JOKARI® original

Ideas

Servi

JOKARI Extras

Here you find general information around JOKARI products such as spare parts and consumables available, user tips and tricks, as well as some more useful information around cable and wire stripping. All you need to optimize your sales and to select the right products.

Success

Solutions

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All JOKARI products are designed to sustain a long tooling lifetime. The blades are made from high alloy special steel and are hardened and tempered with great care. However each kind of edges are subject to wear after extensive use. Therefore JOKARI has made available replacement blades for several of our products in case the need arises.

The exchange of blades is easy.

Cable Knives: Open body (4 screws), take out old blade, insert new blade into support, close body.
Wire Stripping Pliers: as per video instruction. Open the file by scanning the corresponding QR-code on this page, or with your web browser.
Micro Precision Wire Strippers: Take off screw at front, take out old blade, insert new blade and fix screw again.

For Cable Knives

Each JOKARI Cable Knife is supplied with a spare blade inside the handle.
Additional spare blades are available.
JOKARI Tools with external trimming knive have a loose protection cap. This cap is also available as spare part.

Single blade **Part No. 19000**
Set of 3 blades **Part No. 19000/3**
Protection cap **Part No. 19580**

		19000	19000/3	19580
10160	No. 16 Secura	x	x	
10162	No. 16 Standard	x	x	
10270	No. 27 Secura	x	x	
10271	No. 27 ISO	x	x	
10272	No. 27 Standard	x	x	
10280	No. 28 H Secura	x	x	x
10281	No. 28 G Secura	x	x	x
10282	No. 28 H Standard	x	x	x
10285	No. 28 G Standard	x	x	x
10350	No. 35 Standard	x	x	
10500	No. 50 Standard	x	x	

For Wire Stripping Pliers

Spare Blades for JOKARI Wire Stripping Pliers have to be replaced as a full set. Spare blade sets are available for most pliers, please use spare parts no.s listed below.

Set Blades		Part No.
20030	FKZ	29030
20050	Super 4 plus	29050
20070	AS-Interface Special	29070
20090	No. 6-16²	29090
20100	Secura 2K	29100
20300	Sensor Special	29300
20310	Sensor Mini	29310

Scan for instructions

20030
Flat Cable Stripper

20050
Super 4 plus

20070
AS-Interface Special

20090
No. 6-16²

20100
Secura Soft Grip

20300/20310
Sensor Mini

For Mikro Precision Wire Strippers

The swiveling lever blade is fixed by a screw and can easily be replaced.
Part No. 46025

For QUADRO

Available are the empty magazine as well as strips of end sleeves.

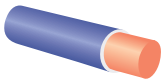
	Color	Box unit	Part No.
Magazine, empty			60100
End sleeve strip 0,5 mm		10 x 50	60150
End sleeve strip 0,75 mm		10 x 50	60175
End sleeve strip 1,0 mm		10 x 50	60110
End sleeve strip 1,5 mm		10 x 50	60115
End sleeve strip 2,5 mm		10 x 40	60125

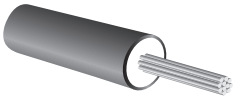
AWG Metric Comparison Table

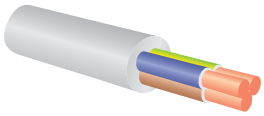
AWG sizes refer to solid wire.
The diameter of twisted wires can exceed the diameter of solid wires by up to 20%.

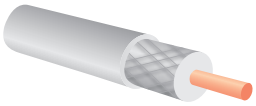
AWG Ø	cross section mm²	Ø mm	AWG Ø	cross section mm²	Ø mm	AWG Ø	cross section mm²	Ø mm	AWG Ø	cross section mm²	Ø mm
4/0	102,22	11,68	8	8,37	3,26	19	0,65	0,91	30	0,051	0,25
3/0	85,01	10,40	9	6,63	2,91	20	0,52	0,81	31	0,040	0,23
2/0	67,43	9,27	10	5,26	2,59	21	0,41	0,72	32	0,032	0,20
1/0	53,48	8,25	11	4,17	2,30	22	0,33	0,64	33	0,025	0,18
1	42,41	7,35	12	3,31	2,05	23	0,26	0,57	34	0,020	0,16
2	33,62	6,54	13	2,63	1,83	24	0,21	0,51	35	0,016	0,14
3	26,67	5,83	14	2,08	1,63	25	0,16	0,46	36	0,013	0,13
4	21,15	5,19	15	1,65	1,45	26	0,13	0,40	37	0,010	0,11
5	16,77	4,62	16	1,31	1,29	27	0,10	0,36	38	0,008	0,10
6	13,23	4,12	17	1,04	1,15	28	0,081	0,32	39	0,006	0,09
7	10,55	3,67	18	0,82	1,02	29	0,064	0,29	40	0,005	0,08

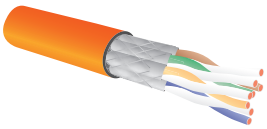
JOKARI cable symbols

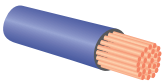

Insulated solid conductor.


Solar cable with external insulation layer.

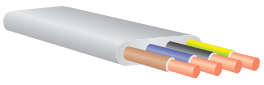

Cables for building installation, multicore cables for fixed installation, flexible cables, damp-proof installation cables, e. g. NYM, NYY.

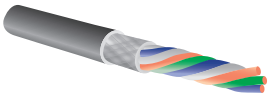

Coax Cables for audio, video and TV, network coax cables.

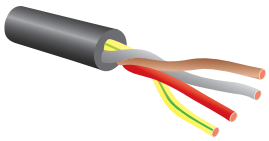

Cat data communication cable.


Flexible, twisted conductor.


AS-Interface cable.


Multicore flat installation cables, e.g. NYIF-J.


Data communication cables, ethernet cables, sensor and actuator cables, shielded and non-shielded.


Oil resistant flexible control and power cable.

JOKARI product information symbols

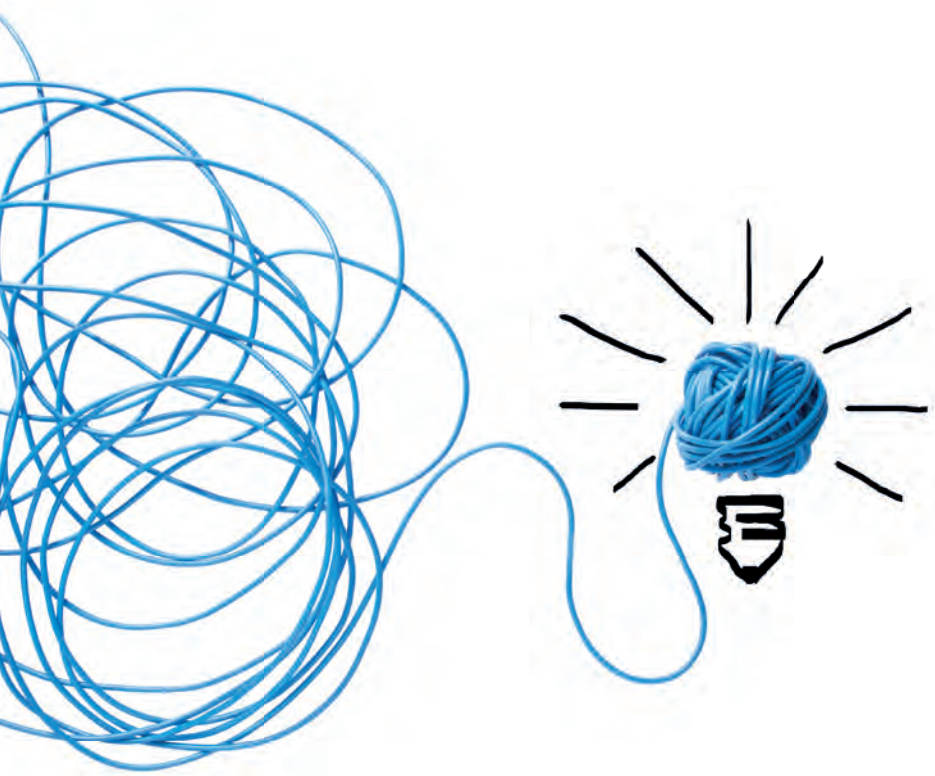
Titan-Nitride coatings(TiN)
- Quicker cut
- Longer lifetime and less blade wear
- Less friction
- Better cutting quality

TiN coated inner blade

TiN coated hook blade

TiN coated cable stripper knives

Mulitfunctional protector cap
- High safety during use
- Safe handling due to protector cap “click” function
- Integrated hanging hole for tool storage
- Screw driver function for easy blade adjustment



Working with JOKARI

Cable Knives

JOKARI cable knives consist of 3 functional parts: the ergonomic **handle** offers a fine grip and safe and exact cable guidance. The self-retaining **cable guide clip** presses the cable sheathing reliably to the swivelling **inner knife blade** and ensures with the shaped handle end an exact guidance of the cable during round and longitudinal cutting.
Adjust cutting depth of the stripping knife to sheathing thickness by turning the adjustment wheel. After insertion of the cable slightly press the cable guide clip to the cable to scratch the sheathing surface. The knife blade is pivot-mounted inside the handle and the knife design ensures that the blade follows the cutting direction automatically without resetting the tool when changing from round to longitudinal cut. Start with a single round cut, then move the knife alongside the cable to its end.
Break the sheathing easily at the round notch by bending the cable end up and down, detach sheathing, finished. Some patterns optinally are equipped with a trimming knife blade to cut open packages, boxes, strips, cords etc.

Cable Strippers

The pipe-shaped cable strippers are equipped with 1 or more pairs of cutting knives fixed inside the working heads, depending on application. The use is always the same: open half-pipes by unlocking the catch, insert cable, close half-pipes with slight pressure. Then rotate tool a quarter turn to the left and the right, open tool again, position the blades beside the round notch towards the end, break the sheathing by bending the cable end up and down and tear off sheathing with the tool. Some patterns offer the option to strip conductor insulations by using cross section related stripping notches. Some patterns contain a separate blade for longitudinal cuts. Insert cable in the cable guide, close half-pipes and move tool in a slight angle alongside the sheathing. It is even possible to strip longer sections as the cable can protrude the pipes at full length.

Wire Stripping Pliers

Stripping Pliers are designed to either strip the cable sheathing or the wire insulation. JOKARI Pliers are being offered for different conductors, insulation types and cable sheathings. All pliers either adjust themselves automatically to the conductor cross section or work with precisely ground, size related stripping blades.

Micro Precision Wire Strippers

Made for conductor diameters from 0,12 to 1,0 mm resp. 36 to 18 AWG. The conductors are automatically held in a centered position, the precisely ground knives cut through the insulation surface easily by thumb pressure. Tear stripper away from wire, finished. Available either with blades for individual wire diameters or adjustable by a slider to 6 different diameters. Also available is a version for ESD-use in electrostatic proteced areas.

JOKARI - ultimate Sales Support

Sales support at JOKARI is a multi-faceted matter. The aim is to provide the JOKARI dealership with the best possible direct or indirect support to keep the brand JOKARI as strong as it is and to always be present at the user. JOKARI follows this intention since many years and constantly improves and develops things further. To be a premium brand - and to keep this approach also in the future, this attitude is only possible with satisfied users and through satisfied dealers.

See. Feel. Buy.
The JOKARI Sample Case

The JOKARI sample cases give the tools into the hands of your customers. Ask for details.

Hear. Talk. Experience.
The JOKARI Exhibitions

Users can experience JOKARI on many exhibitions. We demonstrate and present new and known products. We show how to best handle the tools. We tell where to buy. We listen to the user at the front. We implement what is reasonable.

Teach. Share. Learn.
The JOKARI Training Courses

We share our Know-How with the sales consultants of our customer. We train customer‘s staff at customer‘s location using professional presentations and under practical and typical conditions of use.

Present. Inform. Sell.
The JOKARI Blister Cards

As POS-support the JOKARI blister card provides the user with all relevant product information in a compact layout. Short description, easy to understand cable graphics with dimensional details, application photos all at the front, illustrated multi-language instructions of use at the rear, plus QR-Code linking direct to our application videos.

Surf. Download. Skype.
JOKARI Digital

facebook twitter skype YouTube g+

- Surf, download, skype, twitter
- Video instructions for correct use and easy exchange of stripping blades
- JOKARI cable data base
- QR-Codes
- JOKARI‘s Wiki
- JOKARI Facebook Forum
- Video phone by Skype

The consequent use of popular multimedia components makes the access to information free of barriers and immidiate - for the trade like for the user.

You want to have a look at your JOKARI tool working properly?

Just scan the corresponding QR-code in our catalogue or on our blistercard and look. Or visit www.jokari.de, click to the product and it's video.

The JOKARI cable database – thousands of cables with one click

Which tool is best to strip that cable professionally? The JOKARI cable database will answer this question. The user enters the available cable type and the database looks for the optimal tool in seconds.

JOKARI offers more than 70 tools for stripping wires. The database supports the user to find fast and easy solutions. Anytime and anywhere accessible via Internet, the database helps to find a professional stripping solution. The use of the database is very simple:

At **http://wire.jokari.de** the user enters the name of the cable and the key-word-search suggests a cable list. From that list, the user selects the suitable cable type and the result is a tool recommendation plus a detailed description with text and photo. A link to the homepage www.jokari.de offers additional information and often an application video.

As new cables are developed permanently, the database will be constantly updated in dialog with users.

If a cable is not on our list, JOKARI will add this to the database with your help! Just send a message with information about the cable type or name and number of inner conductors and the cross-section via Facebook, email, fax or phone.

http://wire.jokari.de

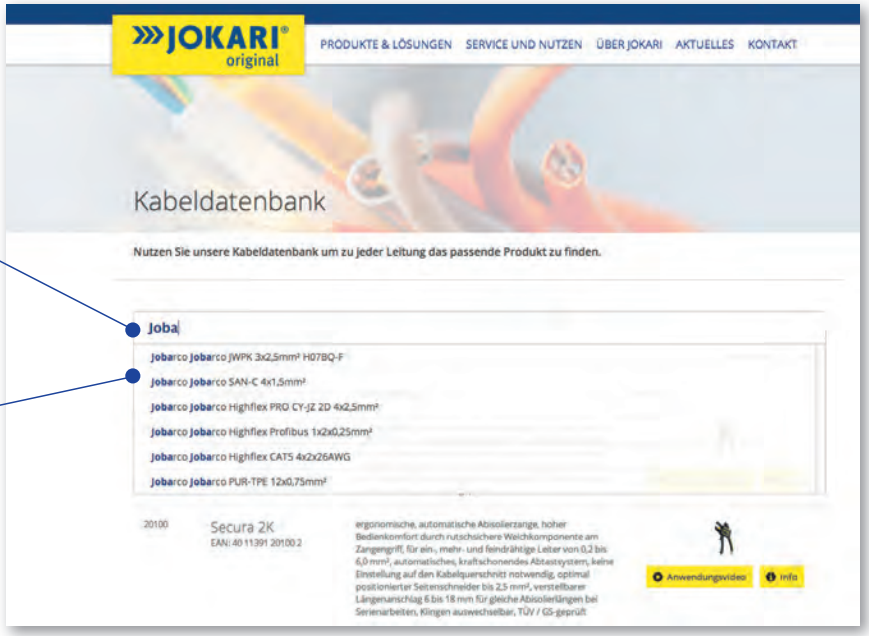
- free cable database with thousands of records
- find the best JOKARI tool within seconds
- anytime, anyplace accessible via internet

your JOKARI cable database
Ihre JOKARI-Kabeldatenbank

It's just that easy:

Enter the cable type information into the search box.

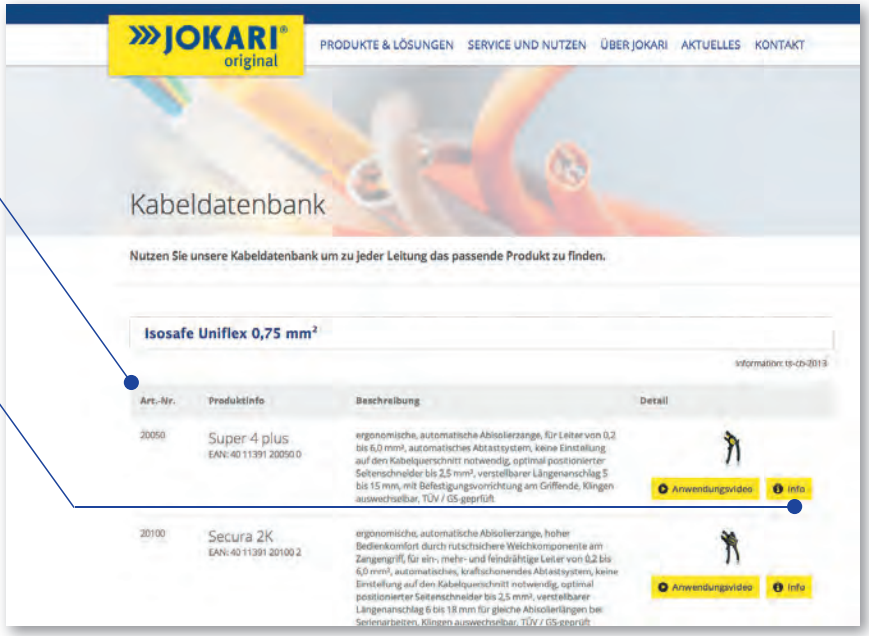
The keyword search of the dynamic search machine shows already during the input a choice of cables. The more you complete the search information, the finer the search is working. If necessary, scroll through the offered cable types, mark the correct type and click the left mouse button …



… and the recommended product or products are showing up.

If more information is required, click of more info >>

Your cable is not listed? Open our contact form by mouseclick, write your message or provide us with a test sample of your cable. We will consult you individually as quickly as possible.



JOKARI 's WIKI – What is what?

AS-Interface Cable (AS-i)
Industrial cable with internationally standardized square, step-shaped design and dimensions, made from a very tough PUR or TPE sheating around 2 insulated conductors. Used in field bus communication, mainly as Actuator / Sensor system based on EN 50295 and IEC62026-2. For stripping the sheathing the JOKARI AS Interface Stripping Plier 20070 is recommended.

Cable diameter
The size of a cable is defined by the maximum diameter at the outside of the sheathing and can be measured in millimeter and inches.

Cable (Dismantling) Knife
The construction of a modern Cable Knife comprises usually of a plastic handle, a cable holding device and a knife blade to slit the cable sheathing with a round cut.

Cable Stripper
JOKARI Cable Strippers provide two half-pipe plastic bodies, which are linked on one long side with hinges. Stripping blades will either be on one or both ends of the cable stripper depending upon the pattern and style. After opening a closing catch, the body opens alongside, and the cable can be inserted by placing the knives at the position, where the insulation has to be cut. Closing the body applies a slight pressure to the knives cutting into the sheathing. After the blades have cut the outer sheathing, simply rotate the body of the cable stripper a quarter turn to the left and right. This prepares the sheathing to be broken and to be pulled off.
Some Cable Strippers offer 2 sets of blades to work on coaxial cables with one tool, and some Cable Strippers offer additional wire stripping notches. Common to all is that there is no need to adjust the tools to cable and wire diameter.

Cable Stripping
Round and Flat Cable consist of some insulated conductor wires, which are coated by a plastic or rubber sheathing. To get the conductors ready for an electrical connection, the sheathing has to be taken off the cable end to expose the conductors. For stripping a cable sheathing we recommend JOKARI Cable Knives, Cable Strippers and some Stripping Pliers.

Coaxial Cable
Coaxial Cables are consisting of a pair of concentric positioned conductors. The inner conductor can be either solid or stranded. It is covered by a dielectric insulation material, around which the second conductor in form of an aluminium foil or mesh protects the inner conductor against parasitic induction. This shielding is covered by a second insulation sheath. Coax cables are used for a distortion-free transfer of high frequency bandwidth transfer signals , e. g. in cable-TV or ethernet systems. The Secura No. 1 (part no. 30600) strips both, the outer sheathing and shielding as well as the dielectric insulation to prepare a professional connection to coax plugs and connectors.

Conductor
A conductor consists of one ore more metal wires inside an insulation layer to transport electrical energy. The international standard IEC 60228 defines all criterias around conductors, amongst them the various basic types: class1- solid, class 2 - stranded for fixed installation, Class 5 - flexible and class 6 - very flexible. Conductors can be used alone or assembled from 2 and more inside a sheathing as a cable.

Conductor, solid, Class 1
Made of a single, solid wire, usually copper, which is insulated by a plastic insulation layer. A set of 2 or more conductors form a sheathed multicore cable. Used e. g. in building installation and other surroundings, where a strong and comparatively rigid cable construction is required.

Conductor, stranded, Class 2
Used for fixed installation purposes, it consists of a number of thinner wires, which are stranded to a string, which is more flexible than a solid conductor.

Conductor, flexible, Class5
Assembled from a greater number of individual, finer wires, the conductor respectively the final cable are used, whereever the cable needs to be much more flexible, but also a good stability is needed, e. g. to connect fixed equipment like machines, larger household equipment etc to mains.

Conductor, very flexible, Class 6
Built from still finer wires, this conductor type is being used for cables, installed at all movable electrical equipment, e. g. from TV to hair blowers.

Conductor cross section (mm²)
The size of a conductor is defined by the frontal cross section of the metallic part of the wire, without insulation. Contrary to a solid wire, the cross section of stranded wires is the addition of the individual cross sections of all the fine wires forming the stranded string. As this string also contains some spaces between the fine wires, a stranded wire may be up to 20% larger in diameter than a solid wire with same cross section. In Europe the cross section usually is indicated by „mm²".

Conductor cross section (AWG)
AWG means „American Wire Gauge" and is being used mainly in the USA. Like the metric cross section AWG defines the frontal area of the individual wires of conductors. AWG numbers become smaller, the larger the diameters are. The differences between solid and twisted wires in AWG are larger than in millimeter units, and AWG sizes do not exactly match european metric wires. Therefore our AWG indications are only as near as possible to the basic metric figures.

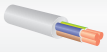
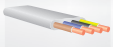
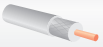
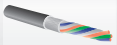
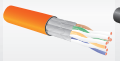
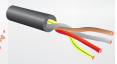
Data Cable
Used for transmitting data files with usually low electrical energy. These cables often have rather thin sheathing due to low requirements to the insulation properties. They either have one insulated stranded conductor with a larger diameter, or a set of thinner, insulated flexible stranded wires, twisted around inside a sheathed cable, which can transport different data parallel and separate from each other. Some cables feature an additional metal or plastic shielding foil, which can protect against external influences, but this is not a must for all applications. Other types of data cable has each of its insulated conductors carrying an individual shielding foil. Some JOKARI Cable Strippers are layed out for the individual demands of the various types and specifications of data cables.

Sensor Cable
Sensor Cable is being used greatly in manufacturing systems engineering. It can be found in the robotics and logistics industries. The operating conditions are often difficult, as the cables are being exposed to dirt, humidity, aggressive materials, hot or cold temperatures and extensive movements. Due to these extremes, the demands to the cable sheathing und conductor insulation materials are extreme as well. These cables can be highly resistant, flexible and tough. They use materials such as PUR, halogen-free PUR, or TPE. These can be stripped by specially designed strippers – a speciality of JOKARI.

Wire Stripping
The insulation material of an electrical conductor wire is being pulled off to enable a clean electrical connection. Suitable tools are JOKARI Wire Stripping Pliers and Micro-Precision Wire Strippers. Also some JOKARI Cable Strippers are equipped with additional wire stripping notches.

Wire Stripping Plier
Traditionally, a Pair of Pliers consists of a pair of grips, which are pivoting around a centered bolt. The one side of the tool form the handles, the other the working head. The working head of JOKARI Stripping Pliers contains a lever construction, which in one move of the user's hand presses cutting knives onto the cable sheathing and pulls the sheathing off from the conductors inside. JOKARI has Stripping Pliers that automatically adjust to the cable needs as well as manual adjustment variations.

Cable and wire types listed in this table are typical application examples and support to find the right tool.
In most cases the tools can be used at similar or related cable and wire patterns as well.

Cable types / Cable dimensions										
	part no. I page	part no. I page	part no. I page	part no. I page	part no. I page	part no. I page	part no. I page	part no. I page	part no. I page	part no. I page
Cable Knives										
4-16 mm 5/32"-5/8" Ø	10162 | 7 10160 | 8									
8-28 mm 5/16"-1.1/8" Ø	10271 | 6 10272 | 8 10285 | 8 10185 | 8 10270 | 8 10281 | 9 10280 | 9									
27-35 mm 1.5/64"-1.1/2" Ø	10350 | 6									
35-50 mm 1.3/8"-1.15/16" Ø	10500 | 6									
Cable Stripper										
4-13 mm 5/32"-1/2" Ø	30900 | 12		30900 | 12					30900 | 12		30900 | 12
8-13 mm 5/16"-1/2" Ø	30120 | 12 30900 | 12 30155 | 13									30400 | 14 30155 | 13
8-15 mm 5/16"-19/32" Ø	30400 | 14 30900 | 12									30400 | 14 30900 | 12
PVC-Flex 3,0x0,75 mm² Ø	30600 | 15									30900 | 12
4,8x7,5 mm 3/16"-19/64" Ø			30600 | 15 30100 | 15							
4,5-10 mm Ø					30500 | 17 30161 | 16		30900 | 12	30900 | 12	30500 | 17 30161 | 16 30900 | 12	
5-13 mm 3/16"-1/2" Ø	30160 | 16				30160 | 16					30160 | 16
Flat Cable to 12 mm width		30140 | 14								
Flat Cable to 15 mm width		30900 | 12								
Solar Cable 1,5 mm²				30180 | 17						
Solar Cable 2,5-6 mm²				30190 | 17						
Solar Cable 10/16 ²				30200 | 17						
1,5-50 mm²								30900 | 12		
Wire Stripping Pliers										
0,2-6 mm² AWG 24-10							20050 | 22 20100 | 22	20050 | 22 20100 | 22		
0,5-6 mm² AWG 20-10							20060 | 25	20060 | 25		
0,75-2,5 mm² AWG 18-10							20030 | 24	20030 | 24		
6-16 mm² AWG 10-5							20090 | 23	20090 | 23		
Sensor Cable 3,20-4,40 mm Ø					20310 | 25					
Sensor Cable 4,40-7,00 mm Ø					20300 | 25					
Flat Cable to 12 mm width		20030 | 24								
AS-Interface Cable						20070 | 26				
Special Insulation 0,5-4 mm² (rubber, silicone, TPE etc.)							20450 | 25	20450 | 25		
Flex. Control + Power Cable to 3x1,5 mm² /Ø 6,7 mm										20300 | 25
Micro Precision Wire Strippers										
0,12-0,40 mm Ø AWG 36-26							40024 | 30 40027 | 31	40024 | 30 40027 | 31		
0,25-0,80 mm Ø AWG 30-20							40025 | 30 40028 | 31	40025 | 30 40028 | 31		
0,30-1,00 mm Ø AWG 28-18							40026 | 30 40029 | 31	40026 | 30 40029 | 31		