik Street
Third Floor
LY-Benghazi
Tel.: +218 61/9 08 07 79
Fax: +218 61/9 08 07 79
owya_sp@yahoo.com

Lithuania

LAPP Miltronic UAB
P. Vileisio 18N
LT-10306 Vilnius
Tel.: +370 5/2 78 03 90
Fax: +370 5/2 78 03 97
info@lappmiltronic.lt
www.lappmiltronic.lt

Macedonia

Siskon Doeel
Taskenska 4A
1000 Skopje
Tel.: +389 2/3 06 24 23
Fax: +389 2/3 06 12 50
siskon@mt.net.mk
www.siskon.com.mk

Malaysia

JJ-LAPP Cable (M) Sdn Bhd
16, Jalan 51A/225,
46100 Petaling Jaya Selangor,
Malaysia
Tel.: +603 7/8 61 62 88
Fax: +603 7/8 61 62 99
sales_jjlm@jjssea.com
www.jj-lappcable.com

Malta

G & E Electronics Ltd.
Genics Bldgs.
Giov. Papaffy Str.
B'KARA BKR 13
Tel.: +356 21/48 68 16
Fax: +356 21/49 71 03
info@gemalta.com
www.gemalta.com

Mexico

Lapp Mexico s de rl de C.V.
Metalurgia # 2730
Industrial El Alamo C.P.
44490 Tlaquepaque, Jalisco
Tel.: +52 33/36 66 02 50
Fax: +52 33/36 66 00 75
ventas@lappmexico.com
www.lappmexico.com

Republic of Moldova

Licuri srl
Bd. Moskova, 20
2045 mun. Chisinau
Tel.: +373 2/2 49 10 12
Fax: +373 2/2 40 47 77
lurie.gurschi@skynet.md

Mongolia

MCS International Co. Ltd.
MCS Anun centera
Khan-Uul districta
3rd khoroo
Ulaanbaatar
Tel.: +976 1/1 34 63 63
Fax: +976 1/1 34 60 30
batiko@mcs.mn
www.mcs.mn

Morocco

Lasamari
Energie & Produits S.A.R.L.
Rue Touki Ahmed No. 24
BD. HASSAN II
RESIDENCE OUROK
CASABLANCA
Tel.: +212 2226/3421 / 17
Fax: +212 2226/3421
Lep@menara.ma

New Zealand

Engineering Computer Services Ltd.
530 Te Rapa Road
P.O. Box 20204
Hamilton
Tel.: +64 7/8 49 22 11
Fax: +64 7/8 49 22 20
garry@lappgroup.co.nz
www.lappgroup.co.nz

Norway

Miltronic A/S
Eikveien 11
3036 Drammen
Tel.: +47 32/26 13 00
Fax: +47 32/2 61 39 90
info@miltronic.no
www.miltronic.no

Peru

Desimat Peru SA. C.
Av. Velasco Astete 2371
Surco-Lima 33
Tel.: +51 1/2 75 27 65
Fax: +51 1/2 75 27 76
ventas@desimat.com.pe
www.desimat.com.pe

Philippines

JJ-LAPP Cable (P) Inc
Serverina Diamond Industrial
Estate, West Service Road,
KM 16 South Expressway
1700 Paranaque City
Tel.: +632 7/86 75 66
Fax: +632 7/86 75 44
sales_jjlp@jjssea.com
www.jj-lappcable.com

Poland

Lapp Group Sp. z o.o.
ul. Wroclawska 33 D
55-095 Mirkow-Dlugoleka
Tel.: +48 71/3 30 63 00
Fax: +48 71/3 30 63 06
info@lappolska.pl
www.lappolska.pl

Portugal

Policabos S.A.
Soluções Técnicas de Condutores,
S.A.
Rua Maria Lamas, Lote 19 -
Bloco B - Piso 1
Parque Comercial Serra das Minas
2635-432 Rio de Mouro
Tel.: +351 21/9 17 86 40
Fax: +351 21/9 17 86 49
policabos@policabos.pt
www.policabos.pt

Rumania

Coelco Trade s.r.l.
Autostrada Bucuresti-Pitesti Km 13.5
Hala M
061076 Dragomiresti, Jud. Ilfov
Tel.: +40 21/4 11 96 21
Fax: +40 21/4 11 97 81
office@coelco.ro
www.coelco.ro

Russia

Lapp Russia OOO
Leninskaya St., 141
443041 Samara
Tel.: +7 8462/73 17 17
Fax: +7 8462/76 02 91
lapprussia@lapprussia.ru
www.lapprussia.ru

Serbia

Vesimpex d.o.o.
Petra Konjovica 12v,
Poslovnici centar- Rakovica, ulaz C
11000 Beograd
Tel.: +381 11/3 51 06 83
Fax: +381 11/3 51 06 85
info@vesimpex.co.yu
www.vesimpex.co.yu

Singapore

JJ-LAPP Cable (S) Pte Ltd
No.9 Tuas South St 3
Singapore 638017
Tel.: +65 6/5 08 62 00
Fax: +65 6/8 63 12 71
sales_jjls@jjssea.com
www.jj-lappcable.com

Slovakia

Lapp Slovensko s.r.o.
Piaristicka 2
94901 Nitra
Tel.: +421 37/6 57 80 97
Fax: +421 37/6 57 80 97
info@lappkabel.sk

Slovenia

FINEA TRADE d.o.o.
Limbuška cesta 2
2000 Maribor
Tel.: +386 2/4 21 35 55
Fax: +386 2/4 21 35 71
elektro@finea-trade.si
www.finea-trade.si

South Africa

Lapp Cable SA
51 Brunton Circle
Foundersview South Modderfontein
1645 Gauteng
Tel.: +27 11/2 01 32 00
Fax: +27 11/6 09 58 50
info@lappcable.co.za
www.lappcable.co.za

Spain

Lapp Group Espana S.L.U.
Avda. de les Garrigues, 34-36,
Poligono Mas Blau II, Nave 1
08820 El Prat de Llobregat
(Barcelona)
Tel.: +34 93/4 79 62 71
Fax: +34 93/4 79 62 72
info@lappkabel.es
www.lappkabel.es

Sweden

Miltronic AB
Kungshagsvägen 7
P.O. Box 1022
61129 Nyköping
Tel.: +46 15/57 77 00
Fax: +46 15/57 77 01
info@miltronic.se
www.miltronic.se

Fleximark AB

Kungshagsvägen 9
P.O. Box 1022
61129 Nyköping
Tel.: +46 15/57 77 90
Fax: +46 15/57 77 91
info@fleximark.se
www.fleximark.se

Switzerland

EPIC®
Bachofen AG
Ackerstraße 42
8610 Uster
Tel.: +41 44/9 44 11 11
Fax: +41 44/9 44 12 33
info@bachofen.ch
www.bachofen.ch

Volland AG

Ifangstrasse 103
8153 Rümlang
Tel.: +41 18/17 97 97
Fax: +41 18/17 97 00
info@volland.ch
www.volland.ch

Taiwan

DKSH Taiwan Ltd
Hanover High Tech Square
10F, #22, Lane 407, Sec. 2
Ti Ding Blvd
Nei Hu District, Taipei
Tel.: +886 2/87 52 66 66
Fax: +886 2/87 51 86 88
vincent.wu@dksh.com

Thailand

JJ-LAPP Cable (T) Ltd
23/110-117 Sorachai Building
25-29th FL
Soi Sukhumvit 63 (Ekamai),
Sukhumvit Road, Klongton Nua,
Wattana, Bangkok 10110,
Thailand
Tel.: +66 2/7 87 82 88
Fax: +66 2/7 87 82 99
sales_jjt@jjssea.com
www.jj-lappcable.com

Turkey

LAPP KABLO Sa.ve.Tic.Ltd.Sti.
Atatürk Bulvarı Ayanoglu Is
merk. No.1
34758 Atasehir-Kadiköy-Istanbul
Tel.: +90 216/4 56 56 99
Fax: +90 216/4 56 56 89
info@lapp.com.tr
www.lapp.com.tr

Ukraine

Lapp Ukraine LLC
201 - 203, Kharkivske shose
02121 Kiev
Tel.: +38 44/4 95 60 00
Fax: +38 44/4 90 76 30
info@lappukraine.com
www.lappukraine.com

United Arab Emirates

Lapp Middle East FZE
P.O.Box 18454
Dubai
Tel.: +971 4/8 86 07 44
Fax: +971 4/8 86 07 42
lappme@lappgroup.com
www.lappgroup.com

Uruguay

Reprinter Ltda.
Calle Dublin 2030
11500 Montevideo
Tel.: +598 2/6 00 73 43
Fax: +598 2/6 00 86 58
reprinter@multi.com.uy

USA

Lapp U.S.A., Inc.
29, Hanover Road
Florham Park, NJ 07932
Tel.: +1 973/6 60 97 00
Fax: +1 973/6 60 97 91
sales@lappusa.com
www.lappusa.com

Lapp Tannehill, Inc.

8675 Eagle Creek Parkway Suite 900
MN55378 Savage
Tel.: +1 952/8 81 67 00
Fax: +1 952/8 81 07 43
sales@lapptannehill.com
www.kltannehill.com

Uzbekistan

Elektro-Potential LLC
2b,G.Mavlyanov str.
100084 Tashkent
Tel.: +99 898/3 00 38 21
Fax: +99 871/1 24 92 86
mz1958@yandex.ru

Venezuela

Somerinca C.A.
3era Transversal Dos Caminos
Quinta Corazon de Jesus
1070 Caracas
Tel.: +58 212/2 37 30 03
Fax: +58 212/2 39 93 41
klocmoeller@cantv.net

Vietnam

JJ-LAPP Cable (S) Pte Ltd Vietnam Rep. Office
Melinh Point Tower, Unit 906, 9th
Floor,
2 Ngo Duc Ke St, Dist.1
Ho Chi Minh City
Tel.: +84 8/4 10 34 30
Fax: +84 8/4 10 34 29
sales_jjlv@jjssea.com
www.jj-lappcable.com

You will find our actual
contact details at

www.lappgroup.com/worldwide

Special applications

Light & Sound technology

ÖLFLEX® STAGE BK

The new developed multicore for event companies



Info

- The perfect multicore cable
- Suitable for outdoor use

Benefits

- Additional application due to outdoor use
- Good flexibility - easy installation with tight space requirements
- Flexible down to -30°C
- Easy to wind for mobile use.
- No core left

Application range

- Connecting and control cable usable for stage technique (Multicore) with a black outer sheath.
- Cable is developed especially for circuits for lighting technology

Product features

- Flame retardant according to IEC 60332-1-2

Approvals (Norm references)



Design

- Stranded, fine wire in accordance with VDE 0295, Class 5 / IEC 60228 Cl. 5
- Core insulation: PVC-based, cold flexible
- Cores twisted in layers
- Outer sheath of cold flexible special PVC based compound in black

Technical data



Core identification code

Black cores with white numbers plus green/yellow protective conductor



Based on

HD 21.13 S1; VDE 0281 Part 13



Conductor stranding

Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5



Minimum bending radius

Fixed installation: 4 x cable diameter
Flexing: 15 x outer diameter



Rated voltage

U₀/U: 300/500 V



Test voltage

4000 V



Range of temperature

Flexing: -30°C up to +70°C
Fixed installation: -40°C up to +80°C

Part number	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Copper index kg/km approx.	Weight kg/km approx.
3036877	13G1,5	13.2	187.6	325.0
3036878	17G1,5	14.8	244.6	407.0
3036879	13G2,5	16.3	312.0	482.0
3036880	17G2,5	18.2	408.0	639.0

Copper price basis: EUR 150 / 100 kg

Standard lengths: (100; 500; 1000) m

Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum

Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Comparable products

- ÖLFLEX® STAGE BK pre-made see page 11
- ÖLFLEX® CLASSIC 110 BLACK 0,6/1kV
- ÖLFLEX® CLASSIC 110



ÖLFLEX® STAGE BK pre-made

The new developed multicore for event companies



Info

- The perfect multicore cable
- Suitable for outdoor use
- Ready to use



Benefits

- Additional application due to outdoor use
- Good flexibility - easy installation with tight space requirements
- Flexible down to -30°C
- Easy to wind for mobile use.
- No core loss

Application range

- Connecting and control cable usable for stage technique (Multicore) with a black outer sheath.
- Cable is developed especially for circuits for lighting technology

Product features

- Flame retardant according to IEC 60332-1-2

Approvals (Norm references)



Design

- Stranded, fine wire in accordance with VDE 0295, Class 5 / IEC 60228 Cl. 5
- Core insulation: PVC-based, cold flexible
- Black cores with white numbers plus green / yellow protective conductor
- Cores twisted in layers
- Outer sheath of cold flexible special PVC based compound in black

Technical data

- Core identification code**
Black cores with white numbers plus green / yellow protective conductor
- Based on**
HD 21.13 S1; VDE 0281 Part 13
- Insulation contact resistance**
>10 MOhm x km
- Conductor stranding**
Fine wire according to VDE 0295 Class 5 / IEC 60228 Class 5
- Minimum bending radius**
Fixed installation: 4 x cable diameter
Flexing: 15 x outer diameter
- Rated voltage**
U₀/U: 300/500 V
- Test voltage**
4000 V
- Range of temperature**
Flexing: -30°C up to +70°C
Fixed installation: -40°C up to +80°C

Part number	Cable	Number of cores and mm² per conductor	Length in m	Connector / end 1	Connector / end 2	Weight kg/piece	PU
ÖLFLEX® STAGE BK 13G1,5							
74400720	3036877	13 G 1.5	2.5	EPIC® 16 pole M	EPIC® 16 pole F	1.0	1
74400721	3036877	13 G 1.5	5.0	EPIC® 16 pole M	EPIC® 16 pole F	1.6	1
74400722	3036877	13 G 1.5	10.0	EPIC® 16 pole M	EPIC® 16 pole F	3.3	1
74400723	3036877	13 G 1.5	15.0	EPIC® 16 pole M	EPIC® 16 pole F	5.0	1
74400724	3036877	13 G 1.5	20.0	EPIC® 16 pole M	EPIC® 16 pole F	6.5	1
74400725	3036877	13 G 1.5	30.0	EPIC® 16 pole M	EPIC® 16 pole F	9.8	1
ÖLFLEX® STAGE BK 17G1,5							
74400726	3036878	17 G 1.5	2.5	EPIC® 16 pole M	EPIC® 16 pole F	1.0	1
74400727	3036878	17 G 1.5	5.0	EPIC® 16 pole M	EPIC® 16 pole F	2.0	1
74400728	3036878	17 G 1.5	10.0	EPIC® 16 pole M	EPIC® 16 pole F	4.1	1
74400729	3036878	17 G 1.5	15.0	EPIC® 16 pole M	EPIC® 16 pole F	6.1	1
74400730	3036878	17 G 1.5	20.0	EPIC® 16 pole M	EPIC® 16 pole F	8.2	1
74400731	3036878	17 G 1.5	30.0	EPIC® 16 pole M	EPIC® 16 pole F	12.2	1
ÖLFLEX® STAGE BK 13G2,5							
74400732	3036879	13 G 2.5	2.5	EPIC® 16 pole M	EPIC® 16 pole F	1.2	1
74400733	3036879	13 G 2.5	5.0	EPIC® 16 pole M	EPIC® 16 pole F	3.2	1
74400734	3036879	13 G 2.5	10.0	EPIC® 16 pole M	EPIC® 16 pole F	4.9	1
74400735	3036879	13 G 2.5	15.0	EPIC® 16 pole M	EPIC® 16 pole F	7.2	1
74400736	3036879	13 G 2.5	20.0	EPIC® 16 pole M	EPIC® 16 pole F	9.6	1
74400737	3036879	13 G 2.5	30.0	EPIC® 16 pole M	EPIC® 16 pole F	14.5	1
ÖLFLEX® STAGE BK 17G2,5							
74400738	3036879	17 G 2.5	2.5	EPIC® 16 pole M	EPIC® 16 pole F	1.6	1
74400739	3036879	17 G 2.5	5.0	EPIC® 16 pole M	EPIC® 16 pole F	3.2	1
74400740	3036879	17 G 2.5	10.0	EPIC® 16 pole M	EPIC® 16 pole F	6.4	1
74400741	3036879	17 G 2.5	15.0	EPIC® 16 pole M	EPIC® 16 pole F	9.6	1
74400742	3036879	17 G 2.5	20.0	EPIC® 16 pole M	EPIC® 16 pole F	12.8	1
74400743	3036879	17 G 2.5	30.0	EPIC® 16 pole M	EPIC® 16 pole F	19.2	1

Copper price basis: including
Packaging size: Coil
Further types on request

Comparable products

- ÖLFLEX® CLASSIC 110 black pre-made
- ÖLFLEX® CLASSIC 110 pre-made



Wide range use

PVC sheath and coloured cores

ÖLFLEX® CLASSIC 100 BK POWER 0,6/1kV



Info

- Down to -30°C

Benefits

- Space saving installation due to small cable diameters
- High electrical performance due to 4kV test voltage

Application range

- Plant engineering and construction
- Industrial machinery
- Air conditioning installations
- Paint-spray lines
- Stage technology
- Fixed installation as well as occasional flexing at free, non-continuously recurring movement without tensile load
- Outdoor use suitable considering the temperature range

- Suitable for direct burial

Product features

- Flame retardant according to IEC 60332-1-2
- UV resistant and weather proof
- Flexible down to -30°C

Approvals (Norm references)



Design

- Fine strands of bare copper wires
- Core insulation: PVC, cold-resistant
- PVC outer sheath, cold-resistant, black (RAL 9005)

Technical data

- Core identification code**
Up to 5 cores: According to VDE 0293-308 Appendix T9)
Starting at 6 cores: ÖLFLEX® colour code see Appendix T 7
- Specific insulation resistance**
> 20 GOhm x cm
- Conductor stranding**
Fine wire in accordance to VDE 0295 Class 5 / IEC 60228 Class 5
- Minimum bending radius**
Occasional flexing: 15 x cable diameter
Fixed installation: 4 x cable diameter
- Rated voltage**
U_i/U: 600/1000 V
- Test voltage**
4000 V
- Protective conductor**
G = with protective conductor GN/YE
X = without protective conductor
- Range of temperature**
Occasional flexing: -30°C up to +70°C
Fixed installation: -40°C up to +80°C

Part number	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
ÖLFLEX® CLASSIC 100 BK POWER 0,6/1 kV				
1120450	2 X 0.5	7.9	9.6	56
1120451	3 G 0.5	8.2	14.4	68
1120452	4 G 0.5	8.8	19.2	100
1120453	5 G 0.5	9.4	24.0	117
1120454	7 G 0.5	10.1	34.0	138
1120455	12 G 0.5	12.5	58.0	200
1120456	2 X 1	8.6	19.2	98
1120457	3 G 1	9.0	29.0	112
1120458	4 G 1	9.6	38.0	131
1120459	5 G 1	10.4	48.0	152
1120460	7 G 1	11.1	67.0	196
1120461	12 G 1	14.0	115.0	286
1120462	2 X 1.5	9.6	29.0	123
1120463	3 G 1.5	10.1	43.0	144
1120464	4 G 1.5	10.8	58.0	170
1120465	5 G 1.5	11.7	72.0	199
1120466	7 G 1.5	12.6	101.0	261
1120467	12 G 1.5	16.1	173.0	399
1120468	2 X 2.5	10.8	48.8	147
1120469	3 G 2.5	11.3	72.0	182
1120470	4 G 2.5	12.2	96.0	225
1120471	5 G 2.5	13.3	120.0	266
1120472	7 G 2.5	14.4	168.0	354
1120473	12 G 2.5	18.7	288.0	540
1120474	4 G 4	13.8	154.0	324
1120475	4 G 6	15.1	230.0	442
1120476	4 G 10	18.7	384.0	707
1120477	4 G 16	21.3	614.0	1,100
1120478	4 G 25	26.2	960.0	1,600
1120479	4 G 35	29.1	1,344.0	2,400
1120480	4 G 50	35.6	1,920.0	3,400
1120481	4 G 70	40.7	2,688.0	5,050
1120482	4 G 95	46.8	3,648.0	6,010
1120483	4 G 120	53.5	4,608.0	7,500

Copper price basis: EUR 150 / 100 kg
 Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
 Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum
 Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)
 Further sizes as well as screened types on request

Comparable products

- ÖLFLEX® CLASSIC 130 H BK 0,6/1kV
- ÖLFLEX® CLASSIC 110 BLACK 0,6/1kV see page 16

Accessories

- Stainless steel - Box Starter - Set
- SKINTOP® MS-M see page 56

ÖLFLEX® CLASSIC 110



Info

- VDE certificate of conformity with factory surveillance



Benefits

- Space saving installation due to small cable diameters
- High electrical performance due to 4kV test voltage

Application range

- Plant engineering and construction
Industrial machinery
Air conditioning installations
Power station
Stage technique
- Fixed installation as well as occasional flexing at free, non-continuously recurring movement without tensile load
- Dry or damp interiors under medium mechanical load conditions

Product features

- Flame retardant according to IEC 60332-1-2
- Good chemical resistance see Appendix T1

Approvals (Norm references)



Design

- Fine strands of bare copper wires
- PVC insulation LAPP P8/1
- Cores twisted in layers
- PVC outer sheath, grey (RAL 7001)

Technical data

- Core identification code**
Black with white numbers acc. to VDE 0293
- Specific insulation resistance**
> 20 GOhm x cm
- Conductor stranding**
Fine wire in accordance to VDE 0295
Class 5 / IEC 60228 Class 5
- Minimum bending radius**
Occasional flexing: 15 x cable diameter
Fixed installation: 4 x cable diameter
- Rated voltage**
U₀/U: 300/500 V
- Test voltage**
4000 V
- Protective conductor**
G = with protective conductor GN/YE
X = without protective conductor
- Range of temperature**
Occasional flexing: -5°C up to +70°C
Fixed installation: -40°C up to +80°C
- VDE tested**
VDE Reg. No. 7030 for sizes up to and including 60 cores

Part number	Number of cores and mm ² per conductor	Available as standard length only (*)	Standard lengths, meter							Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
			25	50	100	200	300	500	1000			
ÖLFLEX® CLASSIC 110; U₀/U: 300/500 V												
1119752	2 X 0.5	•			100	200	300	500	1000	4.8	9.6	35
1119003	3 G 0.5	•			100	200	300	500	1000	5.1	14.4	42
1119753	3 X 0.5	•			100	200	300	500	1000	5.1	14.4	42
1119004	4 G 0.5	•			100	200	300	500	1000	5.7	19.2	54
1119754	4 X 0.5	•			100	200	300	500	1000	5.7	19.2	54
1119005	5 G 0.5	•			100	200	300	500	1000	6.2	24.0	63
1119755	5 X 0.5	•			100	200	300	500	1000	6.2	24.0	63
1119007	7 G 0.5	•		50	100	200	300	500	1000	6.7	33.6	81
1119757	7 X 0.5	•		50	100	200	300	500	1000	6.7	33.6	81
1119010	10 G 0.5	•		50	100	200	300	500	1000	8.6	48.0	116
1119012	12 G 0.5	•		50	100	200	300	500	1000	8.9	58.0	131
1119014	14 G 0.5	•		50	100			500	1000	9.5	67.0	153
1119018	18 G 0.5	•		50	100			500	1000	10.5	86.4	188
1119021	21 G 0.5	•		50	100			500	1000	11.7	101.0	221
1119025	25 G 0.5	•		50	100			500	1000	12.4	120.0	261
1119030	30 G 0.5	•		50	100			500	1000	13.3	144.0	304
1119035	35 G 0.5	•		50	100			500	1000	14.5	168.0	256
1119040	40 G 0.5	•		50	100			500	1000	15.4	192.0	400
1119052	52 G 0.5	•		50	100			500		17.3	250.0	517
1119061	61 G 0.5	•		50	100			500		18.5	293.0	603
1119065	65 G 0.5	•		50	100			500		19.6	312.0	644
1119080	80 G 0.5	•		50	100			500		21.1	384.0	780
1119100	100 G 0.5	•		50	100			500		23.6	480.0	975
1119802	2 X 0.75	•			100	200	300	500	1000	5.4	14.4	45
1119103	3 G 0.75	•			100	200	300	500	1000	5.7	21.6	55
1119803	3 X 0.75	•			100	200	300	500	1000	5.7	21.6	55
1119104	4 G 0.75	•			100	200	300	500	1000	6.2	28.8	66
1119804	4 X 0.75	•			100	200	300	500	1000	6.2	28.8	66
1119105	5 G 0.75	•		50	100	200	300	500	1000	6.7	36.0	79
1119805	5 X 0.75	•		50	100	200	300	500	1000	6.7	36.0	79
1119107	7 G 0.75	•		50	100	200	300	500	1000	7.3	50.0	101
1119807	7 X 0.75	•		50	100	200	300	500	1000	7.3	50.0	101
1119109	9 G 0.75	•		50	100	200	300	500	1000	9.4	65.0	137
1119110	10 G 0.75	•		50	100	200	300	500	1000	9.6	72.0	150
1119112	12 G 0.75	•		50	100	200	300	500	1000	9.9	86.0	171
1119812	12 X 0.75	•		50	100	200	300	500	1000	9.9	86.0	171
1119115	15 G 0.75	•		50	100			500	1000	10.9	108.0	209
1119117	15 X 0.75	•		50	100			500	1000	10.9	108.0	209
1119116	16 G 0.75	•		50	100			500	1000	11.1	115.2	220
1119118	18 G 0.75	•		50	100			500	1000	11.7	130.0	244
1119121	21 G 0.75	•		50	100			500	1000	13.0	151.0	286
1119125	25 G 0.75	•		50	100			500	1000	13.8	180.0	337
1119126	26 G 0.75	•		50	100			500	1000	14.2	187.2	350
1119134	34 G 0.75	•		50	100			500	1000	15.9	245.0	448
1119141	41 G 0.75	•		50	100			500	1000	17.4	296.0	538
1119150	50 G 0.75	•		50	100			500		19.2	360.0	648
1119151	51 G 0.75	•		50	100			500		19.2	367.0	646
1119161	61 G 0.75	•		50	100			500		20.5	439.0	779
1119165	65 G 0.75	•		50	100			500		21.8	468.0	832
1119180	80 G 0.75	•		50	100			500		23.6	576.0	1,019
1119200	100 G 0.75	•		50	100			500		26.4	718.0	1,271
1119852	2 X 1	•			100	200	300	500	1000	5.7	19.2	53
1119203	3 G 1	•			100	200	300	500	1000	6.0	28.8	65
1119853	3 X 1	•			100	200	300	500	1000	6.0	28.8	65



Powercore ÖLFLEX CLASSIC 110 with 16pol. EPIC-Connectors



Info

- Ready to use



Benefits

- Ready to use

Application range

- Power cores are used for electric power supply of spotlights in applications of event technology

Product features

- Technical Specifications are listed at the component parts and in the main catalogue or the webcatalogue
- Customer specific cable-length and variations on request

Approvals (Norm references)

- Our power cables are produced according to the current standard DIN 15568 "multicore systems for film and TV-production studios"

Design

- We use our ÖLFLEX® CLASSIC 110 cable, which is very common in applications for event technology
- Depending on the type of cable (14 cores or 18 cores) pole, it's possible to support 6 or 8 electric circuits with one cable
- At both ends of the cable we use EPIC® hoods without levers with 16pole inserts

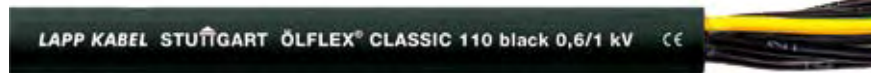
Part number	Cable	Number of cores and mm² per conductor	Length in m	Connector / end 1	Connector / end 2	Weight kg/piece approx.	Pieces / PU
ÖLFLEX 110 with 16 pol. EPIC connector, brass cable gland							
74400340	1119314	14 G 1.5	2.5	EPIC® 16 pole M	EPIC® 16 pole F	1.3	1
74400341	1119314	14 G 1.5	5.0	EPIC® 16 pole M	EPIC® 16 pole F	2.1	1
74400342	1119314	14 G 1.5	10.0	EPIC® 16 pole M	EPIC® 16 pole F	3.7	1
74400343	1119314	14 G 1.5	15.0	EPIC® 16 pole M	EPIC® 16 pole F	5.4	1
74400344	1119314	14 G 1.5	20.0	EPIC® 16 pole M	EPIC® 16 pole F	7.0	1
74400345	1119314	14 G 1.5	30.0	EPIC® 16 pole M	EPIC® 16 pole F	10.2	1
ÖLFLEX 110 with 16 pol. EPIC connector, brass cable gland							
74400350	1119414	14 G 2.5	2.5	EPIC® 16 pole M	EPIC® 16 pole F	1.8	1
74400351	1119414	14 G 2.5	5.0	EPIC® 16 pole M	EPIC® 16 pole F	3.1	1
74400352	1119414	14 G 2.5	10.0	EPIC® 16 pole M	EPIC® 16 pole F	5.7	1
74400353	1119414	14 G 2.5	15.0	EPIC® 16 pole M	EPIC® 16 pole F	8.2	1
74400354	1119414	14 G 2.5	20.0	EPIC® 16 pole M	EPIC® 16 pole F	10.8	1
74400355	1119414	14 G 2.5	30.0	EPIC® 16 pole M	EPIC® 16 pole F	16.0	1
ÖLFLEX 110 with 16 pol. EPIC connector, brass cable gland							
74400360	1119318	18 G 1.5	2.5	EPIC® 16 pole M	EPIC® 16 pole F	1.5	1
74400361	1119318	18 G 1.5	5.0	EPIC® 16 pole M	EPIC® 16 pole F	2.5	1
74400362	1119318	18 G 1.5	10.0	EPIC® 16 pole M	EPIC® 16 pole F	4.6	1
74400363	1119318	18 G 1.5	15.0	EPIC® 16 pole M	EPIC® 16 pole F	6.6	1
74400364	1119318	18 G 1.5	20.0	EPIC® 16 pole M	EPIC® 16 pole F	8.6	1
74400365	1119318	18 G 1.5	30.0	EPIC® 16 pole M	EPIC® 16 pole F	12.7	1
ÖLFLEX 110 with 16 pol. EPIC connector, brass cable gland							
74400370	1119418	18 G 2.5	2.5	EPIC® 16 pole M	EPIC® 16 pole F	2.1	1
74400371	1119418	18 G 2.5	5.0	EPIC® 16 pole M	EPIC® 16 pole F	3.7	1
74400372	1119418	18 G 2.5	10.0	EPIC® 16 pole M	EPIC® 16 pole F	7.0	1
74400373	1119418	18 G 2.5	15.0	EPIC® 16 pole M	EPIC® 16 pole F	10.2	1
74400374	1119418	18 G 2.5	20.0	EPIC® 16 pole M	EPIC® 16 pole F	13.5	1
74400375	1119418	18 G 2.5	30.0	EPIC® 16 pole M	EPIC® 16 pole F	19.9	1



Wide range use

PVC sheath and numbered cores

ÖLFLEX® CLASSIC 110 BLACK 0,6/1kV



Info

- Suitable for outdoor applications

Benefits

- High electrical performance due to 4kV test voltage

Application range

- Plant engineering and construction
 - Industrial machinery
 - Air conditioning installations
 - Power station
 - Stage technique
- Fixed installation as well as occasional flexing at free, non-continuously recurring movement without tensile load
- Outdoor use suitable considering the temperature range

- Suitable for direct burial

Product features

- Flame retardant according to IEC 60332-1-2
- UV resistant and weather proof

Approvals (Norm references)



Design

- Fine strands of bare copper wires
- PVC insulation LAPP P8/1
- PVC outer sheath, black (RAL 9005)

Technical data

- Core identification code**
Black with white numbers acc. to VDE 0293
- Based on**
Cores accordance to VDE 0281 (H07V-K)
Sheath according to Italian standard CEI-UNEL 35755 + 35756
- Specific insulation resistance**
> 20 GOhm x cm
- Conductor stranding**
Fine wire in accordance to VDE 0295
Class 5 / IEC 60228 Class 5
- Minimum bending radius**
Occasional flexing: 15 x cable diameter
Fixed installation: 4 x cable diameter
- Rated voltage**
U₀/U: 600/1000 V
- Test voltage**
4000 V
- Protective conductor**
G = with protective conductor GN/YE
X = without protective conductor
- Range of temperature**
Occasional flexing: -5°C up to +70°C
Fixed installation: -40°C up to +80°C

Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
ÖLFLEX® CLASSIC 110 BK U0/U: 600/1000 V				
1120232	2 X 0.75	8.3	14.4	81
1120233	3 G 0.75	8.7	21.6	93
1120234	3 X 0.75	8.7	21.6	93
1120235	4 G 0.75	9.2	29.0	108
1120237	5 G 0.75	9.9	36.0	126
1120241	7 G 0.75	10.7	51.0	162
1120248	12 G 0.75	13.4	86.0	236
1120251	18 G 0.75	15.4	130.0	334
1120259	41 G 0.75	21.6	296.0	713
1120266	2 X 1	8.6	19.2	98
1120267	3 G 1	9.0	29.0	112
1120268	3 X 1	9.0	29.0	112
1120269	4 G 1	9.6	38.4	131
1120270	4 X 1	9.6	38.4	131
1120271	5 G 1	10.4	48.0	152
1120274	7 G 1	11.1	67.0	196
1120280	12 G 1	14.0	115.0	286
1120284	18 G 1	16.1	173.0	419
1120290	25 G 1	18.6	240.0	572
1120294	34 G 1	21.3	326.0	764
1120298	41 G 1	23.2	394.0	891
1120306	2 X 1.5	9.6	29.0	123
1120307	3 G 1.5	10.1	43.0	144
1120308	3 X 1.5	10.1	43.0	144
1120309	4 G 1.5	10.8	58.0	170
1120311	5 G 1.5	11.7	72.0	199
1120314	7 G 1.5	12.6	101.0	261
1120320	12 G 1.5	16.1	173.0	399
1120322	14 G 1.5	17.0	202.0	372
1120324	18 G 1.5	18.8	259.0	547
1120328	25 G 1.5	21.7	360.0	770

Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
1120330	34 G 1.5	24.9	490.0	996
1120333	50 G 1.5	29.8	720.0	1,427
1120339	2 X 2.5	10.8	48.0	147
1120340	3 G 2.5	11.3	72.0	182
1120342	4 G 2.5	12.2	96.0	225
1120343	4 X 2.5	12.2	96.0	225
1120344	5 G 2.5	13.3	120.0	266
1120346	7 G 2.5	14.4	168.0	354
1120349	12 G 2.5	18.7	288.0	540
1120350	14 G 2.5	19.8	336.0	542
1120351	18 G 2.5	22.0	432.0	788
1120353	25 G 2.5	25.8	600.0	1,094
1120360	4 G 4	13.8	154.0	324
1120361	5 G 4	15.1	192.0	385
1120362	7 G 4	16.4	269.0	513
1120366	4 G 6	15.1	230.0	442
1120367	5 G 6	16.8	288.0	526
1120368	7 G 6	18.2	403.0	705
1120370	4 G 10	18.7	384.0	707
1120371	5 G 10	20.7	480.0	881
1120374	4 G 16	21.3	614.0	1,100
1120375	5 G 16	23.6	768.0	1,600
1120376	7 G 16	26.2	1,075.0	1,890
1120378	4 G 25	26.2	960.0	1,600
1120379	5 G 25	29.0	1,200.0	2,050
1120382	4 G 35	29.1	1,344.0	2,400
1120383	5 G 35	32.5	1,680.0	2,900
1120385	4 G 50	35.6	1,920.0	3,400
1120387	4 G 70	40.7	2,688.0	5,050
1120389	4 G 95	46.8	3,648.0	6,010
1120390	4 G 120	53.5	4,608.0	7,500

Copper price basis: EUR 150 / 100 kg
 Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
 Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum
 Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Comparable products

- ÖLFLEX® CLASSIC 100 BK POWER 0,6/1kV see page 12
- ÖLFLEX® CLASSIC 130 H BK 0,6/1kV

Accessories

- SKINTOP® MS-M see page 56
- Cable shears KT 4 and KT 5

Powercore ÖLFLEX CLASSIC 110 BK with 16pol. EPIC-Connectors



Info

- Ready to use



Benefits

- Ready to use

Application range

- Power cores are used for electric power supply of spotlights in applications of event technology

Product features

- Technical Specifications are listed at the component parts and in the main catalogue or the webcatalogue
- Customer specific cable-length and variations on request

Approvals (Norm references)

- Our power cables are produced according to the current standard DIN 15568 "multicore systems for film and TV-production studios"

Design

- We use our ÖLFLEX® CLASSIC 110 cable, which is very common in applications for event technology
- Depending on the type of cable (14 cores or 18 cores) pole, it's possible to support 6 or 8 electric circuits with one cable
- At both ends of the cable we use EPIC® hoods without levers with 16pole inserts

Part number	Cable	Number of cores and mm ² per conductor	Length in m	Connector / end 1	Connector / end 2	Weight kg/km approx.	Pieces / PU
74400300	1120322	14 G 1.5	2.5	EPIC® 16 pole M	EPIC® 16 pole F	1.6	1
74400301	1120322	14 G 1.5	5.0	EPIC® 16 pole M	EPIC® 16 pole F	2.7	1
74400302	1120322	14 G 1.5	10.0	EPIC® 16 pole M	EPIC® 16 pole F	5.0	1
74400303	1120322	14 G 1.5	15.0	EPIC® 16 pole M	EPIC® 16 pole F	7.2	1
74400304	1120322	14 G 1.5	20.0	EPIC® 16 pole M	EPIC® 16 pole F	9.5	1
74400305	1120322	14 G 1.5	30.0	EPIC® 16 pole M	EPIC® 16 pole F	13.9	1
74400310	1120350	14 G 2.5	2.5	EPIC® 16 pole M	EPIC® 16 pole F	1.9	1
74400311	1120350	14 G 2.5	5.0	EPIC® 16 pole M	EPIC® 16 pole F	3.2	1
74400312	1120350	14 G 2.5	10.0	EPIC® 16 pole M	EPIC® 16 pole F	5.9	1
74400313	1120350	14 G 2.5	15.0	EPIC® 16 pole M	EPIC® 16 pole F	8.6	1
74400314	1120350	14 G 2.5	20.0	EPIC® 16 pole M	EPIC® 16 pole F	11.3	1
74400315	1120350	14 G 2.5	30.0	EPIC® 16 pole M	EPIC® 16 pole F	16.8	1
74400320	1120324	18 G 1.5	2.5	EPIC® 16 pole M	EPIC® 16 pole F	1.9	1
74400321	1120324	18 G 1.5	5.0	EPIC® 16 pole M	EPIC® 16 pole F	3.2	1
74400322	1120324	18 G 1.5	10.0	EPIC® 16 pole M	EPIC® 16 pole F	6.0	1
74400323	1120324	18 G 1.5	15.0	EPIC® 16 pole M	EPIC® 16 pole F	8.7	1
74400324	1120324	18 G 1.5	20.0	EPIC® 16 pole M	EPIC® 16 pole F	11.4	1
74400325	1120324	18 G 1.5	30.0	EPIC® 16 pole M	EPIC® 16 pole F	16.9	1
74400330	1120351	18 G 2.5	2.5	EPIC® 16 pole M	EPIC® 16 pole F	2.5	1
74400331	1120351	18 G 2.5	5.0	EPIC® 16 pole M	EPIC® 16 pole F	4.4	1
74400332	1120351	18 G 2.5	10.0	EPIC® 16 pole M	EPIC® 16 pole F	8.4	1
74400333	1120351	18 G 2.5	15.0	EPIC® 16 pole M	EPIC® 16 pole F	12.3	1
74400334	1120351	18 G 2.5	20.0	EPIC® 16 pole M	EPIC® 16 pole F	16.3	1
74400335	1120351	18 G 2.5	30.0	EPIC® 16 pole M	EPIC® 16 pole F	24.1	1

Wide range use

Halogen-free

ÖLFLEX® CLASSIC 110 H

VDE certified characteristics



Info

- New improved version !
- High flexibility and oil resistance

Application range

- Public buildings
- Airport, railway station
- Plant engineering and construction
Industrial machinery
Air conditioning installations
Stage technique
- Particularly where human and animal life as well as valuable property are exposed to high risk of fire hazards

- Halogen-free according to IEC 60754-1 (amount of halogen acid gas)
Corrosiveness of combustion gases according to IEC 60754-2 (degree of acidity)
- Low smoke density acc. to IEC 61034
- Oil resistant acc. to VDE 0473 part 811-2-1 and UL OIL RES I and UL OIL RES II

Approvals (Norm references)



Product features

- Flame retardant according to IEC 60332-1-2 (flame spread on single cable)
- No flame propagation acc. to IEC 60332-3-24 respectively IEC 60332-3-25 (Flame spread on vertical cable or wire bundle)

Design

- Fine strands of bare copper wires
- Core insulation: Halogen-free
- Special blended halogen-free outer sheath grey (RAL 7001)

Technical data

- Core identification code**
Black with white numbers acc. to VDE 0293
- Based on**
HD 21.13 S1; VDE 0281 Part 13
HD 21.5; VDE 0281 Part 5
- Specific insulation resistance**
> 20 GOhm x cm
- Conductor stranding**
Fine wire in accordance to VDE 0295
Class 5 / IEC 60228 Class 5
- Minimum bending radius**
Occasional flexing: 10 x cable diameter
Fixed installation: 4 x cable diameter
- Rated voltage**
U₀/U: 300/500 V
- Test voltage**
4000 V
- Protective conductor**
G = with protective conductor GN/YE
X = without protective conductor
- Range of temperature**
Occasional flexing: -30°C up to +70°C
Fixed installation: -40°C up to +80°C

Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
ÖLFLEX® CLASSIC 110 H U0/U: 300/500 V				
10019900	2 X 0.5	4.9	9.6	41
10019901	3 G 0.5	5.2	14.4	49
10019902	3 X 0.5	5.2	14.4	49
10019903	4 G 0.5	5.8	19.2	58
10019904	4 X 0.5	5.8	19.2	58
10019905	5 G 0.5	6.3	24.0	69
10019906	7 G 0.5	6.9	33.6	87
10019907	12 G 0.5	9.1	57.6	141
10019910	2 X 0.75	5.5	14.4	51
10019911	3 G 0.75	5.8	21.6	61
10019912	3 X 0.75	5.8	21.6	61
10019913	4 G 0.75	6.3	28.8	73
10019914	4 X 0.75	6.3	28.8	73
10019915	5 G 0.75	6.9	36.0	87
10019916	5 X 0.75	6.9	36.0	87
10019917	7 G 0.75	7.5	50.4	111
10019918	7 X 0.75	7.5	50.4	111
10019919	9 G 0.75	9.6	64.8	150
10019920	12 G 0.75	10.1	86.4	186
10019921	18 G 0.75	12.0	129.6	265
10019922	25 G 0.75	14.1	180.0	365
10019960	2 X 1	5.8	19.2	59
10019961	3 G 1	6.1	28.8	72
10019962	3 X 1	6.1	28.8	72
10019963	4 G 1	6.6	38.4	87
10019964	4 X 1	6.6	38.4	87
10019965	5 G 1	7.3	48.0	104
10019967	7 G 1	8.1	67.2	138
10019968	8 G 1	9.7	76.8	164
10019969	12 G 1	10.7	115.2	225
10019970	14 G 1	11.4	134.4	261
10019971	18 G 1	12.9	172.8	328
10019972	25 G 1	15.0	240.0	445

Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
10019973	41 G 1	19.2	393.6	719
10019930	2 X 1.5	6.4	28.8	76
10019931	3 G 1.5	6.8	43.2	94
10019980	3 X 1.5	6.8	43.2	94
10019932	4 G 1.5	7.4	57.6	115
10019933	5 G 1.5	8.3	72.0	142
10019934	7 G 1.5	9.0	100.8	184
10019981	8 G 1.5	10.8	115.2	218
10019982	9 G 1.5	11.6	129.6	245
10019935	12 G 1.5	12.2	172.8	308
10019936	14 G 1.5	13.0	201.6	357
10019937	18 G 1.5	14.6	259.2	449
10019938	25 G 1.5	17.2	360.0	617
10019927	34 G 1.5	19.8	489.6	821
10019944	2 X 2.5	7.6	48.0	113
10019945	3 G 2.5	8.3	72.0	146
10019946	4 G 2.5	9.0	96.0	180
10019947	5 G 2.5	10.1	120.0	221
10019948	7 G 2.5	11.2	168.0	295
10019949	12 G 2.5	15.1	288.0	491
10019950	4 G 4	10.8	153.6	268
10019951	5 G 4	12.1	192.0	328
10019952	7 G 4	13.4	268.8	438
10019953	4 G 6	13.0	230.4	391
10019954	5 G 6	14.5	288.0	478
10019975	7 G 6	16.0	403.2	638
10019851	4 G 10	16.2	384.0	635
10019852	5 G 10	18.1	480.0	775
10019849	4 G 16	18.8	614.4	930
10019853	5 G 16	21.2	768.0	1,147
10019854	4 G 25	23.5	960.0	1,442
10019855	5 G 25	26.4	1,200.0	1,773
10019856	4 G 35	26.6	1,344.0	1,917

Copper price basis: EUR 150 / 100 kg
 Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
 Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum
 Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Comparable products

- ÖLFLEX® CLASSIC 130 H see page 19
- ÖLFLEX® CLASSIC 130 H BK 0,6/1kV

Accessories

- SKINTOP® ST-HF-M
- MULTICRIMP 6 crimping pliers

ÖLFLEX® CLASSIC 130 H
VDE certified characteristics



Info

- Now with additional flame test acc. to NF C 32-070 categorie C1
- For UL AWM version please add "A" to the common part number



Application range

- Public buildings
- Airport, railway station
- Plant engineering and construction
Industrial machinery
Air conditioning installations
Stage technique
- Particularly where human and animal life as well as valuable property are exposed to high risk of fire hazards

Product features

- Flame retardant according to IEC 60332-1-2 (flame spread on single cable)
- No flame propagation acc. to IEC 60332-3-24 respectively IEC 60332-3-25 (Flame spread on vertical cable or wire bundle)

- No flame propagation according to NF C 32-070 category C1
- Halogen-free according to IEC 60754-1 (amount of halogen acid gas)
Corrosiveness of combustion gases according to IEC 60754-2 (degree of acidity)
- Low smoke density acc. to IEC 61034

Approvals (Norm references)



Design

- Fine strands of bare copper wires
- Core insulation: Halogen-free
- Special blended halogen-free outer sheath grey (RAL 7001)

Technical data

- Core identification code**
Black with white numbers acc. to VDE 0293
- Based on**
VDE 0281 Part 14
- Specific insulation resistance**
>10 MOhm x km
- Conductor stranding**
Fine wire in accordance to VDE 0295
Class 5 / IEC 60228 Class 5
- Minimum bending radius**
Occasional flexing: 15 x cable diameter
Fixed installation: 4 x cable diameter
- Rated voltage**
U₀/U: 300/500 V
- Test voltage**
4000 V
- Protective conductor**
G = with protective conductor GN/YE
X = without protective conductor
- Range of temperature**
Occasional flexing: -15°C to +70°C
Fixed installation: -40°C up to +70°C

Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
ÖLFLEX® CLASSIC 130 H				
1123000	2 X 0.5	4.8	9.6	36
1123001	3 G 0.5	5.1	14.4	42
1123002	3 X 0.5	5.1	14.4	42
1123003	4 G 0.5	5.7	19.2	55
1123004	4 X 0.5	5.7	19.2	55
1123005	5 G 0.5	6.2	24.0	65
1123006	5 X 0.5	6.2	24.0	65
1123008	7 G 0.5	6.8	33.6	80
1123009	7 X 0.5	6.8	33.6	80
1123010	8 G 0.5	8.0	38.4	103
1123012	10 G 0.5	8.6	48.0	112
1123013	12 G 0.5	8.9	57.6	128
1123017	18 G 0.5	10.6	86.4	189
1123020	25 G 0.5	12.8	120.0	260
1123021	30 G 0.5	13.2	144.0	294
1123032	2 X 0.75	5.4	14.4	47
1123033	3 G 0.75	5.7	21.6	56
1123034	3 X 0.75	5.7	21.6	56
1123035	4 G 0.75	6.2	28.8	69
1123036	4 X 0.75	6.2	28.8	69
1123037	5 G 0.75	6.8	36.0	83
1123038	5 X 0.75	6.8	36.0	83
1123041	7 G 0.75	7.4	50.4	104
1123042	7 X 0.75	7.4	50.4	104
1123046	10 G 0.75	9.6	72.0	149
1123047	12 G 0.75	9.9	86.4	172
1123048	12 X 0.75	9.9	86.4	172
1123051	18 G 0.75	11.8	129.6	252
1123054	25 G 0.75	14.4	180.0	352
1123056	34 G 0.75	16.3	244.8	466
1123066	2 X 1	5.7	19.2	55
1123067	3 G 1	6.0	28.8	67
1123068	3 X 1	6.0	28.8	67
1123069	4 G 1	6.6	38.4	83
1123070	4 X 1	6.6	38.4	83
1123071	5 G 1	7.2	48.0	100
1123072	5 X 1	7.2	48.0	100
1123074	7 G 1	8.0	67.2	130
1123075	7 X 1	8.0	67.2	130
1123076	8 G 1	9.5	76.8	164
1123078	10 G 1	10.3	96.0	183
1123080	12 G 1	10.6	115.2	212
1123081	12 X 1	10.6	115.2	212

Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
1123083	16 G 1	11.9	153.6	275
1123084	18 G 1	12.7	172.8	314
1123090	25 G 1	15.3	240.0	429
1123094	34 G 1	17.3	326.4	570
1123106	2 X 1.5	6.3	28.8	72
1123107	3 G 1.5	6.7	43.2	88
1123108	3 X 1.5	6.7	43.2	88
1123109	4 G 1.5	7.3	57.6	110
1123110	4 X 1.5	7.3	57.6	110
1123111	5 G 1.5	8.1	72.0	135
1123112	5 X 1.5	8.1	72.0	135
1123114	7 G 1.5	8.9	100.8	174
1123115	7 X 1.5	8.9	100.8	174
1123116	8 G 1.5	10.7	115.2	223
1123118	10 G 1.5	11.6	144.0	250
1123120	12 G 1.5	12.0	172.8	289
1123124	18 G 1.5	13.4	259.2	433
1123128	25 G 1.5	17.4	360.0	596
1123130	34 G 1.5	19.6	489.6	786
1123139	2 X 2.5	7.6	48.0	110
1123140	3 G 2.5	8.1	72.0	137
1123142	4 G 2.5	8.9	96.0	174
1123144	5 G 2.5	10.0	120.0	217
1123146	7 G 2.5	11.1	168.0	283
1123149	12 G 2.5	14.9	288.0	467
1123151	18 G 2.5	17.8	432.0	696
1123153	25 G 2.5	21.3	600.0	969
1123159	3 G 4	9.9	115.2	213
1123160	4 G 4	10.8	153.6	267
1123161	5 G 4	12.1	192.0	331
1123162	7 G 4	13.4	268.8	432
1123166	3 G 6	11.7	172.8	303
1123167	4 G 6	13.0	230.4	388
1123168	5 G 6	14.5	288.0	480
1123169	7 G 6	16.0	403.2	626
1123172	4 G 10	16.2	384.0	601
1123173	5 G 10	18.1	480.0	735
1123177	4 G 16	18.8	614.4	917
1123178	5 G 16	21.2	768.0	1,148
1123181	4 G 25	23.5	960.0	1,418
1123182	5 G 25	28.4	1,200.0	1,769
1123185	4 G 35	26.4	1,344.0	1,905
1123186	5 G 35	30.5	1,680.0	2,410

Copper price basis: EUR 150 / 100 kg
Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum
Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Comparable products

- ÖLFLEX® CLASSIC 130 H BK 0,6/1kV

Accessories

- SKINTOP® ST-HF-M

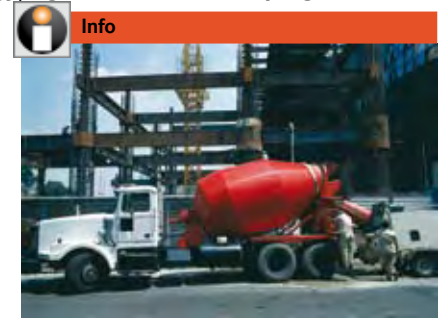


Harsh use conditions

Increased mechanical and chemical resistance

ÖLFLEX® 540 P

TPE-PUR service cordage, VDE -registered, for building sites, event technology, agriculture and camping



Benefits

- Protected against water and dirt
- Fire: low corrosive smoke emission
- Cold flexible
- Wear-resistant

- Abrasion and cut resistant
- Hydrolysis resistant
- Halogen-free
- Flame retardant (IEC 60332-1-2)

Application range

- Construction machinery
- Building sites, camp sites
- Agricultural equipment
- Production plants
- For indoor- and outdoor use

Approvals (Norm references)



Design

- Fine strands of tinned copper wires
- Core insulation: TPE
- Outer sheath: Polyurethane YELLOW (RAL 1016)
- DESIGN: other outer sheath color on demand
- PRINT: Customers imprint on demand

Product features

- Oil resistant and adhesion-free

Technical data

- Core identification code**
Colour coded, according to VDE 0293, see Appendix T9 (7-core with printed numbering)
- Specific insulation resistance**
> 20 GOhm x cm
- Conductor stranding**
Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
- Minimum bending radius**
Occasional flexing: 10 x cable diameter
Static: 4 x cable diameter
- Rated voltage**
Up to 1.0mm² 300/500 V
From 1.5mm² 450/750 V
- Test voltage**
3000 V
- Protective conductor**
G = with protective conductor GN/YE
X = without protective conductor
- Range of temperature**
Flexing: -40°C up to +90°C
Fixed installation: -50°C up to +90°C
- VDE tested**
Up to 1.0 mm²: VDE-Reg. No. 6583
Starting at 1.5 mm²: VDE-Reg. No. 6584

Part number	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
ÖLFLEX® 540 P U0/U: 300/500 V				
0012452	2 X 0.75	6.6	14.4	52
0012453	3 G 0.75	7.0	21.6	67
00124543	4 G 0.75	7.6	28.8	80
00124553	5 G 0.75	8.5	36.0	98
0012456	7 G 0.75	10.2	51.0	144
0012457	2 X 1	7.0	19.2	67
0012458	3 G 1	7.4	29.0	80
00124593	4 G 1	8.2	38.4	96
00124603	5 G 1	9.0	48.0	117
0012461	7 G 1	10.9	68.0	172
ÖLFLEX® 540 P U0/U: 450/750 V				
0012462	2 X 1.5	8.4	29.0	96
0012463	3 G 1.5	8.9	43.0	120
00124643	4 G 1.5	9.9	58.0	147
00124653	5 G 1.5	10.9	72.0	175
0012466	7 G 1.5	13.5	101.0	267
0012467	2 X 2.5	10.0	48.0	142
0012468	3 G 2.5	10.6	72.0	179
00124693	4 G 2.5	11.8	96.0	220
00124703	5 G 2.5	13.4	120.0	268
0012471	7 G 2.5	15.8	168.0	321
0012474	3 G 4	13.0	115.2	262
00124753	4 G 4	14.2	154.0	295
00124763	5 G 4	16.0	192.0	355
00124783	4 G 6	16.1	230.0	440
00124793	5 G 6	17.6	288.0	530
00124813	4 G 10	19.9	384.0	615
00124823	5 G 10	22.2	480.0	735

Copper price basis: EUR 150 / 100 kg
 Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
 Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum
 Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Comparable products

- ÖLFLEX® ROBUST
- H07RN-F see page 23
- ÖLFLEX® 550 P see page 21

Accessories

- SKINTOP® BS-M
- SKINTOP® MS-M see page 56
- SKINTOP® ST-M

ÖLFLEX® 550 P
PUR -cordage, harmonised (HAR)



Info

- All-weather service cord
- High mechanical strength
- H05BQ-F H07BQ-F



Benefits

- Protected against water and dirt
- Cold flexible
- Wear-resistant

Application range

- Construction machinery
- Building sites, camp sites
- Agricultural equipment
- Electric operated portables, e.g. for event technology
- For indoor- and outdoor use

Product features

- Oil resistant
- Abrasion and cut resistant
- Hydrolysis resistant

Approvals (Norm references)



Design

- Extra fine strands of plain copper wires (Class 6)
- Core insulation: Rubber
- Polyurethane sheath (PUR)
- Orange (RAL 2003)

Technical data

- Core identification code**
Colour coded, according to VDE 0293-308, see Appendix T9
- Approvals**
H05BQ-F; H07BQ-F / HD22.10
- Specific insulation resistance**
> 10 GOhm x cm
- Conductor stranding**
Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
- Minimum bending radius**
For flexible applications: 12.5 x outside diameter
Static:
4 x cable diameter
- Rated voltage**
Up to 1.0mm² 300/500 V
From 1.5mm² 450/750 V
- Test voltage**
3000 V
- Protective conductor**
G = with protective conductor GN/YE
X = without protective conductor
- Range of temperature**
Flexing: -40°C up to +90°C
Fixed installation: -50°C up to +90°C

Part number	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
ÖLFLEX® 550 P U0/U: 300/500 V				
0013600	2 X 0.75	6.4	14.4	50
0013601	3 G 0.75	7.0	21.6	64
00136023	4 G 0.75	7.6	28.8	78
00136033	5 G 0.75	8.5	36.0	98
0013610	2 X 1	7.0	19.2	60
0013611	3 G 1	7.4	29.0	74
00136123	4 G 1	8.1	38.4	92
00136133	5 G 1	9.0	48.0	114
ÖLFLEX® 550 P U0/U: 450/750 V				
0013620	2 X 1.5	8.4	29.0	87
0013621	3 G 1.5	8.9	43.0	108
00136223	4 G 1.5	9.9	58.0	137
00136233	5 G 1.5	10.8	72.0	165
0013630	2 X 2.5	10.0	48.0	90
0013631	3 G 2.5	10.6	72.0	161
00136323	4 G 2.5	11.8	96.0	206
00136333	5 G 2.5	13.1	120.0	254

Copper price basis: EUR 150 / 100 kg
 Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
 Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum
 Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Comparable products

- ÖLFLEX® ROBUST 200
- H05RN-F see page 23
- H07RN-F see page 23
- ÖLFLEX® 500 P
- ÖLFLEX® 540 P see page 20

Accessories

- SKINTOP® MS-M see page 56
- SKINTOP® ST-M
- Cutting tools for various applications
- Stripping tools see page



Harsh use conditions

Rubber cables

H07ZZ-F



Benefits

- Improved usage because of halogen-free materials
- According to VDE 0100-711 cables with low smokes are required in buildings for exhibitions, shows and stands without fire alarm system

Application range

- Stage technology
- Tools and agricultural machinery
- Mobile equipment and machines
- Dry and damp interiors, as well as outdoor use

Product features

- Flame retardant according to IEC 60332-1-2
- No flame propagation acc. to IEC 60332-3-24
- Low corrosivity of the gases in case of fire
- Low smokes

Approvals (Norm references)



Design

- Strands of bare copper wires
- Core insulation: Halogen-free rubber compound
- Outer sheath made of halogen-free rubber compound



Info

- Halogen-free
- Harmonized (HAR)

Technical data

- Core identification code**
Up to 5 cores: According to VDE 0293-308 Appendix T9)
Starting at 6 cores: Black with white numbers
- Approvals**
VDE 0282 Part 13 / HD 22.13 S1
- Conductor stranding**
Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
- Minimum bending radius**
Flexible use: 6 x outer diameter
Fixed installation: 4 x cable diameter
- Rated voltage**
U0/U: 450/750 V
in protected and fixed installations:
U0/U: 600/1000 V
- Test voltage**
2500 V
- Protective conductor**
G = with protective conductor GN/YE
X = without protective conductor
- Current rating**
According to VDE 0298 Part 4
- Range of temperature**
Flexible use: -5°C up to +70°C
Fixed installation: -40°C up to +70°C

Part number	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
H07ZZ-F				
1600810	3 G 1.5	9.2 - 11.9	43.2	125
1600811	4 G 1.5	10.2 - 13.1	57.6	155
1600812	5 G 1.5	11.2 - 14.4	72.0	190
1600813	7 G 1.5	15.4 - 17.6	100.8	360
1600815	14 G 1.5	18.8 - 21.3	201.6	570
1600816	18 G 1.5	20.7 - 26.3	259.2	750
1600820	3 G 2.5	10.9 - 14.0	72.0	185
1600821	4 G 2.5	12.1 - 15.5	96.0	235
1600822	5 G 2.5	13.3 - 17.0	120.0	290
1600823	7 G 2.5	18.2 - 20.7	168.0	520
1600825	14 G 2.5	22.2 - 25.0	336.0	860
1600826	18 G 2.5	24.4 - 30.9	432.0	1,080
1600836	4 G 4	14.0 - 17.9	153.6	325
1600837	5 G 4	15.6 - 19.9	192.0	410
1600841	4 G 6	15.7 - 20.0	230.4	440
1600842	5 G 6	17.5 - 22.2	288.0	550
1600844	4 G 10	20.9 - 26.5	384.0	770
1600845	5 G 10	22.9 - 29.1	480.0	950
1600847	4 G 16	23.8 - 30.1	614.4	1,070
1600849	4 G 25	28.9 - 36.6	960.0	1,570
1600851	4 G 35	32.5 - 41.1	1,344.0	2,040
1600852	4 G 50	37.7 - 47.5	1,920.0	2,710

Copper price basis: EUR 150 / 100 kg
 Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths
 Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum
 Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Comparable products

- H07RN-F see page 23

Accessories

- EASY STRIP 2 stripping and cutting tool
- PWE 8.87 crimping pliers
- KS 20 cable shears
- SKINTOP® CLICK / CLICK-R

Info

- Harmonized (HAR)
- International use



H05RR-F

Info

- Harmonized (HAR)
- International use



H05RN-F

Info

- Harmonized (HAR)
- International use



H07RN-F

Benefits

H05RR-F

- Light duty rubber-sheathed cable
- For light workshop devices with light to medium stress

H05RN-F

- Medium duty, rubber sheathed cable
- For lightweight workshop tools subject to medium loads

H07RN-F

- Heavy-duty, rubber-sheathed cable
- High stresses
- Allowed up to 1000 V (0.6/1 kV) alternating voltage within protected and fixed installation
- Arrangements from single core rubber-sheathed cables H07RN-F can be used for short-circuit and short-to-ground proof installation in accordance with VDE 0100 Part 520

Application range

H05RR-F

- Hand-held equipment
- Dry and damp interiors, as well as for temporary outdoor use
- Light & Sound technology

H05RN-F

- Hand-held equipment
- Dry and damp interiors, as well as outdoor use

H07RN-F

- Hand-held equipment
- Tools and agricultural machinery

- Dry and damp interiors, as well as outdoors and temporary in industrial water
- Light & Sound technology

Product features

H05RR-F

- Flame retardant

H05RN-F

- Flame retardant according to IEC 60332-1-2
- Oil resistant according to EN 60811-2-1

H07RN-F

- Flame retardant according to IEC 60332-1-2
- Oil resistant according to EN 60811-2-1

Approvals (Norm references)



Design

H05RR-F

- Copper wire acc. to HAR bare or tinned
- Core insulation: Rubber Type EI 4
- Outer jacket of rubber Type EM 3

H05RN-F

- Copper wire acc. to HAR bare or tinned
- Core insulation: Rubber Type EI 4
- Outer jacket of rubber Type EM 2

H07RN-F

- Copper wire acc. to HAR bare or tinned
- Core insulation: Rubber Type EI 4
- Outer jacket of rubber Type EM 2

Technical data



Core identification code
Up to 5 cores: According to VDE 0293-308 Appendix T9)
Starting at 6 cores: Black with white numbers



Approvals
VDE 0282 Part 4 / HD 22.4 S4



Specific insulation resistance
1 GOhm x cm



Conductor stranding
Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5



Minimum bending radius
Flexible use: 6 x outer diameter



Rated voltage
H05RR-F
U₀/U: 300/500 V
H05RN-F
U₀/U: 300/500 V
H07RN-F
U₀/U: 450/750 V
in protected and fixed installations:
U₀/U: 600/1000 V



Test voltage

H05RR-F

2000 V

H05RN-F

2000 V

H07RN-F

2500 V



Protective conductor

G = with protective conductor GN/YE
X = without protective conductor



Current rating

According to VDE 0298 part 4 Tab. 11 and 13



Range of temperature

Flexible use: -25°C up to +60°C

Part number	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
H05RR-F U₀/U: 300/500 V				
1600203	2 X 0.75	5.7 - 7.4	14.4	61
1600207	3 G 0.75	6.2 - 8.1	21.6	75
1600204	2 X 1	6.1 - 8.0	19.0	73
1600208	3 G 1	6.5 - 8.5	29.0	86
16002113	4 G 1	7.1 - 9.3	38.0	105
1600205	2 X 1.5	7.6 - 9.8	29.0	115
1600200	3 G 1.5	8.0 - 10.4	43.0	135
16002013	4 G 1.5	9.0 - 11.6	58.0	165
16002023	5 G 1.5	9.8 - 12.7	72.0	190
1600206	2 X 2.5	9.0 - 11.6	48.0	160
1600209	3 G 2.5	9.6 - 12.4	72.0	190
16002123	4 G 2.5	10.7 - 13.8	96.0	235
16002133	5 G 2.5	11.9 - 15.3	120.0	285
H05RN-F U₀/U: 300/500 V (4 core version as S05RN-F)				
1600250	2 X 0.75	5.7 - 7.4	14.4	80
1600252	3 G 0.75	6.2 - 8.1	21.6	95
16002583	4 G 0.75	6.8 - 8.8	30.0	105
1600251	2 X 1	6.1 - 8.0	19.0	95
1600253	3 G 1	6.5 - 8.5	29.0	115



Harsh use conditions

Rubber cables



Part number	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx.
H07RN-F U0/U: 450/750 V				
1600117	3 G 1	8.3 - 10.7	29.0	130
1600199	2 X 1.5	8.5 - 11.0	29.0	135
1600103	3 G 1.5	9.2 - 11.9	43.0	165
16001233	4 G 1.5	10.2 - 13.1	58.0	200
16001043	5 G 1.5	11.2 - 14.4	72.0	240
1600151	7 G 1.5	14.0 - 17.5	101.0	385
1600148	12 G 1.5	17.6 - 22.4	173.0	516
1600259	19 G 1.5	20.7 - 26.3	274.0	800
1600166	24 G 1.5	24.3 - 30.7	346.0	882
1600263	25 G 1.5	25.1 - 25.9	360.0	918
1600187	2 X 2.5	10.2 - 13.1	48.0	195
1600118	3 G 2.5	10.9 - 14.0	72.0	235
16001053	4 G 2.5	12.1 - 15.5	96.0	290
16001293	5 G 2.5	13.3 - 17.0	120.0	345
1600152	7 G 2.5	16.5 - 20.0	168.0	520
1600154	12 G 2.5	20.6 - 26.2	288.0	810
1600156	19 G 2.5	25.5 - 31.0	456.0	1,200
1600157	24 G 2.5	28.8 - 36.4	576.0	1,650
1600186	2 X 4	11.8 - 15.1	77.0	270
1600119	3 G 4	12.7 - 16.2	115.0	320
16001063	4 G 4	14.0 - 17.9	154.0	395
16001303	5 G 4	15.6 - 19.9	192.0	485
1600161	7 G 4	21.0 - 21.8	268.8	681
1600120	3 G 6	14.1 - 18.0	173.0	495
16001073	4 G 6	15.7 - 20.0	230.0	610
16001313	5 G 6	17.5 - 22.2	288.0	760
1600121	3 G 10	19.1 - 24.2	288.0	880
16001083	4 G 10	20.9 - 26.5	384.0	1,060
16001093	5 G 10	22.9 - 29.1	480.0	1,300
1600122	3 G 16	21.8 - 27.6	461.0	1,090
16001103	4 G 16	23.8 - 30.1	614.0	1,345
16001113	5 G 16	26.4 - 33.3	768.0	1,680
16001123	4 G 25	28.9 - 36.6	960.0	1,995
16001133	5 G 25	32.0 - 40.4	1,200.0	2,470
1600124	3 G 35	29.3 - 37.1	1,008.0	1,900
16001143	4 G 35	32.5 - 41.1	1,344.0	2,645
16001363	5 G 35	37.0 - 45.0	1,680.0	2,810
16001153	4 G 50	37.7 - 47.5	1,920.0	3,635
1600126	5 G 50	40.0 - 50.8	2,400.0	4,050
16001163	4 G 70	42.7 - 54.0	2,688.0	4,830
16001283	4 G 95	48.4 - 61.0	3,648.0	6,320
16001323	4 G 120	53.0 - 66.0	4,608.0	6,830
16000883	4 G 150	58.0 - 73.0	5,760.0	8,320
1600141	4 G 185	64.0 - 80.0	7,104.0	9,800
1600183	4 G 240	72.0 - 91.0	9,216.0	12,100
Single core rubber cable H07RN-F U0/U: 450/750 V				
1600096	1 X 1.5	5.7 - 7.1	14.4	59
1600099	1 X 2.5	6.3 - 7.9	24.0	72
1600097	1 X 4	7.2 - 9.0	38.0	99
1600098	1 X 6	7.9 - 9.8	58.0	130
1600194	1 X 10	9.5 - 11.9	96.0	230
1600195	1 X 16	10.8 - 13.4	154.0	320
1600196	1 X 25	12.7 - 15.8	240.0	450
1600193	1 X 35	14.3 - 17.9	336.0	605
1600197	1 X 50	16.5 - 20.6	480.0	825
1600189	1 X 70	18.6 - 23.3	672.0	1,090
1600190	1 X 95	20.8 - 26.0	912.0	1,405
1600198	1 X 120	22.8 - 28.6	1,152.0	1,745
1600191	1 X 150	25.2 - 31.4	1,440.0	1,887
1600175	1 X 185	27.6 - 34.4	1,776.0	2,274
1600177	1 X 240	30.6 - 38.3	2,304.0	2,955
30015435	1 X 300	33.5 - 41.9	2,880.0	3,479

Copper price basis: EUR 150 / 100 kg

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum

Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Cross-Section 5G35 and 5G50 without <HAR>

■ **Comparable products**

H05RN-F

- H07ZZ-F see page 22

H07RN-F

- H07ZZ-F see page 22
- ÖLFLEX® AQUA RN8

■ **Accessories**

H07RN-F

- EASY STRIP 2 stripping and cutting tool
- PWE 8.87 crimping pliers
- KS 20 cable shears
- SKINTOP® CLICK / CLICK-R

ÖLFLEX® PLUG Extension Cable



ÖLFLEX® PLUG Extension Cable

Application range

- Mechanical engineering
- Construction industry
- Agricultural equipment
- In damp rooms or outdoors

Product features

- Customised printing on request

Approvals (Norm references)



Design

- Shock-proof straight plug attached (16 amp., 250 V, solid rubber, colour: black) in accordance to DIN 49440/441, protection type: IP 44
- Mounted, straight shock-proof coupling with rubber-cover (16 Ampere, 250 V, solid rubber, colour: black) according to DIN 49440/441, protection type: IP 44

Part number	Number of cores and mm² per conductor	Cable diameter, in mm approx.	Length in m	Copper index kg/ 1000 pcs.
ÖLFLEX® 540 P protection yellow				
73222322	3 G 1.5	8.9	10.0	430.00
73222323	3 G 1.5	8.9	25.0	1,075.00
73222324	3 G 1.5	8.9	50.0	2,150.00
73222325	3 G 2.5	10.6	10.0	720.00
73222326	3 G 2.5	10.6	25.0	1,800.00
73222327	3 G 2.5	10.6	50.0	3,600.00
H07RN-F				
73222328	3 G 1.5	9.6 - 12.5	10.0	430.00
73222329	3 G 1.5	9.6 - 12.5	25.0	1,075.00
73222330	3 G 1.5	9.6 - 12.5	50.0	2,150.00
73222331	3 G 2.5	11.5 - 14.5	10.0	720.00
73222332	3 G 2.5	11.5 - 14.5	25.0	1,800.00
73222333	3 G 2.5	11.5 - 14.5	50.0	3,600.00

Copper price basis: EUR 150 / 100 kg



Harnessed cables

Connection- and extension cables

ÖLFLEX® PLUG CEE (400 V) Connection/ Extension Cable



ÖLFLEX® PLUG CEE (400 V) Connection/ Extension Cable

Application range

- For connections to any three-phase A.C. consumers
- Machines and systems on building sites
- Dry and damp interiors, as well as outdoor use

Product features

- Also with phase shifter available (engine direction can be changed)
- Other dimensions, lengths, connectors, and customised versions available on request
- Customised printing on request

Approvals (Norm references)



Design

- Mounted CEE plug 5-pin, 400 V, red, 6 o'clock accordance to VDE 0623/ EN 60309-2 splash-proof IP 44
- 80 mm stripped, with conductor end sleeves
- Alternatively
- Mounted CEE coupling 5-pin, 400 V, red, 6 o'clock accordance to VDE 0623/ EN 60309-2 splash-proof IP 44

Technical data

- Core identification code**
According to VDE 0293-308 (table T9)
- Approvals**
H07RN-F
VDE 0282 Part 4 / HD 22.4 S4
- Based on**
VDE 0282
- Specific insulation resistance**
1 GOhm x cm
- Conductor stranding**
Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
- Minimum bending radius**
Flexible use: 15 x cable diameter
- Rated voltage**
U₀/U: 450/750 V
- Test voltage**
2500 V
- Range of temperature**
Flexible use: -25°C up to +60°C

Part number	Plug Ampere	Number of cores and mm ² per conductor	Cable diameter, in mm approx.	Length in m	Copper index kg/ 1000 pcs.
ÖLFLEX® PLUG CEE (400 V) connection cable					
Without phase shifter					
71222231	16	5 G 1.5	11.2 - 14.4	2.5	180.00
71002837	16	5 G 1.5	11.2 - 14.4	3.5	252.00
71222239	16	5 G 1.5	11.2 - 14.4	5.0	360.00
71222232	16	5 G 2.5	13.3 - 17.0	2.5	300.00
71002840	16	5 G 2.5	13.3 - 17.0	3.5	420.00
71222240	16	5 G 2.5	13.3 - 17.0	5.0	600.00
71222233	32	5 G 2.5	13.3 - 17.0	2.5	300.00
71222241	32	5 G 2.5	13.3 - 17.0	5.0	600.00
71222234	32	5 G 4	15.6 - 19.9	2.5	480.00
71222242	32	5 G 4	15.6 - 19.9	5.0	960.00
71222243	32	5 G 6	17.5 - 22.2	5.0	1,440.00
With phase shifter					
71002843	16	5 G 1.5	11.2 - 14.4	3.5	252.00
71002844	16	5 G 1.5	11.2 - 14.4	5.0	360.00
71002846	16	5 G 2.5	13.3 - 17.0	3.5	420.00
71002847	16	5 G 2.5	13.3 - 17.0	5.0	600.00
ÖLFLEX® PLUG CEE (400 V) extension Cable					
Without phase shifter					
71222292	16	5 G 1.5	11.2 - 14.4	10.0	720.00
71222295	16	5 G 2.5	13.3 - 17.0	10.0	1,200.00
71222296	16	5 G 2.5	13.3 - 17.0	25.0	3,000.00
71222298	32	5 G 2.5	13.3 - 17.0	10.0	1,200.00
71222299	32	5 G 2.5	13.3 - 17.0	25.0	3,000.00
71222301	32	5 G 4	15.6 - 19.9	10.0	1,920.00
71222302	32	5 G 4	15.6 - 19.9	25.0	4,800.00
71222304	32	5 G 6	17.5 - 22.2	10.0	2,880.00
71222305	32	5 G 6	17.5 - 22.2	25.0	7,200.00

Copper price basis: EUR 150 / 100 kg

H05VV-F Net Connection Cable / ÖLFLEX® PLUG H03VV-F



Info

- Other colours and designs are available on request



ÖLFLEX® PLUG H03VV-F / H05VV-F Net Connection Cable

Benefits

- Approvals of most of the European countries according to the following chart

Application range

- Electrical devices
- Appliances and machinery

Product features

- For additional information regarding international plugs, please visit our cable configurator at www.lappkabel.de

Approvals (Norm references)



Design

- First end: injection moulded, angular shock-proof plug with double shock-proof contact
- 2nd end: straight socket injection moulded
- Alternatively
- First end: injection moulded, angular shock-proof plug with double shock-proof contact
- 2nd end: 30 mm stripped, with conductor end sleeves

Technical data



Core identification code
According to VDE 0293-308 (table T9)



Approvals
see above



Conductor stranding
Fine wire according to VDE 0295 Class 5 / IEC 60228 Class 5



Rated voltage
U₀/U: 250 V



Test voltage
2000 V



Protective conductor
G = with protective conductor GN/YE



Range of temperature
Flexible use: -5°C Cup to +70°C

Part number	Number of cores and mm ² per conductor	Colour	Cable diameter, in mm approx.	Length in m	Copper index kg/ 1000 pcs.
First end: injection moulded angular shock-proof connector with shock-proof contact					
Second end: injection moulded straight female connector					
H05VV-F					
73222334	3 G 1	black	6.8 - 8.4	2.5	72.50
73222336	3 G 1	grey	6.8 - 8.4	2.5	72.50
First end: injection moulded angular shock-proof connector with shock-proof contact					
Second end: 30 mm stripped with conductor end sleeves					
H03VV-F					
70261131	3 G 0.75	black	5.4 - 6.8	2.0	43.20
70261132	3 G 0.75	black	5.4 - 6.8	3.0	64.80
70261137	3 G 0.75	grey	5.4 - 6.8	2.0	43.20
70261138	3 G 0.75	grey	5.4 - 6.8	3.0	64.80
H05VV-F					
70261140	3 G 1	black	6.8 - 8.4	2.0	58.00
70261141	3 G 1	black	6.8 - 8.4	3.0	87.00
70261146	3 G 1	grey	6.8 - 8.4	2.0	58.00
70261147	3 G 1	grey	6.8 - 8.4	3.0	87.00
H05VV-F					
70261149	3 G 1.5	black	8.0 - 9.8	2.0	86.00
70261150	3 G 1.5	black	8.0 - 9.8	3.0	129.00
70261155	3 G 1.5	grey	8.0 - 9.8	2.0	86.00
70261156	3 G 1.5	grey	8.0 - 9.8	3.0	129.00

Copper price basis: EUR 150 / 100 kg
10 pieces in polyester bag



Special applications

Light & Sound technology

ÖLFLEX® POWER REFLEX TR

ÖLFLEX® connection cable with reflecting foil



Info

- Reflecting
- Flexible
- Cold resistant

Benefits

- The slightly different extension cable in ÖLFLEX® quality is especially suitable for connection purposes where the appearance of the cable is important. The reflecting foil ensures that the cable is recognised immediately and no one can stumble.
- Because of the superfine strands, the cable is also suitable for reeling and unreeling.
- It is the extraordinary design which makes the cable stand out.

- High test voltage of 3.5 kV ensures maximum insulation safety.
- Extremely noticeable due to the reflecting foil.
- Suitable for reeling and unreeling.
- Flexible down to -25°C

Approvals (Norm references)



- These products comply with EEC directive 73/23 (Low Voltage Directive) CE
- Flame retardant according to IEC 60332-1-2

Design

- Fine strands of bare copper wires
- Cold flexible PVC core insulation
- Reflective foil
- Cold flexible PVC compound sheath, transparent

Application range

- Power supply for lighting and stage applications
- Applications where the appearance of the cable should stand out
- Mobile use and fixed installations

Product features

- Satisfies the most demanding electrical and mechanical requirements.

Technical data

- Core identification code**
Coloured according to VDE 0293-308 see Appendix T9
- Conductor stranding**
Extra fine wire in acc. with VDE 0295 Cl.6/IEC 60228 Cl. 6
- Minimum bending radius**
Occasional flexing: 10 x cable diameter
Fixed installation: 6 x cable diameter
- Rated voltage**
U_n/U: 300/500 V
- Test voltage**
3500 V
- Range of temperature**
Flexible use: -25°C up to +80°C
Occasional flexing: -40°C up to +80°C

Part number	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Copper index kg/km approx.	Weight kg/km approx.
3034700	3 G 1.5	8.3	43.2	89.0
3034701	3 G 2.5	10.3	72.0	145.0
3034702	3 G 4	12.4	115.2	205.0

Copper price basis: EUR 150 / 100 kg
 Standard lengths: (50; 100; 500; 1000) m
 Packaging size: Coil ≤ 30 kg, otherwise drum
 Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Comparable products

- UNITRONIC® SPEAKER REFLEX TR



ÖLFLEX® HEAT 180 H05SS-F EWKF

Harmonized silicone cables with increased mechanical performance



Info

- International use combined with proved EWKF quality
- For thermal class H applications

Benefits

- European wide use due to HARmonization
- Notch and tear resistant silicone compounds reduce mechanical damage
- In harsh applications longer durability than conventional H05SS-F standardized cables
- Good flexibility ease the installation where space is limited
- Possess still insulating properties after combustion due to remaining SiO2 ash on the conductor

Application range

- Areas with high ambient temperatures and additionally high mechanical stress
- Typical fields of application
 - Steel and iron works
 - Cement and ceramic works
 - Foundries
 - Bakery equipment
 - Electric motor industry
 - Sauna/solarium construction
 - Thermal and heating elements
 - Lighting technology
 - Ventilator engineering
 - Air conditioning technology
 - Oven construction
 - Galvanization technology
 - Polymer processing
 - Generator and transformer building
 - Wind turbine engineering

Product features

- Halogen-free and flame retardant (IEC 60332-1-2)
- Reduced smoke density
- Good hydrolysis and UV resistance
- Resistant against a multitude of oils, alcohols, vegetable and animal fats and other chemical media
- EWKF Formula: Increased initial tear propagation and notch resistance

Approvals (Norm references)



- HD 22.15 S1 (H05SS-F)

Design

- Fine strands of tinned copper wires
- Core insulation: Based on EWKF silicone
- Cores twisted together
- Notch resistant silicone based EWKF outer sheath, colour black (RAL 9005)

Technical data

- Core identification code**
Colour coded, according to VDE 0293-308, see Appendix T9
- Approvals**
HD 22.15 S1 (H05SS-F)
- Specific insulation resistance**
>200 GOhm x cm
- Conductor stranding**
Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
- Minimum bending radius**
For flexible applications:
15 x cable diameter
- Rated voltage**
U₀/U 300/500 V
- Test voltage**
2000 V
- Protective conductor**
G = with protective conductor GN/YE
X = without protective conductor
- Range of temperature**
-50 °C up to +180 °C
(adequate ventilation provided)

Part number	Number of cores and mm ² per conductor	Outer diameter mm	Copper index kg/km	Weight kg/km approx.
ÖLFLEX® HEAT 180 H05SS-F EWKF				
0046900	2 X 0.75	6.4	14.4	54.0
0046901	3 G 0.75	7.0	21.6	67.0
00469023	4 G 0.75	7.6	28.8	87.0
00469033	5 G 0.75	8.5	36.0	105.0
0046904	2 X 1	6.8	19.2	63.0
0046905	3 G 1	7.2	28.8	81.0
00469063	4 G 1	7.9	38.4	98.0
00469073	5 G 1	8.8	48.0	121.0
0046908	2 X 1.5	8.4	28.8	84.0
0046909	3 G 1.5	8.9	43.2	103.0
00469103	4 G 1.5	9.9	57.6	128.0
00469113	5 G 1.5	10.9	72.0	154.0
0046912	2 X 2.5	9.8	48.0	141.0
0046913	3 G 2.5	10.4	72.0	158.0
00469143	4 G 2.5	11.6	96.0	195.0
00469153	5 G 2.5	12.9	120.0	241.0
0046916	3 G 4	12.3	115.2	239.0
00469173	4 G 4	13.7	153.6	312.0
0046919	3 G 6	14.0	172.8	345.0
00469203	4 G 6	15.6	230.4	451.0

Copper price basis: EUR 150 / 100 kg

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum

Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Comparable products

- ÖLFLEX® HEAT 180 EWKF
- ÖLFLEX® HEAT 180 EWKF C



Expanded ambient temperatures

Silicone cables (-50°C up to +180°C)

ÖLFLEX® HEAT 180 SiHF

Silicone cables with extended temperature range



Info

- The classic for multisided use
- For thermal class H applications

Benefits

- Good flexibility ease the installation where space is limited
- Possess still insulating properties after combustion due to remaining SiO₂ ash on the conductor

Application range

- Areas with high ambient temperatures where insulating and sheath materials of conventional cables will embrittle after a short while
- Typical fields of application
 - Steel and iron works
 - Cement and ceramic works
 - Foundries
 - Bakery equipment
 - Electric motor industry
 - Sauna/solarium construction
 - Thermal and heating elements
 - Lighting technology
 - Ventilator engineering
 - Air conditioning technology
 - Oven construction
 - Galvanization technology
 - Polymer processing
 - Generator and transformer building
 - Wind turbine engineering

Product features

- Halogen-free and flame retardant (IEC 60332-1-2)
- Reduced smoke density
- Resistant against a multitude of oils, alcohols, vegetable and animal fats and other chemical media

Approvals (Norm references)



Design

- Fine strands of tinned copper wires
- Core insulation: Based on Silicone
- Cores twisted in layers
- Silicone based outer sheath, colour redbrown

Technical data



Core identification code
Colour coded, according to VDE 0293-308, see Appendix T9
Starting at 6 cores: Black with white numbers



Based on
VDE regulation VDE 0250



Specific insulation resistance
>200 GOhm x cm



Conductor stranding
Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5



Minimum bending radius
For flexible applications:
15 x cable diameter
Fixed installation:
4 x cable diameter



Rated voltage
U_i/U 300/500 V



Test voltage
2000 V



Protective conductor
G = with protective conductor GN/YE
X = without protective conductor



Range of temperature
-50 °C up to +180 °C
(adequate ventilation provided)

Part number	Number of cores and mm ² per conductor	Outer diameter mm	Copper index kg/km	Weight kg/km approx.
ÖLFLEX® HEAT 180 SiHF				
0046001	2 X 0.75	6.4	14.4	53.4
0046002	3 G 0.75	6.8	21.6	63.7
00460033	4 G 0.75	7.6	28.8	83.6
00460043	5 G 0.75	8.5	36.0	101.2
0046005	6 G 0.75	9.2	43.2	116.8
0046006	7 G 0.75	9.2	50.4	124.9
0046007	2 X 1	6.6	19.2	59.9
0046008	3 G 1	7.0	29.0	78.2
00460093	4 G 1	7.9	38.4	94.5
00460103	5 G 1	8.8	48.0	116.0
0046012	7 G 1	9.5	67.0	144.2
0046013	2 X 1.5	7.6	29.0	81.7
0046014	3 G 1.5	8.0	43.0	98.3
00460153	4 G 1.5	8.8	58.0	122.4
00460163	5 G 1.5	9.6	72.0	148.0
0046018	7 G 1.5	10.4	101.0	187.3
0046039	12 G 1.5	14.0	173.0	315.0
0046040	16 G 1.5	16.2	230.4	446.0
0046041	20 G 1.5	17.5	288.0	566.0

Part number	Number of cores and mm ² per conductor	Outer diameter mm	Copper index kg/km	Weight kg/km approx.
0046042	24 G 1.5	19.8	345.6	722.0
0046019	2 X 2.5	8.8	48.0	135.0
0046020	3 G 2.5	9.7	72.0	152.3
00460213	4 G 2.5	10.6	96.0	188.7
00460223	5 G 2.5	11.6	120.0	229.3
0046024	7 G 2.5	12.6	168.0	293.4
0046025	2 X 4	10.8	76.8	181.4
0046026	3 G 4	11.5	115.0	224.0
00460273	4 G 4	12.6	154.0	294.8
00460283	5 G 4	14.0	192.0	359.4
0046030	7 G 4	15.6	269.0	480.0
0046031	2 X 6	12.4	116.0	274.2
0046032	3 G 6	13.2	173.0	338.4
00460333	4 G 6	14.7	230.0	442.1
00460343	5 G 6	16.6	288.0	535.1
0046036	7 G 6	18.6	403.0	685.5
00460373	4 G 10	19.4	384.0	707.1
00460453	5 G 10	21.6	480.0	866.6
00460383	4 G 16	22.0	614.0	987.5

Copper price basis: EUR 150 / 100 kg

Please find our standard lengths at: www.lappkabel.de/en/cable-standardlengths

Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum

Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Comparable products

- ÖLFLEX® HEAT 180 H05SS-F EWKF see page 29
- ÖLFLEX® HEAT 180 EWKF

UNITRONIC® SPEAKER LIYY BK

Speaker cable with robust, cold-resistant PVC-sheath

Info

- Cold resistant
- robust
- Flexible



UNITRONIC® SPEAKER LIYCY TR

Speaker cable with copper screen and transparent outer sheath

Info

- Screen braiding
- EMC optimised
- Transparent



UNITRONIC® SPEAKER LIHH BK

Speaker cable halogen-free version

Info

- Halogen-free
- Low toxicity
- Low smoke density



Benefits

UNITRONIC® SPEAKER LIYY BK

- Optimally small external diameters reduce the space requirements.
- Robust outer sheath gives strength to the cable as well as high flexibility.

UNITRONIC® SPEAKER LIYCY TR

- This screened version is recommended where electrical or magnetic fields can falsify signal transmissions.

UNITRONIC® SPEAKER LIHH BK

- Usage where both the toxicity of vapours and flame retardance are important. Specially for the protection of persons and high value property.

Application range

- Professional P.A. applications
- Studio
- HiFi / Car-Hifi

Approvals (Norm references)



- Flame retardant according to IEC 60332-1-2

Design

UNITRONIC® SPEAKER LIYY BK

- Fine strands of bare copper wires
- Core insulation: PVC-based, cold flexible
- Coloured cores
- Cores twisted in short lay lengths
- Outer sheath of special soft-PVC, black

UNITRONIC® SPEAKER LIYCY TR

- Like UNITRONIC® SPEAKER LIYY BK plus screen braiding of tinned copper wires, outer sheath of cold-flexible special compound based on transparent PVC.

UNITRONIC® SPEAKER LIHH BK

- As UNITRONIC® SPEAKER LIYY BK, but with halogen-free compounds.

Technical data

- Conductor stranding**
Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
- Minimum bending radius**
Flexible use: 15 x cable diameter
Fixed installation: 5 x cable diameter
- Test voltage**
UNITRONIC® SPEAKER LIYY BK
1500 V
UNITRONIC® SPEAKER LIYCY TR
1500 V
UNITRONIC® SPEAKER LIHH BK
1200 V
- Range of temperature**
UNITRONIC® SPEAKER LIYY BK
Occasional flexing: -25°C up to +70°C
Fixed installation: -40°C up to +80°C
UNITRONIC® SPEAKER LIYCY TR
Occasional flexing: -25°C up to +70°C
Fixed installation: -40°C up to +80°C
UNITRONIC® SPEAKER LIHH BK
Flexible: -5°C to +70°C
Static:
-30°C up to +80°C



Part number	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Copper index kg/km approx.	Weight kg/km approx.
UNITRONIC® SPEAKER LIYY				
1233300	2 X 1.5	7.0	30.0	82.0
1233301	2 X 2.5	8.0	50.0	110.0
3035378	4 X 2.5	10.5	96.0	178.0
3035781	8 X 2.5	12.5	192.0	310.0
3035891	2x2,5+2x4	11.2	124.8	215.0
1233302	2 X 4	9.6	76.8	165.0
3035379	4 X 4	11.5	154.0	275.0
3035967	8 X 4	15.6	307.2	550.0
1233303	2 X 6	11.2	115.2	235.0
UNITRONIC® SPEAKER LIYY BK Turquoise cores				
3035558	4 X 2.5	10.0	96.0	178.0
3035621	4 X 4	11.7	154.0	273.0
UNITRONIC® SPEAKER LIYCY TR				
1233308	2 X 1.5	8.2	53.7	98.0
1233309	2 X 2.5	9.5	72.0	132.0
1233310	2 X 4	11.2	108.0	180.0
1233311	2 X 6	13.0	164.0	262.0
UNITRONIC® SPEAKER LIHH				
1233304	2 X 1.5	7.0	30.0	82.0
1233305	2 X 2.5	8.0	50.0	110.0
1233306	2 X 4	9.6	76.8	165.0
1233307	2 X 6	11.2	115.2	235.0

Copper price basis: EUR 150 / 100 kg
 Standard lengths: (50; 100; 500; 1000) m
 Packaging size: Coil ≤ 30 kg, otherwise drum
 Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

UNITRONIC® SPEAKER pre-made

Pre-made with Neutrik® SPEAKON® - connectors



Info

- Cold resistant
- Robust
- Flexible

UNITRONIC® SPEAKER pre-made

Benefits

- Optimally small external diameters reduce the space requirements.
- Robust outer sheath gives strength to the cable as well as high flexibility.

Application range

- Professional P.A. applications

Approvals (Norm references)



- Flame retardant according to IEC 60332-1-2

Design

- Fine strands of bare copper wires
- Core insulation: PVC-based, cold flexible
- Coloured cores
- Cores twisted in short lay lengths
- Outer sheath of special soft-PVC, black

Technical data

- Conductor stranding**
Fine wire according to VDE 0295 Class 5/ IEC 60228 Class 5
- Minimum bending radius**
Flexible use: 15 x cable diameter
Fixed installation: 5 x cable diameter
- Rated voltage**
1500 V
- Range of temperature**
Occasional flexing: -25°C up to +70°C
Fixed installation: -40°C up to +80°C
- Capacity**
95 pF/m (Core/Core)
130 pF/m (Core/Screen)

Part number	Cable	Number of cores and mm ² per conductor	Length in m	Connector / end 1	Connector / end 2	Weight kg/piece approx.	PU
UNITRONIC® SPEAKER LIYY BK with Neutrik Speakon-connector (2-pole)							
74400200	1233301	2 x 2.5	1.0	Neutrik-NL2FC	Neutrik-NL2FC	0.1	1
74400201	1233301	2 x 2.5	2.5	Neutrik-NL2FC	Neutrik-NL2FC	0.3	1
74400202	1233301	2 x 2.5	5.0	Neutrik-NL2FC	Neutrik-NL2FC	0.6	1
74400203	1233301	2 x 2.5	7.5	Neutrik-NL2FC	Neutrik-NL2FC	0.8	1
74400204	1233301	2 x 2.5	10.0	Neutrik-NL2FC	Neutrik-NL2FC	1.1	1
74400205	1233301	2 x 2.5	15.0	Neutrik-NL2FC	Neutrik-NL2FC	1.7	1
74400206	1233301	2 x 2.5	20.0	Neutrik-NL2FC	Neutrik-NL2FC	2.2	1
74400207	1233301	2 x 2.5	25.0	Neutrik-NL2FC	Neutrik-NL2FC	2.8	1
UNITRONIC® SPEAKER LIYY BK with Neutrik Speakon-Steckern (4-pole)							
74400210	3035378	4 x 2.5	1.0	Neutrik-NL4FX	Neutrik-NL4FX	0.2	1
74400211	3035378	4 x 2.5	2.5	Neutrik-NL4FX	Neutrik-NL4FX	0.4	1
74400212	3035378	4 x 2.5	5.0	Neutrik-NL4FX	Neutrik-NL4FX	0.9	1
74400213	3035378	4 x 2.5	7.5	Neutrik-NL4FX	Neutrik-NL4FX	1.3	1
74400214	3035378	4 x 2.5	10.0	Neutrik-NL4FX	Neutrik-NL4FX	1.8	1
74400215	3035378	4 x 2.5	15.0	Neutrik-NL4FX	Neutrik-NL4FX	2.7	1
74400216	3035378	4 x 2.5	20.0	Neutrik-NL4FX	Neutrik-NL4FX	3.6	1
74400217	3035378	4 x 2.5	25.0	Neutrik-NL4FX	Neutrik-NL4FX	4.5	1
UNITRONIC® SPEAKER LIYY BK with Neutrik Speakon-connector (2-pole)							
74400220	1233302	2 x 4	1.0	Neutrik-NL2FC	Neutrik-NL2FC	0.2	1
74400221	1233302	2 x 4	2.5	Neutrik-NL2FC	Neutrik-NL2FC	0.4	1
74400222	1233302	2 x 4	5.0	Neutrik-NL2FC	Neutrik-NL2FC	0.8	1
74400223	1233302	2 x 4	7.5	Neutrik-NL2FC	Neutrik-NL2FC	1.2	1
74400224	1233302	2 x 4	10.0	Neutrik-NL2FC	Neutrik-NL2FC	1.7	1
74400225	1233302	2 x 4	15.0	Neutrik-NL2FC	Neutrik-NL2FC	2.5	1
74400226	1233302	2 x 4	20.0	Neutrik-NL2FC	Neutrik-NL2FC	3.3	1
74400227	1233302	2 x 4	25.0	Neutrik-NL2FC	Neutrik-NL2FC	4.1	1
UNITRONIC® SPEAKER LIYY BK with Neutrik Speakon-Steckern (4-pole)							
74400230	3035379	4 x 4	1.0	Neutrik-NL4FX	Neutrik-NL4FX	0.3	1
74400231	3035379	4 x 4	2.5	Neutrik-NL4FX	Neutrik-NL4FX	0.7	1
74400232	3035379	4 x 4	5.0	Neutrik-NL4FX	Neutrik-NL4FX	1.4	1
74400233	3035379	4 x 4	7.5	Neutrik-NL4FX	Neutrik-NL4FX	2.1	1
74400234	3035379	4 x 4	10.0	Neutrik-NL4FX	Neutrik-NL4FX	2.8	1
74400235	3035379	4 x 4	15.0	Neutrik-NL4FX	Neutrik-NL4FX	4.1	1
74400236	3035379	4 x 4	20.0	Neutrik-NL4FX	Neutrik-NL4FX	5.5	1
74400237	3035379	4 x 4	25.0	Neutrik-NL4FX	Neutrik-NL4FX	6.9	1

Packaging size: Coil

Comparable products

- UNITRONIC® SPEAKER LIYY BK

UNITRONIC® SPEAKER X-FLEX BK

Speaker cable with extrem robust sheath for high mechanical stress



Info

- robust
- Highly flexible for improved handling
- Can also be used mobile outdoors

UNITRONIC® SPEAKER X-FLEX C BK

Screened speaker cable with extrem robust sheath for high mechanical stress



Info

- Screened against interference
- Highly flexible for improved handling
- Can also be used mobile outdoors

Benefits

- Optimally small external diameters reduce the space requirements.
- The extremely robust outer sheath gives strength to the cable as well as high flexibility.
- Flexible down to -30°C
- Outdoor use is possible under consideration of the temperature range

Application range

- Speaker cable, developed based on the proven Lapp Kabel data cables, has an extremely robust black sheath that makes the cable “invisible” on stage and provides excellent flexibility for improved handling.

Approvals (Norm references)



- Flame retardant (IEC 60332-1-2)

Design

UNITRONIC® SPEAKER X-FLEX BK

- Extra fine wire in acc. with VDE 0295 Cl.6/ IEC 60228 Cl. 6
- Core insulation: TPE
- Cores twisted in extremely short lay lengths
- Outer sheath of abrasion resistant TPE, black

UNITRONIC® SPEAKER X-FLEX C BK

- Extra fine wire in acc. with VDE 0295 Cl.6/ IEC 60228 Cl. 6
- Core insulation: TPE
- Cores twisted in extremely short lay lengths
- Screen made of tinned copper wire braid
- Outer sheath of abrasion resistant TPE, black

Technical data

- Core identification code**
red, black
- Conductor stranding**
Extra fine wire in acc. with VDE 0295 Cl.6/IEC 60228 Cl. 6
- Minimum bending radius**
UNITRONIC® SPEAKER X-FLEX BK
For flexible applications:
5 x cable diameter
UNITRONIC® SPEAKER X-FLEX C BK
For flexible applications:
7.5 x cable diameter
- Rated voltage**
48 V AC
- Test voltage**
1500 V
- Range of temperature**
Flexing: -30°C up to +70°C

Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper index kg/km approx.	Weight kg/km approx.
UNITRONIC® SPEAKER X-FLEX BK				
1233316	2 X 1.5	7.0	28.8	74.0
1233317	2 X 2.5	8.0	48.0	105.0
1233318	2 X 4	9.6	76.8	160.0
1233319	2 X 6	11.2	115.2	220.0
UNITRONIC® SPEAKER X-FLEX C BK				
1233320	2 X 1.5	7.5	51.0	105.0
1233321	2 X 2.5	8.6	72.0	130.0
1233322	2 X 4	10.4	110.0	188.0
1233323	2 X 6	12.2	162.0	271.0

Copper price basis: EUR 150 / 100 kg
 Standard lengths: (50; 100; 500; 1000) m
 Packaging size: Coil ≤ 30 kg, otherwise drum
 Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)





UNITRONIC® SPEAKER TR

Extraordinary design with high quality



Info

- The slightly different speaker cable
- Transparent
- Cold resistant



UNITRONIC® SPEAKER FLAT TR

Extremely flat speaker cable



Info

- As flat as possible



UNITRONIC® SPEAKER REFLEX TR

Reflecting speaker cable



Info

- Extra ordinary reflecting



Benefits

UNITRONIC® SPEAKER TR

- As a result of the minimal twisting, loss-free signal transmission can also be achieved over long distances. As a result, flexibility, and thus simple installation of the cable, is assured. An exceptional design with high quality.

UNITRONIC® SPEAKER FLAT TR

- The ideal speaker cable for “invisible” installation. Its low height of only 2.0 mm allows this cable to be hidden under furniture or carpets as well as behind trim or on the ceiling.

UNITRONIC® SPEAKER REFLEX TR

- As a result of the minimal twisting, loss-free signal transmission can also be achieved over long distances. As a result, flexibility, and thus simple installation of the cable, is assured. An exceptional design with high quality.

Design

UNITRONIC® SPEAKER TR

- 1x bare copper strand, 1 x tinned copper strand according to VDE 0295 Cl.5
- Core insulation: PP transparent
- Core colour code: 2 x transparent
- Cores twisted with 2 clear blind elements and shortest possible lay lengths
- Outer sheath of cold resistant PVC vinyl in transparent

UNITRONIC® SPEAKER FLAT TR

- Flat rolled copper braid, tinned
- 2transparent cores, parallel
- One core with red stripe

UNITRONIC® SPEAKER REFLEX TR

- Extra fine wire in according to VDE 0295 Class 6/ IEC 60228 Class 6
- Core insulation: TPE (Colour red, black)
- Soft PVC inner sheath
- Reflective foil
- Cold flexible PVC compound sheath, transparent

Technical data



Minimum bending radius
UNITRONIC® SPEAKER TR

Fixed installation :

5 x cable diameter

UNITRONIC® SPEAKER REFLEX TR

Fixed installation :

5 x cable diameter



Range of temperature
UNITRONIC® SPEAKER TR

-40 °C to +70 °C

UNITRONIC® SPEAKER FLAT TR

-20 °C to +70 °C

UNITRONIC® SPEAKER REFLEX TR

-40 °C bis +80 °C

Approvals (Norm references)



- Flame retardant (IEC 60332-1-2)

Part number	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Copper index kg/km approx.	Weight kg/km approx.
UNITRONIC® SPEAKER TR				
3034662	2 X 0.75	6.0	14.4	51.0
3034663	2 X 1	6.2	19.2	58.0
3034664	2 X 1.5	6.8	28.8	72.0
3034665	2 X 2.5	8.6	48.0	115.0
3034666	2 X 4	10.4	76.8	176.0
3034667	2 X 6	11.6	115.2	240.0
3034668	2 X 10	15.0	192.0	395.0

Part number	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Copper index kg/km approx.	Weight kg/km approx.
UNITRONIC® SPEAKER FLAT TR				
3034110	2 X 1.5	8.4 x 2.0	31.0	48.0
3034111	2 X 2.5	11.6 x 2.8	49.0	83.0
3034112	2 X 4	16.5 x 3.4	85.0	121.0
UNITRONIC® SPEAKER FLAT BK				
3035167	2 X 1.5	8.4 x 2.0	31.0	48.0
UNITRONIC® SPEAKER REFLEX TR				
3034107	2 X 1.5	8.5	28.8	80.0
3034108	2 X 2.5	9.5	48.0	110.0
3034109	2 X 4	12.0	76.8	185.0

Copper price basis: EUR 150 / 100 kg

Standard lengths: (50; 100; 500; 1000) m

Packaging size: Coil ≤ 30 kg, otherwise drum

Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Comparable products

UNITRONIC® SPEAKER REFLEX TR

- ÖLFLEX® POWER REFLEX TR

UNITRONIC® MICROPHONE BK

100 % screened microphone cable, brilliant electrical values, flexible and soft



Info

- Low capacitance and high transmission quality
- Flexible
- robust

Benefits

- Additional application due to outdoor use
- Good flexibility - easy installation with tight space requirements
- Screened against interference
- Easy to wind for mobile use.

Application range

- Microphone cables for professional use in studios, radio and television and on stage. The robust black outer sheath allows the cable to be used outdoors.

Product features

- Flame retardant according to IEC 60332-1-2

Approvals (Norm references)



Design

- Extra fine strands of plain copper wires (Class 6)
- Core insulation: Polyethylene (PE)
- Cores twisted to pair in extremely short lay lengths
- Cooper wrapping
- Outer sheath of special soft-PVC, black

Technical data

- Conductor stranding**
Extra fine wire in according to VDE 0295 Class 6 / IEC 60228 Class 6
- Minimum bending radius**
For flexible applications: 5 x outside diameter
- Range of temperature**
Flexing: -30°C up to +80°C
- Characteristic impedance**
1x(2x0.34) approx. 100 Ω/km
1x(4x0.34) approx. 105 Ω/km
- Capacity**
95 pF/m (Core/Core)
130 pF/m (Core/Screen)

Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper index kg/km approx.	Weight kg/km approx.
UNITRONIC® MICROPHONE BK				
3034124	1x(2x0,34)	6.4	18.0	58.0
3034125	1x(4x0,34)	6.5	29.0	67.0
3035415	1x(2x0,25)	6.2	14.3	48.0
3035556	1x(2x0,5)	6.7	21.0	56.0
3035557	2x(2x0,5)	7.9	39.6	96.0
UNITRONIC® MICROPHONE PUR BK				
3035968	1x(2x0,34)	6.4	18.0	58.0
3035969	2x(2x0,34)	6.5	29.0	67.0
UNITRONIC® MICROPHONE PUR DMX BK				
3035185	1x(2x0,25)	5.6	22.0	52.0

Copper price basis: EUR 150 / 100 kg
 Standard lengths: (100; 500; 1000) m
 Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum
 Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Comparable products

- UNITRONIC® DMX (AES/EBU) PiMF CY BK
- UNITRONIC® DMX (AES/EBU) PUR PiMF C BK



UNITRONIC® MICROPHONE BK pre-made

Pre-made with Neutrik® XLR - connectors



Info

- Low capacitance and high transmission quality



Benefits

- Additional application due to outdoor use
- Good flexibility - easy installation with tight space requirements
- Screened against interference
- Easy to wind for mobile use.

Application range

- Microphone cables for professional use in studios, radio and television and on stage. The robust black outer sheath allows the cable to be used outdoors.

Product features

- Flame retardant according to IEC 60332-1-2

Approvals (Norm references)



Design

- Extra fine strands of plain copper wires (Class 6)
- Core insulation: Polyethylene (PE)
- Cores twisted to pair in extremely short lay lengths
- Cooper wrapping
- Outer sheath of special soft-PVC, black

Technical data

Capacity
95 pF/m (Core/Core)
130 pF/m (Core/Screen)

Part number	Cable	Number of cores and mm ² per conductor	Length in m	Connector / end 1	Connector / end 2	Weight kg/piece approx.	PU
UNITRONIC® MICROPHONE BK with Neutrik XLR - Connectors							
74400000	3034124	1x(2x0,34)	1.0	Neutrik - NC3MXX	Neutrik - NC3FXX	0.1	1
74400001	3034124	1x(2x0,34)	2.5	Neutrik - NC3MXX	Neutrik - NC3FXX	0.1	1
74400002	3034124	1x(2x0,34)	5.0	Neutrik - NC3MXX	Neutrik - NC3FXX	0.3	1
74400003	3034124	1x(2x0,34)	7.5	Neutrik - NC3MXX	Neutrik - NC3FXX	0.4	1
74400004	3034124	1x(2x0,34)	10.0	Neutrik - NC3MXX	Neutrik - NC3FXX	0.5	1
74400005	3034124	1x(2x0,34)	15.0	Neutrik - NC3MXX	Neutrik - NC3FXX	0.8	1
74400006	3034124	1x(2x0,34)	20.0	Neutrik - NC3MXX	Neutrik - NC3FXX	1.0	1
Lapp Kabel Microphone BK with Neutrik XLR - connector							
74400010	3035415	1x(2x0,25)	1.0	Neutrik - NC3MXX	Neutrik - NC3FXX	0.1	1
74400011	3035415	1x(2x0,25)	2.5	Neutrik - NC3MXX	Neutrik - NC3FXX	0.1	1
74400012	3035415	1x(2x0,25)	5.0	Neutrik - NC3MXX	Neutrik - NC3FXX	0.2	1
74400013	3035415	1x(2x0,25)	7.5	Neutrik - NC3MXX	Neutrik - NC3FXX	0.4	1
74400014	3035415	1x(2x0,25)	10.0	Neutrik - NC3MXX	Neutrik - NC3FXX	0.5	1
74400015	3035415	1x(2x0,25)	15.0	Neutrik - NC3MXX	Neutrik - NC3FXX	0.7	1
74400016	3035415	1x(2x0,25)	20.0	Neutrik - NC3MXX	Neutrik - NC3FXX	1.0	1

Packaging size: Coil

Comparable products

- UNITRONIC® DMX pre-made



Info

- Pairs with foil
- Overall screen with tinned copper strands
- AES/EBU 110 Ohm compliance

UNITRONIC® AUDIO AES/EBU (TP) PIMF CY BK

Audio multicore for mobile use, single ground, braided copper screen



Info

- Copper layer over pairs
- AES/EBU 110 Ohm compliance

UNITRONIC® AUDIO AES/EBU (TP) PIMF-D BK

Audio multicore for mobile use, single ground



Info

- Copper layer over pairs
- Overall screen with tinned copper strands
- AES/EBU 110 Ohm compliance

UNITRONIC® AUDIO AES/EBU (TP) PIMF-D CY BK

Audio multicore with single screen and braided copper screen



Benefits

- Very high transmission quality, especially over long cables by low-capacity insulation.
- High flexibility through use of extra fine wire stranded conductors.
- Quick and easy handling by clear labelling of the core pairs.

Application range

- For the transfer of analogue and digital audio (AES/EBU) signals. Mobile use on stage, studio or for fixed installation.

Approvals (Norm references)



Design

UNITRONIC® AUDIO AES/EBU (TP) PIMF CY BK

- Cu strand tinned, 7x0.20 mm
- Core insulation: O2Y(S) cellular PE
- Laminated aluminium foil over each pair
- Tinned copper braid
- Outer sheath of special soft-PVC, black

UNITRONIC® AUDIO AES/EBU (TP) PIMF-D BK

- Like UNITRONIC® AUDIO AES/EBU (TP) PIMF CY BK, but with tinned copper layer over pairs and without overall copper braid

UNITRONIC® AUDIO AES/EBU (TP) PIMF-D CY BK

- Like UNITRONIC® AUDIO AES/EBU (TP) PIMF CY BK, but with tinned copper layer over pairs

Technical data

- Core identification code**
Pairs with numbers
- Minimum bending radius**
Fixed installation :
5 x cable diameter
- Range of temperature**
Fixed installation: -30°C up to +70°C
- Characteristic impedance**
Impedance 110 Ω



Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper index kg/km approx.	Weight kg/km approx.
UNITRONIC® AUDIO AES/EBU PIMF CY BK				
3034097	2x(2x0,22)	9.4	40.3	100.0
3034098	4x(2x0,22)	11.0	59.6	145.0
3034099	8x(2x0,22)	14.4	102.9	245.0
3034100	12x(2x0,22)	17.8	145.2	350.0
3034101	16x(2x0,22)	19.9	180.8	435.0
3034102	20x(2x0,22)	22.5	250.2	560.0
3034103	24x(2x0,22)	25.1	277.3	660.0
3034690	32x(2x0,22)	27.8	325.9	850.0
3034691	40x(2x0,22)	30.2	395.8	990.0
UNITRONIC® AUDIO AES/EBU PIMF-D BK				
3034672	2x(2x0,22)	9.3	38.0	82.0
3034673	4x(2x0,22)	10.9	58.0	135.0
3034674	8x(2x0,22)	14.6	100.0	240.0
3034675	12x(2x0,22)	18.0	143.4	360.0
3034676	16x(2x0,22)	20.3	213.0	460.0

Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper index kg/km approx.	Weight kg/km approx.
3034677	20x(2x0,22)	22.8	239.0	570.0
3034678	24x(2x0,22)	25.6	301.0	685.0
3034679	32x(2x0,22)	26.4	392.5	880.0
3034680	40x(2x0,22)	30.9	496.0	1,075.0
UNITRONIC® AUDIO AES/EBU PIMF-D CY BK				
3034681	2x(2x0,22)	9.8	51.2	115.0
3034682	4x(2x0,22)	11.5	84.0	175.0
3034683	8x(2x0,22)	15.2	143.0	295.0
3034684	12x(2x0,22)	18.7	214.9	425.0
3034685	16x(2x0,22)	21.0	272.0	535.0
3034686	20x(2x0,22)	23.7	355.1	680.0
3034687	24x(2x0,22)	26.5	413.7	815.0
3034688	32x(2x0,22)	29.4	517.6	1,015.0
3034689	40x(2x0,22)	32.3	662.0	1,428.0
3037232	48x(2x0,22)	31.0	610.0	1,250.0

Copper price basis: EUR 150 / 100 kg
 Standard lengths: (50; 100; 500; 1000) m
 Packaging size: Coil ≤ 30 kg, otherwise drum
 Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

UNITRONIC® AUDIO AES/EBU (TP) PIMF FRNC BK

Flame retardant, halogenfree AES/EBU cable for fix installation



Info

- Halogen-free
- Flame retardant according to IEC 60332-1-2
- AES/EBU 110 Ohm compliance

Benefits

- Space-saving by small outer diameter
- Cost saving
- Wide range of application opportunities

- AES/EBU compliant
- DMX suitable
- Impedance 110 Ω

Application range

- Production studios (digital audio - AES/EBU standard)
- Broadcast studios
- OB vehicle
- Lighting technology (DMX signals)

Approvals (Norm references)



Design

- Cu strand tinned, 7x0.20 mm
- 2 cores with drain wire 0,22 mm²
- Core insulation Cell-PE with skin (blue/white)
- Cores twisted for pair, aluminium foil, metal-side inwards
- Outer sheath FRNC, matt black, similar to RAL 9005

Product features

- Halogen-free
- Flame retardant according to IEC 60332-1-2

Technical data

- Core identification code**
Core colour code: blue/white
- Conductor stranding**
Cu strand tinned, 7x0.20 mm
- Minimum bending radius**
Fixed installation :
5 x cable diameter
- Rated voltage**
max. 50/75V AC/DC
- Test voltage**
Core/core: 1000 V
Core/shield: 500 V
- Range of temperature**
static: -30 °C up to +80 °C
moved: -5 °C up to +70 °C
- Characteristic impedance**
110 Ohm +/- 10%
- Capacity**
Core/core: approx. 45 nF/km (800 Hz)

Part number	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Copper index kg/km approx.	Weight kg/km approx.
3036959	1x(2x0,22)	3.8	6.6	20.0
3037015	4x(2x0,22)	12.4	54.0	129.0
3037016	8x(2x0,22)	16.2	81.0	191.0
3037017	12x(2x0,22)	20.0	124.8	290.0

Copper price basis: EUR 150 / 100 kg
 Standard lengths: (50; 100; 500; 1000) m
 Packaging size: Coil ≤ 30 kg, otherwise drum
 Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)



UNITRONIC® DMX (AES/EBU) PiMF CY BK

Cold flexible DMX cable with SOFT PVC outer sheath



Info

- Low capacitance and high transmission quality
- Flexible down to -30°C
- Impedance 110 Ω

UNITRONIC® DMX (AES/EBU) PUR PiMF C BK

Extremely robust DMX-cable with PUR outer sheath



Info

- Ideal for outdoor use
- Flexible down to -30°C
- Impedance 110 Ω

Benefits

- Additional application due to outdoor use
- Good flexibility - easy installation with tight space requirements
- Screened against interference
- Easy to wind for mobile use.

Application range

- The ideal cable for accurate transmission of DMX-signals between control units and dimmer, scanner, lighting units
- AES/EBU compliant

Approvals (Norm references)



- Flame retardant according to IEC 60332-1-2

Design

UNITRONIC® DMX (AES/EBU) PiMF CY BK

- Cu strand tinned, 7x0.20 mm
- Core insulation: Polyolefine
- Cores twisted to pair in extremely short lay lengths
- Screening: Aluminium laminated foil and copper braiding
- Outer sheath of special soft-PVC, black

UNITRONIC® DMX (AES/EBU) PUR PiMF C BK

- Cu strand tinned, 7x0.20 mm
- Core insulation: Polyolefine
- Cores twisted to pair in extremely short lay lengths
- Screening: Aluminium laminated foil and copper braiding
- Polyurethane-based outer sheath

Technical data

- Core identification code**
1 pair: red-white
- Conductor stranding**
Cu strand tinned, 7x0.20 mm
- Minimum bending radius**
For flexible applications: 5 x outside diameter
- Range of temperature**
-30°C up to +90°C
- Characteristic impedance**
Impedance 110 Ω

Part number	Number of cores and mm² per conductor	Outer diameter in mm approx.	Copper index kg/km approx.	Weight kg/km approx.
UNITRONIC® DMX (AES/EBU) PiMF CY BK				
3035919	1x(2x0,22)	5.1	17.0	32.5
3035920	2x(2x0,22)	7.6	33.0	63.4
UNITRONIC® DMX (AES/EBU) PUR PiMF C BK				
3035921	1x(2x0,22)	4.8	17.0	31.5
3035922	2x(2x0,22)	7.3	33.0	61.4

Copper price basis: EUR 150 / 100 kg
 Standard lengths: (50; 100; 500; 1000) m
 Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum
 Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)



UNITRONIC® DMX pre-made

DMX cable, pre-made with Neutrik® XLR - connector



Info

- Low capacitance and high transmission quality
- Flexible down to -30°C
- Impedance 110 Ω

Benefits

- Additional application due to outdoor use
- Good flexibility - easy installation with tight space requirements
- Screened against interference
- Easy to wind for mobile use.

Approvals (Norm references)

- Flame retardant according to IEC 60332-1-2

Design

- See UNITRONIC® DMX PIMF CY BK and UNITRONIC® DMX PUR PIMF C BK

Technical data

Z_∞ Info
see UNITRONIC® DMX PIMF CY BK and UNITRONIC® DMX PUR PIMF C BK

Application range

- The ideal cable for accurate transmission of DMX-signals between control units and dimmer, scanner, lighting units

Part number	Cable	Number of cores and mm ² per conductor	Length in m	Connector / end 1	Connector / end 2	Weight kg/piece approx.	Pieces / PU
UNITRONIC® DMX - AES / EBU PiMF CY BK with 3-pole Neutrik-XLR-connector							
74400100	DMX-AES/EBU PVC	1x(2x0,22)	1.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.1	1
74400101	DMX-AES/EBU PVC	1x(2x0,22)	2.5	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.1	1
74400102	DMX-AES/EBU PVC	1x(2x0,22)	5.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.2	1
74400103	DMX-AES/EBU PVC	1x(2x0,22)	7.5	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.2	1
74400104	DMX-AES/EBU PVC	1x(2x0,22)	10.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.3	1
74400105	DMX-AES/EBU PVC	1x(2x0,22)	15.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.5	1
74400106	DMX-AES/EBU PVC	1x(2x0,22)	20.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.7	1
UNITRONIC® DMX PiMF CY BK with 5-pole Neutrik XLR-connector							
74400110	DMX PiMF CY BK	2x(2x0,22)	1.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.1	1
74400111	DMX PiMF CY BK	2x(2x0,22)	2.5	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.2	1
74400112	DMX PiMF CY BK	2x(2x0,22)	5.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.3	1
74400113	DMX PiMF CY BK	2x(2x0,22)	7.5	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.5	1
74400114	DMX PiMF CY BK	2x(2x0,22)	10.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.6	1
74400115	DMX PiMF CY BK	2x(2x0,22)	15.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	1.0	1
74400116	DMX PiMF CY BK	2x(2x0,22)	20.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	1.3	1
UNITRONIC® DMX - AES / EBU PUR PiMF C BK with 3-pole Neutrik XLR-connector							
74400120	DMX-AES/EBU PUR	1x(2x0,22)	1.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.1	1
74400121	DMX-AES/EBU PUR	1x(2x0,22)	2.5	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.1	1
74400122	DMX-AES/EBU PUR	1x(2x0,22)	5.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.2	1
74400123	DMX-AES/EBU PUR	1x(2x0,22)	7.5	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.2	1
74400124	DMX-AES/EBU PUR	1x(2x0,22)	10.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.3	1
74400125	DMX-AES/EBU PUR	1x(2x0,22)	15.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.5	1
74400126	DMX-AES/EBU PUR	1x(2x0,22)	20.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.6	1
UNITRONIC® DMX PUR PiMF C BK with 5-pole Neutrik XLR-connector							
74400130	DMX PUR PiMF	2x(2x0,22)	1.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.1	1
74400131	DMX PUR PiMF	2x(2x0,22)	2.5	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.2	1
74400132	DMX PUR PiMF	2x(2x0,22)	5.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.3	1
74400133	DMX PUR PiMF	2x(2x0,22)	7.5	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.5	1
74400134	DMX PUR PiMF	2x(2x0,22)	10.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.6	1
74400135	DMX PUR PiMF	2x(2x0,22)	15.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	0.9	1
74400136	DMX PUR PiMF	2x(2x0,22)	20.0	Neutrik - NC3MXX-BAG	Neutrik - NC3FXX-BAG	1.2	1

UNITRONIC® VIDEO FLAT
Flat coax cable for your events



UNITRONIC® VIDEO RL BK
The highly flexible coax cable for events



Info

- High transmission quality
- Extremely low attenuation
- Easy operation

Info

- Highly flexible
- UV/light resistant
- Easy operation

Benefits

UNITRONIC® VIDEO FLAT

- Easy handling, e.g. behind baseboard or intermediate floor

UNITRONIC® VIDEO RL BK

- Due to the high flexibility ideal for mobile usage.

Application range

UNITRONIC® VIDEO FLAT

- Transmission of RGB video signals
- For fixed installation in sport stadium, theatre, gym, ...

UNITRONIC® VIDEO RL BK

- Transmission of video signals (RGB, RGBHV)
- For fixed installation in sport stadium, theatre, gym, etc. or for mobile use (e.g. public viewing)

Approvals (Norm references)



Design

UNITRONIC® VIDEO FLAT

- Plain solid copper conductor, 0,6 mm, dielectric Cell-PE
- Laminated aluminium foil on both sides
- Copper braiding, tinned
- Each conductor signed with an coloured fibre
- Coax elements parallel, elements divisible, outer sheath of cold resistant PVC, transparent

UNITRONIC® VIDEO RL BK

- Plain solid copper conductor, 0,6 mm, dielectric Cell-PE
- Laminated aluminium foil on both sides
- Copper braiding, tinned
- Core sheath: PVC cold-resistant
- Coax elements twisted together with soft filling elements, outer sheath of SOFT-PVC, black

Technical data



Core identification code

UNITRONIC® VIDEO RL BK

- 3 cores: red, green, blue
- 5 cores: red, green, blue, white, black
- 7 cores: red, green, blue, white, black, grey, brown



Info

UNITRONIC® VIDEO FLAT

- Damping: 100 m +20°C:
- 1 MHz = 1.1 dB/100 m
- 10 MHz = 3.8 dB/100 m
- 20 MHz = 5.2 dB/100 m
- 40 MHz = 6.7 dB/100 m
- 60 MHz = 7.5 dB/100 m
- 80 MHz = 9.0 dB/100 m
- 100 MHz = 10.2 dB/100 m
- 150 MHz = 14.9 dB/100 m
- 200 MHz = 18.7 dB/100 m
- 250 MHz = 22.6 dB/100 m

UNITRONIC® VIDEO RL BK

- Damping: 100 m / + 20°C:
- 1 MHz 1.2 dB/100 m
- 10 MHz 4.0 dB/100 m
- 20 MHz 5.2 dB/100 m
- 40 MHz 6.7 dB/100 m
- 60 MHz 8.0 dB/100 m
- 80 MHz 9.5 dB/100 m
- 100 MHz 11 dB/100 m



Conductor stranding

Single wire (solid conductor)



Minimum bending radius

UNITRONIC® VIDEO RL BK

Flexing: 15 x cable diameter



Range of temperature

Occasional flexing: -25°C up to +70°C



Characteristic impedance

75 Ohm

Capacity

UNITRONIC® VIDEO FLAT

56 nF/km

UNITRONIC® VIDEO RL BK

3x0,6: 55 nF/km

5x0,6: 55 nF/km

7x0,6: 58 nF/km

Part number	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Copper index kg/km approx.	Weight kg/km approx.
UNITRONIC® VIDEO FLAT				
3034116	3x(COAX RGB 0,6 / 2,8)	14.8 x 4.6	37.0	87.0
UNITRONIC® VIDEO RL BK				
3034117	3x(COAX RGB 0,6 / 2,8 ST C)Y	11.2	37.0	121.0
3034118	5x(COAX RGB 0,6 / 2,8 ST C)Y	13.6	59.0	188.0
3034119	7x(COAX RGB 0,6 / 2,8 ST C)Y	15.0	82.0	240.0

Copper price basis: EUR 150 / 100 kg
Standard lengths: (50; 100; 500; 1000) m
Packaging size: Coil ≤ 30 kg, otherwise drum
Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)



UNITRONIC® VIDEO pre-made

Pre-made with TELEGÄRTNER BNC - connectors



UNITRONIC® VIDEO pre-made



Info

- High transmission quality
- Extremely low attenuation
- Easy operation

Benefits

- Easy operation

Approvals (Norm references)



Technical data



Info

see UNITRONIC® VIDEO FLAT und RL

Application range

- For fixed installation in sport stadium, theatre, gym, ...
- For mobile use
- Transmission of video signals (RGB, RGBHV)

Design

- See UNITRONIC® VIDEO FLAT und RL

Part number	Cable	Number of cores and mm² per conductor	Length in m	Connector / end 1	Connector / end 2	Weight kg/piece approx.	PU
UNITRONIC® Video Flat with Telegärtner BNC - Connector							
74400600	3034116	3x0,6/2,8	0,5	3 x BNC	3 x BNC	0,1	1
74400601	3034116	3x0,6/2,8	1,0	3 x BNC	3 x BNC	0,1	1
74400602	3034116	3x0,6/2,8	2,0	3 x BNC	3 x BNC	0,2	1
74400603	3034116	3x0,6/2,8	5,0	3 x BNC	3 x BNC	0,4	1
74400604	3034116	3x0,6/2,8	10,0	3 x BNC	3 x BNC	0,9	1
74400605	3034116	3x0,6/2,8	20,0	3 x BNC	3 x BNC	1,7	1
UNITRONIC® Video RL BK with Telegärtner BNC - connector							
74400610	3034117	3x0,6/2,8	0,5	3 x BNC	3 x BNC	0,1	1
74400611	3034117	3x0,6/2,8	1,0	3 x BNC	3 x BNC	0,1	1
74400612	3034117	3x0,6/2,8	2,0	3 x BNC	3 x BNC	0,2	1
74400613	3034117	3x0,6/2,8	5,0	3 x BNC	3 x BNC	0,6	1
74400614	3034117	3x0,6/2,8	10,0	3 x BNC	3 x BNC	1,2	1
74400615	3034117	3x0,6/2,8	20,0	3 x BNC	3 x BNC	2,4	1
UNITRONIC® Video RL BK with Telegärtner BNC - connector							
74400620	3034118	5x0,6/2,8	0,5	5 x BNC	5 x BNC	0,1	1
74400621	3034118	5x0,6/2,8	1,0	5 x BNC	5 x BNC	0,2	1
74400622	3034118	5x0,6/2,8	2,0	5 x BNC	5 x BNC	0,4	1
74400623	3034118	5x0,6/2,8	5,0	5 x BNC	5 x BNC	0,9	1
74400624	3034118	5x0,6/2,8	10,0	5 x BNC	5 x BNC	1,9	1
74400625	3034118	5x0,6/2,8	20,0	5 x BNC	5 x BNC	3,8	1
UNITRONIC® Video RL BK with Telegärtner BNC - connector							
74400630	3034033	1x0,6/3,7	0,5	1 x BNC	1 x BNC	0,1	1
74400631	3034033	1x0,6/3,7	1,0	1 x BNC	1 x BNC	0,1	1
74400632	3034033	1x0,6/3,7	2,0	1 x BNC	1 x BNC	0,1	1
74400633	3034033	1x0,6/3,7	5,0	1 x BNC	1 x BNC	0,2	1
74400634	3034033	1x0,6/3,7	10,0	1 x BNC	1 x BNC	0,5	1
74400635	3034033	1x0,6/3,7	20,0	1 x BNC	1 x BNC	0,9	1
UNITRONIC® Video RL BK with Telegärtner BNC - connector							
74400640	3034036	1x0,6/2,8	0,5	1 x BNC	1 x BNC	0,1	1
74400641	3034036	1x0,6/2,8	1,0	1 x BNC	1 x BNC	0,1	1
74400642	3034036	1x0,6/2,8	2,0	1 x BNC	1 x BNC	0,1	1
74400643	3034036	1x0,6/2,8	5,0	1 x BNC	1 x BNC	0,2	1
74400644	3034036	1x0,6/2,8	10,0	1 x BNC	1 x BNC	0,3	1
74400645	3034036	1x0,6/2,8	20,0	1 x BNC	1 x BNC	0,6	1

Packaging size: Coil

Comparable products

- UNITRONIC® VIDEO FLAT
- UNITRONIC® VIDEO RL BK

UNITRONIC COAXIAL 75 Ω MINI BK SAT

Benefits

- Small and space-saving for narrow available space

Application range

- Satellite Setup

Design

- Inner Conductor: steel-copper
- Dielectric: Cell-PE
- Screen: alum. foil + tinned copper screen
- Outer sheath: PVC



Info

- Lower space requirement



Part number	Article designation	Outer diameter in mm max.	Conductor diameter	Dielectric Ø	Sheath material	Characteristic impedance Ohm	Copper index kg/km	Weight kg/km approx.
UNITRONIC COAXIAL 75 Ω MINI BK SAT								
3034026	UNITRONIC COAXIAL 75 Ω MINI BK SAT	3.6	0.4	1.9	PVC	75 +/- 3	11.9	18.0

UNITRONIC COAXIAL 75 Ω HALOGENFREE

Benefits

- Protection of human life and the environment caused by the formation of acid in case of fire

Application range

- Satellite Setup
- Broadband cable network

Product features

- Halogen-free
- Flame retardant
- Shielding factor: > 75 dB

Design

- Inner Conductor: bare stranded copper conductor
- Dielectric: Cell-PE
- Screen: alum. foil + tinned copper screen
- Outer sheath: FRNC



Info

- Halogen-free
- Flame retardant



Part number	Article designation	Outer diameter in mm max.	Conductor diameter	Dielectric Ø	Characteristic impedance Ohm	Copper index kg/km	Weight kg/km approx.
UNITRONIC COAXIAL 75 Ω HALOGEN FREE							
3034027	UNITRONIC COAXIAL 75 Ω HALOGEN FREE	6.8	1.1	4.8	75 +/- 3	17.5	48.0

UNITRONIC COAXIAL 75 Ω DIGITAL SAT SPECIAL

Benefits

- Satisfies the most demanding electrical and mechanical requirements.

Application range

- Digital satellite setup
- Back channel capable

Product features

- Qualified for digital installations
- Excellent damping values
- Non-ageing
- Meets the requirements according to EN 50117
- Shielding factor: > 90 dB (50 - 3000 MHz)

Design

- Inner Conductor: bare stranded copper conductor
- Dielectric: Cell-PE
- Screen: alum. foil + tinned copper screen
- Outer sheath: PVC



Info

- The digital standard



Part number	Article designation	Outer diameter in mm max.	Conductor diameter	Dielectric Ø	Characteristic impedance Ohm	Copper index kg/km	Weight kg/km approx.
UNITRONIC COAXIAL 75 Ω DIGITAL SAT SPEZIAL							
3034028	UNITRONIC COAXIAL 75 Ω DIGITAL SAT SPEZIAL	6.8	1.1	4.8	75 +/- 3	25.0	55.0





UNITRONIC COAXIAL 75 Ω TV FOR BK- A. TERR. APPLICATION



Benefits

- Wide range of application opportunities
- Cost saving

Application range

- Satellite Setup
- Broadband cable network
- Terrestrial systems

Product features

- Shielding factor: > 75 dB

Design

- Inner Conductor: bare stranded copper conductor
- Dielectric: PE
- Screen: alum. foil + tinned copper screen
- Outer sheath: PVC



Info

- The standard

Part number	Article designation	Outer diameter in mm max.	Conductor diameter	Dielectric Ø	Characteristic impedance Ohm	Copper index kg/km	Weight kg/km approx.
UNITRONIC COAXIAL 75 Ω TV FOR BK- A. TERR. APPLICATION							
3034029	UNITRONIC COAXIAL 75 Ω TV FOR BK- A. TERR. APPLICATION	6.5	0.7	4.4	75 +/- 3	12.0	44.0

UNITRONIC COAXIAL 75 Ω TWIN



Benefits

- Fast installation in one step
- Cost saving because of quick and easy installation

Application range

- Satellite Setup
- SAT-Twin-LNB

Product features

- Shielding factor: > 75 dB
- Twinaxial construction

Design

- Inner Conductor: bare stranded copper conductor
- Dielectric: Cell-PE
- Screen: alum. foil + tinned copper screen
- Outer sheath: PVC



Info

- Two in one

Part number	Article designation	Outer diameter in mm max.	Conductor diameter	Dielectric Ø	Characteristic impedance Ohm	Copper index kg/km	Weight kg/km approx.
UNITRONIC COAXIAL 75 Ω TWIN							
3034030	UNITRONIC COAXIAL 75 Ω TWIN	5.5	0.7	3.4	75 +/- 3	21.0	70.0

UNITRONIC COAXIAL 75 Ω QUATTRO

Benefits

- Fast installation in one step
- Cost saving because of quick and easy installation
- Satisfies the most demanding electrical and mechanical requirements.

Application range

- Digital satellite setup

Product features

- Qualified for digital installations
- Non-ageing
- High security in EMC-critical environments
- Meets the requirements according to EN 50117
- Shielding factor: > 90 dB

Design

- Inner Conductor: bare stranded copper conductor
- Dielectric: Cell-PE
- Screen: alum. foil + tinned copper screen
- Outer sheath: PVC
- Outer sheath: PVC approx. 12,6 mm



Info

- Four in one
- Digital satellite setup



Part number	Article designation	Outer diameter in mm max.	Conductor diameter	Dielectric Ø	Characteristic impedance Ohm	Copper index kg/km	Weight kg/km approx.
UNITRONIC KOAXIAL 75 Ω QUATTRO							
3034031	UNITRONIC KOAXIAL 75 Ω QUATTRO	12.6	0.6	3.0	75 +/- 3	50.0	145.0

UNITRONIC COAXIAL 75 Ω OUTDOOR CABLE

Benefits

- Saving costs due to long lifetime
- Wide range of application opportunities

Application range

- Satellite Setup
- Broadband cable network
- Outdoor use and direct burial

Product features

- UV resistant
- Weather-resistant
- Suitable for direct burial

Design

- Inner Conductor: bare stranded copper conductor
- Dielectric: Cell-PE
- Screen: alum. foil + tinned copper screen
- Outer sheath: PE black



Info

- UV resistant and weather proof
- Outdoor use and direct burial



Part number	Article designation	Outer diameter in mm max.	Conductor diameter	Dielectric Ø	Characteristic impedance Ohm	Copper index kg/km	Weight kg/km approx.
UNITRONIC COAXIAL 75 Ω OUTDOOR CABLE							
3034032	UNITRONIC COAXIAL 75 Ω OUTDOOR CABLE	6.8	1.1	4.8	75 +/- 3	17.5	48.0



UNITRONIC COAXIAL 75 Ω VIDEO CABLE



Benefits

- Fast and easy assembly
- Wide range of application opportunities

Application range

- Cross-linking of video surveillance systems
- Turnable camera

Product features

- Flexible use

Design

- Inner Conductor: bare stranded copper conductor
- Dielectric: PE
- Screen: copper screen
- Outer sheath: PVC green



Info

- The flexible videocable

Part number	Article designation	Outer diameter in mm max.	Conductor diameter	Dielectric Ø	Characteristic impedance Ohm	Copper index kg/km	Weight kg/km approx.
UNITRONIC COAXIAL 75 Ω VIDEO CABLE							
3034033	UNITRONIC COAXIAL 75 Ω VIDEO CABLE	6.1	0.2	1.9	75 +/- 3	24.0	45.0

UNITRONIC COAXIAL 75 Ω SAT 100 DB



Benefits

- Safe investment
- Reserve capacity for future requirements
- Wide range use

Application range

- High-End digital reception

Product features

- Qualified for digital installations
- Shielding factor: > 100 dB

Design

- Inner Conductor: bare stranded copper conductor
- Dielectric: Cell-PE
- Screen: alum. foil + tinned copper screen
- Outer sheath: PVC



Info

- High-End digital cable
- Shielding factor: > 100 dB

Part number	Article designation	Outer diameter in mm max.	Conductor diameter	Dielectric Ø	Characteristic impedance Ohm	Copper index kg/km	Weight kg/km approx.
UNITRONIC COAXIAL 75 Ω SAT 100 DB							
3034034	UNITRONIC COAXIAL 75 Ω SAT 100 DB	7.0	1.0	4.6	75 +/- 3	15.0	44.0

UNITRONIC COAXIAL 75 Ω (0,6/3,7) + AUDIO 2x0,75

Benefits

- Fast installation in one step
- Cost saving because of quick and easy installation



Info

- **Combi cable: Video & Power**



Application range

- Cross-linking of video surveillance systems

Product features

- Twinaxial construction (Video & Power)

Design

- (VIDEO) Inner Conductor: bare stranded copper conductor 0,60 mm
- Dielectric: PE
- Screen: tinned copper screen
- Outer sheath: PVC
- (AUDIO) 2 cores 0,75 mm red/white

Part number	Article designation	Outer diameter in mm max.	Conductor diameter	Dielectric Ø	Characteristic impedance Ohm	Copper index kg/km	Weight kg/km approx.
3034035	UNITRONIC COAXIAL 75 Ω (0,6/3,7) + AUDIO 2x0,75	11.8	0.6	3.7	75 +/- 3	38.0	99.0

UNITRONIC COAXIAL 75 Ω (0,6/2,8) VIDEO green FRNC

Benefits

- Lower space requirement
- Meets the requirements according to EN 50117



Info

- **Halogen-free**
- **Flame retardant**
- **High security in EMC-critical environments**



Application range

- Transmission of video signals

Product features

- Meets the requirements according to EN 50117
- Outer sheath green
- Halogen-free
- Flame retardant

Design

- Inner Conductor: bare stranded copper conductor
- Dielectric: Cell-PE
- Screen: tinned copper screen
- Outer sheath: FRNC mix

Part number	Article designation	Outer diameter in mm max.	Conductor diameter	Dielectric Ø	Characteristic impedance Ohm	Copper index kg/km	Weight kg/km approx.
3034036	UNITRONIC COAXIAL 75 Ω (0,6/2,8) VIDEO green FRNC	4.5	0.6	2.8	75 +/- 3	15.0	29.0



UNITRONIC COAXIAL 75 Ω (0,8/3,7) VIDEO green



Benefits

- Meets the requirements according to EN 50117
- High security in EMC-critical environments
- Suitable for long distance transmission

Application range

- Transmission of video signals

Product features

- Suitable for long distance transmission
- High security in EMC-critical environments
- Meets the requirements according to EN 50117

Design

- Inner Conductor: bare stranded copper conductor
- Dielectric: Cell-PE
- Screen: alum. foil + tinned copper screen
- Outer sheath: PVC green



Info

- Meets the requirements according to EN 50117

Part number	Article designation	Outer diameter in mm max.	Conductor diameter	Dielectric Ø	Characteristic impedance Ohm	Copper index kg/km	Weight kg/km approx.
UNITRONIC KOAXIAL 75 Ω (0,8/3,7) VIDEO green							
3034037	UNITRONIC KOAXIAL 75 Ω (0,8/3,7) VIDEO green	5.9	0.8	3.7	75 +/- 3	20.5	47.0



UNITRONIC® Combi cable

Allround cable with high flexibility, easy handling and optimum electrical values



Info

Benefits

- Very flexible and robust.
- Universally useable
- Hybrid design saves space.
- Use indoors and outdoors because UV-resistant due to black sheath.

Application range

- These combination cables can be used in many ways in audio, video, BUS and power applications.

- Ideal for use in the studio, for stage lighting in theatres and during concerts as well as for public buildings. For use indoors and outdoors.

Approvals (Norm references)



Design

- Detailed Data Sheets are available on request. Please state precise type of cable and dimension.

Technical data

- Info**
Detailed Data Sheets are available on request. Please state precise type of cable and dimension.
- Minimum bending radius**
In fixed installations:
10 x cable diameter
- Range of temperature**
Occasional flexing: -25°C up to +70°C

Part number	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Copper index kg/km approx.	Weight kg/km approx.
UNITRONIC® VIDEO/AUDIO/NET BK				
3034437	(3G2,5C)Y+5x0,6 / 2,8(RGB Coax Al C)+ 2x(2x0,14 AL D)Y	21.6	166.0	490.0
3034438	(3G1,5C)12Y+3x(RGB Coax AL C)11Y+4x(2x0,14 ALD) 11Y	17.0	205.0	390.0
UNITRONIC® VIDEO/AUDIO/CONTROL BK				
3034439	4x1,5+7x0,38 / 1,6 (RGB Coax C)Y+9x0,14+(1x0,14 D)Y+2x(2x0,14 AL D)Y+2xLWL	15.0	215.0	323.0
UNITRONIC® VIDEO/AUDIO/LAN/NET BK				
3034440	(3G2,5C)Y+8x(RGB Coax AL C)Y+2x(2x0,14 AL D)Y+2x(4x2x23AWG STP / S CAT.6)Y+2xLWL	26.5	235.0	700.0
UNITRONIC® LIGHT NET BK				
3035377	(3G1,5)Y+1x(2x0,14 AL D)Y	13.5	78.0	250.0
3035010	(3G1,5)Y+2x(2x0,14 AL D)Y	16.0	83.6	319.0
3035429	(3G1,5)Y+4x(2x0,14 AL D)Y	17.5	101.7	290.0
3035154	(3G1,5)Y+1x(2x0,25 AL D)Y	15.2	68.0	250.0
3035155	(3G1,5)Y+2x(2x0,25 AL D)Y	17.2	90.0	345.0
3035156	(3G1,5)Y+3x(2x0,25 AL D)Y	18.6	83.2	418.0
3035157	(3G1,5)Y+4x(2x0,25 AL D)Y	21.2	142.2	519.0
3035161	(3G2,5)Y+1x(2x0,25 AL D)Y	17.6	98.0	347.0
3035162	(3G2,5)Y+2x(2x0,25 AL D)Y	18.2	123.0	410.0
3035163	(3G2,5)Y+3x(2x0,25 AL D)Y	19.8	149.0	485.0
3035164	(3G2,5)Y+4x(2x0,25 AL D)Y	21.8	174.0	578.0
3035014	5G2,5+2x(2x0,22 AL D)Y	12.8	144.0	290.0
UNITRONIC® STAGE CONTROL NET BK				
3035937	6x2xAWG26 / 7(STC2Y)+4x2,5+4x1,5+5x0,5	18.5	322.4	544.0
UNITRONIC® AUDIO DATA NET				
3035890	3G1,5+2x(2x0,22STCY)+4x2xAWG26 CAT.5e CY)Y	15.4	106.0	249.0

Copper price basis: EUR 150 / 100 kg
 Standard lengths: (50; 100; 500; 1000) m
 Packaging size: Coil ≤ 30 kg, otherwise drum
 Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)



ETHERLINE® CAT.5 FD P BK

The Ethernet cable for event technique

LAPP KABEL STUÛGART ETHERLINE® CAT.5 FD BK



Info

- Highly flexible
- Usable for road
- CAT.5-Performance

Benefits

- Due to usage of Etherline cables the cost of installation is very low
- Additional application due to outdoor use
- Good flexibility - easy installation with tight space requirements
- Screened against interference
- Easy to wind for mobile use.

- Complied standards EIA/TIA-568, TSB-36 und ISO/IEC IS 11801

Approvals (Norm references)



Design

- Bare copper wire, 26AWG (19x 0.10), (0.14 mm²)
- Insulation: foam-skin, core diameter max. 1.0 mm
- Twisting: 2 cores twisted pairs, stranding from 4 pairs
- Inner sheath: halogen-free compound of TPE
Screening: braid of tinned copper wires, coverage 85% ± 5
- Sheath: PUR, halogen-free, black

Application range

- Suitable for the transfer of audio data (ETHERSOUND), light control data (DMX over Ethernet), or for computer networking

Product features

- ETHERLINE® CAT.5 FD BK is a halogen-free CATEGORY 5 high speed data transmission cable suitable for application in road environments

Technical data



Core identification code

- Pair 1: white/blue and blue
- Pair 2: white/orange and orange
- Pair 3: white/green and green
- Pair 4: white/brown and brown



Minimum bending radius

95 mm



Range of temperature

Flexible application:
-5 °C up to +50 °C
Fixed installation: -40 °C up to +70 °C

Part number	Number of cores and mm ² per conductor	Outer diameter in mm approx.	Copper index kg/km approx.	Weight kg/km approx.
CE217489	4x2xAWG26/19	6.3	27.0	54.0

Copper price basis: EUR 150 / 100 kg
Standard lengths: (100; 500; 1000) m
Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum
Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)

Comparable products

- ETHERLINE® FD P CAT.5



ETHERLINE® 4-pairs CAT.6a + CAT.7



Benefits

- ETHERNET with the globally accepted TCP/IP protocol will most probably either provide a connection to the established “Fieldbus World” or the Sensor-Actuator level. Either via a gateway to the “Fieldbus World” or straight through downwards to the lowest communication level. The transmission rates are presently either 10 Mbit/s (ETHERNET) or at least 100 Mbit/s = LAN CAT.5 requirements (Fast Ethernet = Industrial Ethernet) respectively CAT.6a or CAT.7 requirements.
- CAT.6a = 500 MHz

- CAT.7 = 600 MHz

Product features

- All ETHERLINE® cables with a cross section of AWG22 are PROFINET® compliant.
- Colour: yellow green (RAL 6018)
- Characteristic impedance: 100 Ohm at 1-100 MHz

Technical data

- Info**
Further technical data: see Data Sheet
- Characteristic impedance**
100 Ohm at 1 - 100 MHz

Approvals (Norm references)



Part number	Article designation	Number of pairs and dimensions	Outer diameter in mm max.	Copper index kg/km	Weight kg/km approx.
Conductor AWG22 = PROFINET-conform (outer sheath colour yellow-green RAL 6018) for fixed installation (solid conductor) = Type A					
2170464	ETHERLINE® Y PIMF CAT.6a	4 x 2 x AWG22/1	8.7	53.0	98.0
2170465	ETHERLINE® P PIMF CAT.6a	4 x 2 x AWG22/1	8.7	53.0	91.0
2170466	ETHERLINE® H PIMF CAT.6a	4 x 2 x AWG22/1	8.7	53.0	99.0
2170474	ETHERLINE® Y PIMF CAT.7	4 x 2 x AWG22/1	8.7	53.0	98.0
2170475	ETHERLINE® P PIMF CAT.7	4 x 2 x AWG22/1	8.7	53.0	91.0
2170476	ETHERLINE® H PIMF CAT.7	4 x 2 x AWG22/1	8.7	53.0	99.0

Copper price basis: EUR 150 / 100 kg
 www.lappkabel.de/en/cable-standardlengths
 Packaging size: Coil ≤ 30 kg and ≤ 250 m, otherwise drum
 Please specify the desired packaging size (e.g. 1 x 500 m drum or 5 x 100 m coils)
 PROFINET® is a registered trademark of the PNO (PROFIBUS user organisation)

Accessories

- DATA STRIP stripping tool

UNITRONIC® LAN STP/S PiMF 600 MHz - CAT.7



Benefits

- LAN cables for structured cabling - Class F

Application range

- LAN CAT.7* cable for high speed networks (e.g. Gigabit-ETHERNET). They exceed the requirements according to EIA/TIA-568 and TSB36 as well as ISO/IEC 11801 or EN 50173 (Class D).

Product features

- Cable length in tertiary area (horizontal area, floor) should not exceed a length of 100 m in accordance with the ISO/IEC 11801 and EN 50173 standards (90 m in cable duct + 10 m in working area)

- All STP/STP PiMF cables: characteristic impedance 100 Ohm ± 15 %.
- LAN CAT-7* cables are specified up to 600 MHz

Approvals (Norm references)



- Class F in standard corresponds to CAT.7

Design

- Shielded Twisted Pair / Screened PiMF
- 4 individually screened pairs (aluminium foil) with overall screening (copper braid)
- Solid conductor

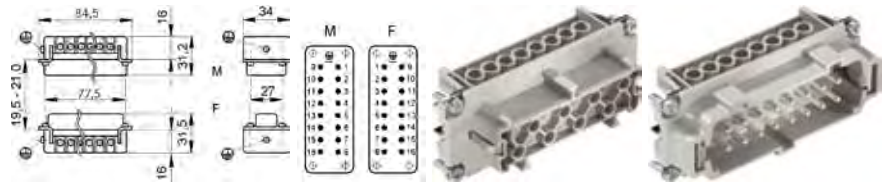
Technical data

Characteristic impedance
100 Ohm +/- 15%

Part number	Article designation	Number of pairs and dimensions	Outer diameter in mm max.	Copper index kg/km	Weight kg/km approx.
Halogen-free versions					
2170614	STP/S-H PiMF 600 MHz CAT.7*	4 x 2 x AWG23	7.9	27.0	78.0
2170634	STP/S-H PiMF 600 MHz CAT.7* DUPLEX	2 x (4 x 2 x AWG23)	7.9 x 16.8	54.0	156.0

Copper price basis: EUR 150 / 100 kg
www.lappkabel.de/en/cable-standardlengths
Packaging size: Coil 100 m; Drum (500; 1000) m
More detailed data sheet on request. Please specify the required type.

EPIC® H-BE 16 Screw termination



EPIC® H-BE 16 Crimp termination



EPIC® H-BE 16 Cage clamp



Suitable housing:

- EPIC® H-B 16 Housings page
- Additional support for selection of inserts and housings, please refer to the Selection Table A10

Suitable contacts:

EPIC® H-BE 16 Crimp termination

- EPIC® H-BE 2,5 machined contacts page [P552]

Benefits

- Standard inserts with screw, crimp and cage clamp termination
- The EPIC® H-BE series are suitable in applications that require a reliable connection working with high voltages and current

Application range

- Mechanical engineering
- Light & Sound technology
- Plastics industry

Suitable tools

EPIC® H-BE 16 Screw termination

- MULTICRIMP 6 crimping pliers
- Kraftform® adjustable torque screwdriver/ Kraftform Kompakt® Set
- Recommended crimping tool when conductor end sleeves are used

Technical data

Rated voltage in V

IEC: 500 V
UL: 600 V
CSA: 600 V

Rated impulse Voltage

6 kV

Rated current in A

IEC: 16 A
UL: 16 A
CSA: 16 A

Pollution degree

3

Contact resistance

EPIC® H-BE 16 Screw termination
< 2 mΩ

EPIC® H-BE 16 Crimp termination
< 2 mΩ

EPIC® H-BE 16 Cage clamp
1.5 - 4 mΩhm

Contacts

EPIC® H-BE 16 Screw termination

Copper alloy, hard silver plated

EPIC® H-BE 16 Crimp termination

Copper alloy, hard silver / gold plated

EPIC® H-BE 16 Cage clamp

Copper alloy, hard silver plated

Number of contacts

16 + PE

Termination methods

EPIC® H-BE 16 Screw termination

Screw termination: 0.5 - 2.5 mm²

EPIC® H-BE 16 Crimp termination

Crimp termination: 0.5 - 4.0 mm²

EPIC® H-BE 16 Cage clamp

Cage clamp termination: 0.5 - 2.5 mm²

Cycle of mechanical operation

100

Range of temperature

-40°C - +100°C, temporary up to +125°C

VDE tested

EPIC® H-BE 16 Screw termination

VDE-REG.-No. 437

EPIC® H-BE 16 Crimp termination

VDE-REG.-No. 437

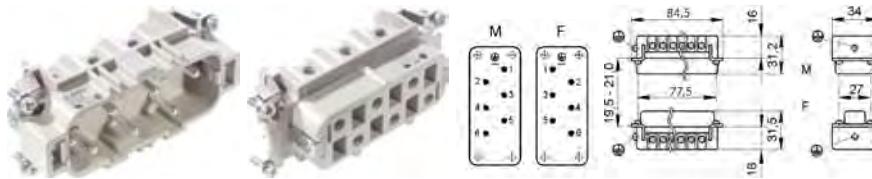


Part number	Part	Version	Wire protection	Type	Contacts	Pieces / PU
H-BE 16 screw termination						
10194000	H-BE 16 SS	male	yes		1-16	5
10195000	H-BE 16 BS	female	yes		1-16	5
10194100	H-BE 16 SS	male			1-16	5
10195100	H-BE 16 BS	female			1-16	5
H-BE 16 crimp termination						
10184000	H-BE 16 SCM	male		machined	1-16	5
10185000	H-BE 16 BCM	female		machined	1-16	5
H-BE 16 cage clamp termination						
10400200	H-BE 16 SF	male			1-16	5
10401200	H-BE 16 BF	female			1-16	5

Rectangular connectors

EPIC® H-BS Inserts

EPIC® H-BS 6



EPIC® H-BS 12



Suitable housing:

EPIC® H-BS 6

- EPIC® H-B 16 Housings page

EPIC® H-BS 12

- EPIC® H-B 32 Housings page
- Additional support for selection of inserts and housings, please refer to the Selection Table A10

Benefits

EPIC® H-BS 6

- For current strengths up to 35A
- With screw termination up to a cross-sectional of 6 mm²

EPIC® H-BS 12

- For current strengths up to 35A
- With screw termination up to a cross-sectional of 6 mm²
- Two H-BS 6 inserts with different contact numbering for one housing.

Application range

- Plant engineering and construction

Suitable tools

EPIC® H-BS 6

- Kraftform® adjustable torque screwdriver/ Kraftform Kompakt® Set

Technical data

Rated voltage in V

IEC: 400 V

UL: 600 V

CSA: 600 V

Rated impulse Voltage

6 kV

Rated current in A

IEC: 35 A

UL: 35 A

CSA: 35 A

Pollution degree

3

Contact resistance

< 2 mΩ

Contacts

Copper alloy, hard silver plated

Number of contacts

EPIC® H-BS 6

6 + PE

EPIC® H-BS 12

12 + PE

Termination methods

Screw connection: 0.5 - 6 mm²

Cycle of mechanical operation

100

Range of temperature

-40°C - +100°C, temporary up to +125°C

VDE tested

VDE-REG.-No. 437



Part number	Part	Version	Wire protection	Contacts	Pieces / PU
H-BS 6 screw termination					
10170000	H-BS 6 SS	male	yes	1 - 6	5
10171000	H-BS 6 BS	female	yes	1 - 6	5
H-BS 12 screw termination					
10170600	H-BS 6 SS	male	yes	7 - 12	5
10171600	H-BS 6 BS	female	yes	7 - 12	5

EPIC® H-BE 16 Kits

EPIC KIT H-BE 16 SS TG M25



- Female insert EPIC® H-BE 16 screw termination
- With wire protection
- Hood EPIC® H-B 16

Part number	Pieces / PU
75009645	1

Part numbers for single components

- H-BE 16 SS 10194000 (page 53)
- H-B 16 TG M25 19080000

EPIC KIT H-BE 16 SS TS M25



- Female insert EPIC® H-BE 16 screw termination
- With wire protection
- Hood EPIC® H-B 16

Part number	Pieces / PU
75009646	1

Part numbers for single components

- H-BE 16 SS 10194000 (page 53)
- H-B 16 TS M25 19082000

EPIC KIT H-BE 16 BS AG



- Female insert EPIC® H-BE 16 screw termination
- With wire protection
- Panel mount base EPIC® H-B 16

Part number	Pieces / PU
75009647	1

Part numbers for single components

- H-BE 16 BS 10195000 (page 53)
- H-B 16 AG 10072000

EPIC KIT H-BE 16 BS SGR M25



- Female insert EPIC® H-BE 16 screw termination
- With wire protection
- Surface mount base EPIC® H-B 16

Part number	Pieces / PU
75009648	1

Part numbers for single components

- H-BE 16 BS 10195000 (page 53)
- H-B 16 SGR M25 19074000

EPIC KIT H-BE 16 BS TBF M25



- Female insert EPIC® H-BE 24 screw termination
- With wire protection
- Cable coupler EPIC® H-B 16

Part number	Pieces / PU
75009649	1

Part numbers for single components

- H-BE 16 BS 10195000 (page 53)
- H-B 16 TBF M25 19086000



Info

- Complete connectors - easy to order

Benefits

- Prepacked kits with suitable components
- Uncomplicated ordering
- Reduced misplaced orders

Technical data

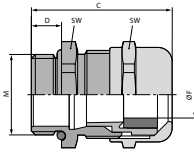
- Rated voltage in V**
IEC: 500 V
UL: 600 V
CSA: 600 V
- Rated current in A**
IEC: 16 A
UL: 16 A
CSA: 16 A
- Number of contacts**
16 + PE

New

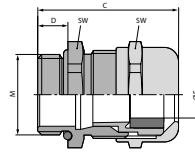
SKINTOP® MS-M / SKINTOP® MSR-M



SKINTOP® MS-M



SKINTOP® MSR-M



Info

- SKINTOP® MS-M 75x1,5 with innovative double lamella gasket for easier assembling of cables with large diameters.

Benefits

SKINTOP® MS-M

- Maximum reliability
- Optimal strain relief
- Large, variable clamping ranges
- For cable diameters up to 68 mm

SKINTOP® MSR-M

- Benefits see SKINTOP® MS-M

Application range

SKINTOP® MS-M

- In areas with high demands on special mechanical and chemical stability.
- Chemical industry
- Measurement and control technology
- Machine and apparatus construction
- Plant engineering and construction

SKINTOP® MSR-M

- With reducing seal insert, to seal cables with smaller outer diameters.

Approvals (Norm references)



Design

- Metric connection thread acc. to EN 50262

Note

- Counter nut to be used SKINDICHT® SM-M
- For suitable accessories see SKINTOP® metric accessories

Suitable cables:

SKINTOP® MS-M

- For IP 69 K applications we recommend to use the following cables:
ÖLFLEX® ROBUST 200
ÖLFLEX® AQUA RN8
ÖLFLEX® AQUA BAM

Technical data

- Caution**
Installation dimensions and tightening torques see Appendix T21
- Approvals**
UL, CSA, DNV approval for size M75x1,5 pending
- Material**
Body: Nickel plated brass
Insert: Polyamide
Seal: CR
O-ring: NBR
- Degree of protection**
IP 68 - 10 bar
IP 69 K
- Range of temperature**
-30°C up to +100°C

Part number	Part designation / size	Clamping range ØF mm	SW mm	Overall length C mm	Thread length D mm	Pieces / PU
SKINTOP® MS-M						
53112000	12 x 1,5	3-7	16	26.5	6.5	100
53112010	16 x 1,5	4,5-10	20	32.0	7.0	100
53112020	20 x 1,5	7-13	24	35.5	8.0	50
53112030	25 x 1,5	9-17	29	37.5	8.0	25
53112040	32 x 1,5	11-21	36	42.2	9.0	25
53112050	40 x 1,5	19-28	45	49.5	9.0	10
53112060	50 x 1,5	27-35	54	52.0	10.0	5
53112070	63 x 1,5	34-45	67	61.3	15.0	5
53112080	63 x 1,5 plus	44-55	75	65.5	15.0	5
53112510	75 x 1,5	58-68	95	105.0	15.0	1
SKINTOP® MSR-M						
53112100	12 x 1,5	1-5	16	26.5	6.5	100
53112110	16 x 1,5	2-7	20	32.0	7.0	100
53112120	20 x 1,5	5-10	24	35.5	8.0	50
53112130	25 x 1,5	6-13	29	37.5	8.0	25
53112140	32 x 1,5	7-15	36	42.2	9.0	25
53112150	40 x 1,5	15-23	45	49.5	9.0	10
53112160	50 x 1,5	22-29	54	52.0	10.0	5
53112170	63 x 1,5	28-39	67	61.3	15.0	5
53112511	75 x 1,5	53-63	95	105.0	15.0	1
53112515	75 x 1,5	53-63	95	105.0	15.0	1

Accessories

SKINTOP® MS-M

- SKINDICHT® SM-M
- SKINTOP® DIX-M
- SKINTOP® DIX-M AUTOMATION
- SKINTOP® SDV-M ATEX
- SKINTOP® SD-M
- SKINTOP® DV-M

SKINTOP® MSR-M

- SKINDICHT® SM-M
- SKINTOP® SDVR-M ATEX
- SKINTOP® SD-M

You can order these articles from our website www.lappgroup.com/advertising

Guide, advisor, reference book

In this book, the reader will find all that is worth knowing about the generation, use, and distribution of electricity, as well as the technology of data communication, cables, control cables, and optic fibres. All of these

topics are illustratively described and supplemented with articles, tables and specialist terminology.

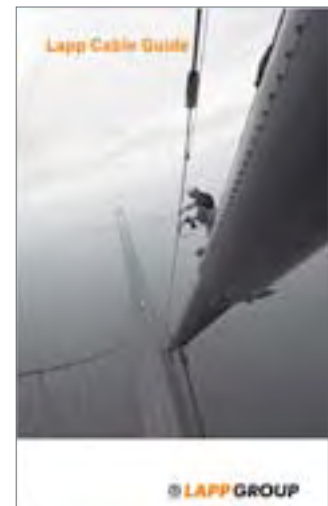
This is a book both for trainees and experienced practitioners. It is available in German, English or Russian.



The Lapp Cable Guide

In the "Lapp Cable Guide" you will find many of the technical terms used in the electrical industry. From A as in "absorption" to Z as in "zinc", the terms are listed in alphabetical order and accompanied by a short but concise explanation.

The "Lapp Cable Guide" also contains a large number of useful tables and charts. The English translation is also provided, along with many tables and overviews.



A quick click instead of a long search:

The complete 2008/09 product catalogue on CD-ROM



Safety

Without exception our products are tested for application safety in accordance with laid down standards and our own regulations, which complement the standards. Relevant legal requirements and safety regulations are also observed. Provided due care and attention is paid, the possibility of product-specific danger to the user may thus reasonably be excluded. Where products are used carelessly or incorrectly, however, considerable

danger to persons and the environment may arise. For this reason, our cables must only be processed and /or used responsibly by trained electricians or specialists. This catalogue contains general information for the application of each product. Independent of such information, the application standards DIN VDE 0298 and DIN VDE 001 for cables will apply. Excerpts from these standards, as well as complementary selection

and application tables, design and installation guidelines, are contained in the tables in the appendix to the main catalogue. Our machines and installation tools are - where necessary - designed in accordance with the machine guidelines and display the CE identification mark. It must be noted, however, that our machines and installation tools must only be used by trained specialized personnel and for the purpose for

which they were designed. ©Copyright by U.I. Lapp GmbH. Reprinting or reproduction of the text or the illustrations may be made only with written approval and with correct indication of source. We reserve the right to make modifications to our products, especially those based on technical improvements or continued development. All illustrations and numerical data etc. are therefore without warranty and are subject to change.

ÖLFLEX®

UNITRONIC®

HITRONIC®

SKINTOP®

SILVYN®

EPIC®

FLEXIMARK®

ETHERLINE®

Terms of Trade:

Our general conditions of sale can be
downloaded from our website
www.lappkabel.de/services



www.lappgroup.com

To contact your local Lapp Group representative
please visit www.lappgroup.com/worldwide