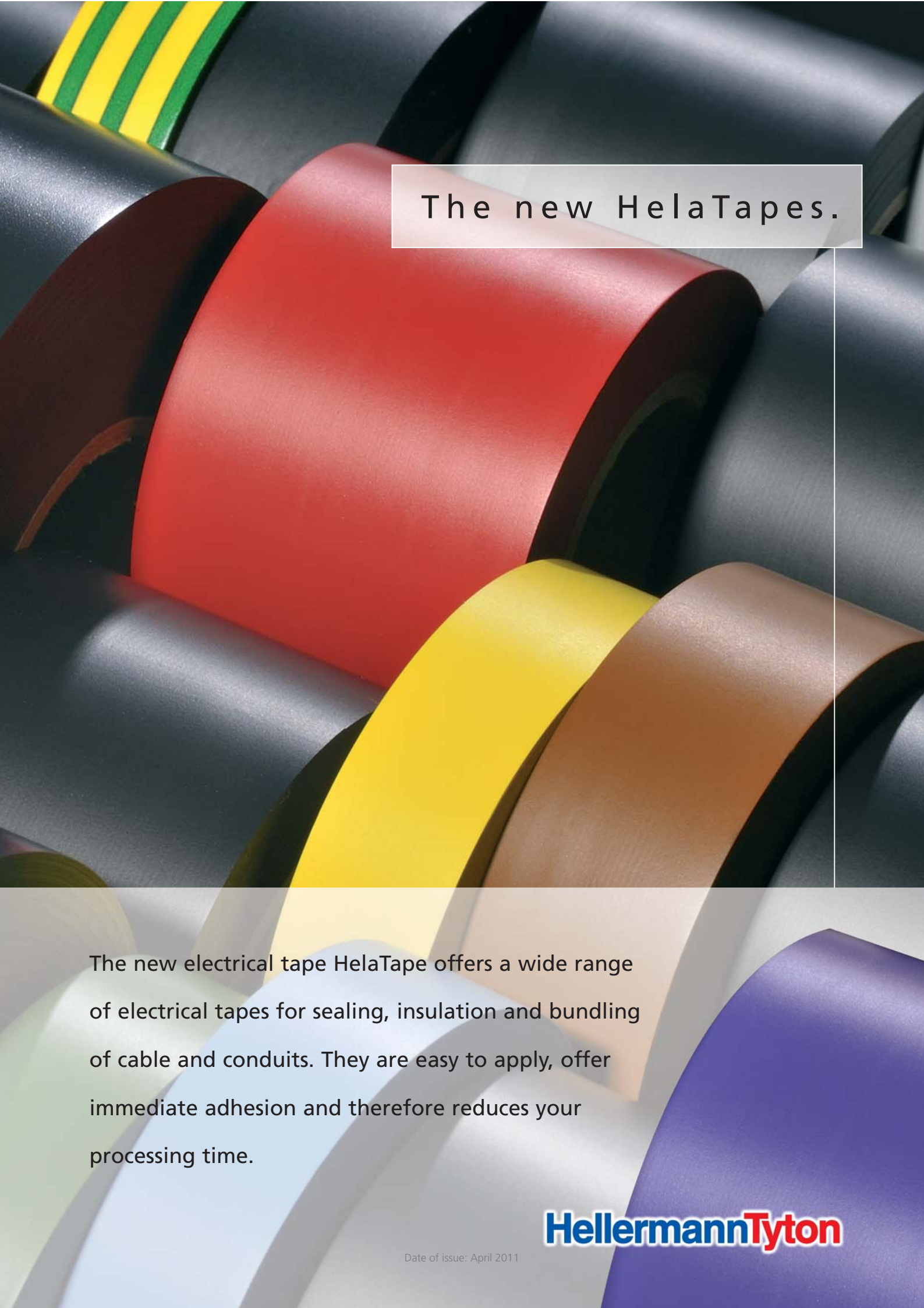




The new HelaTapes.

The new electrical tape HelaTape offers a wide range of electrical tapes for sealing, insulation and bundling of cable and conduits. They are easy to apply, offer immediate adhesion and therefore reduces your processing time.

HellermannTyton

Date of issue: April 2011



Connectors

• HelaCon Plus

Working with clear visibility

Screwless connectors in the field of house installations are used countless times every day. Although this is routine work it requires a lot of diligence in installing the connectors. A tight and secure fitting is indispensable for a failure-free long-life operation. Less care may otherwise result in damage and overheating, worst case causing a very hazardous situation like a fire. The transparent housings of the new HelaCon Plus connector series allows a fast and easy optical control whether the conductor fits to the catch. This is a non negligible factor for safety and will expedite acceptance tests of the complete electrical installation.

Newly developed double spring technology

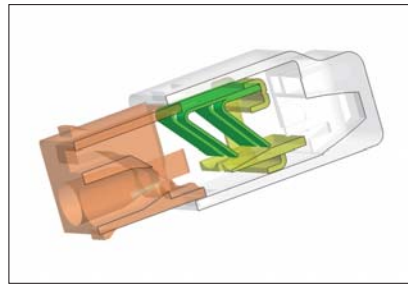
The more connectors that are used for wiring a connection, the more important it is to handle and process them easily and conveniently. Along with a secured fitting this was the utmost aim of the development of the double spring technology. Both springs have major roles to play. The first one allows very low push-in forces that are especially helpful when using multicore conductors. The second spring secures the fixing very tightly. This results in a comfortable use of the connectors and maximum safety at the same time.

Different wire types and cross-sections

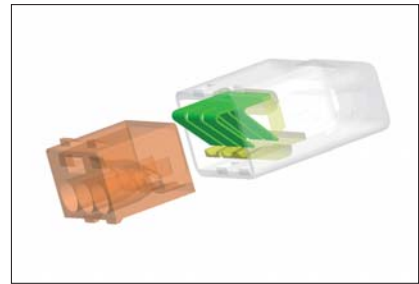
The low push-in forces due to the latest double spring technology enables the use of single and multicore conductors. The free fixing of each double spring allows the concurrent use of various conductor cross-sections between 0.5 and 2.5 mm² within one connector without impact on the adjacent connection. Please note that HelaCon Plus is not designed for fine-stranded wires.



Easy push-in, safe fitting and optical check due to newly developed double spring.



Sectional drawing of HelaCon Plus.



View through the housing shows the double spring.



Any cross-section between 0.5 and 2.5 mm² can be used concurrently.



Connectors

• HelaCon Plus

Features and Benefits

HelaCon Plus is a sophisticated push-in wire connector for professional cable connections in electrical housing applications.

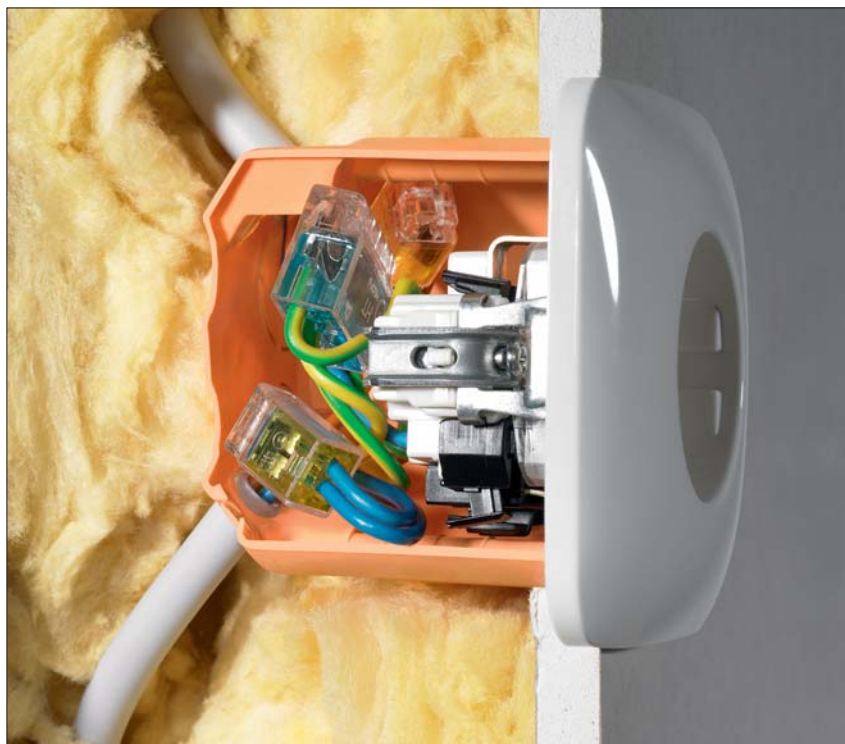
The newly developed double spring allows easy processing and will support installers especially in tricky situations like overhead work. This ensures proper fixing that can optically be checked through the transparent housings. Different colour codes provide a comfortable identification of the different connectors. A separate voltage test entry on the front guarantees safety during application, installation and maintenance.

Application

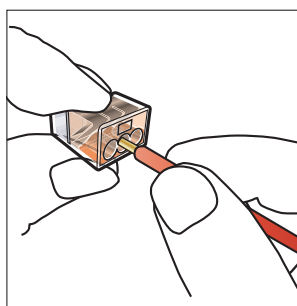
The HelaCon connectors are used for fast, easy and reliable connection and distribution of cable and conductors in the field of electrical housing applications.

Application Method

- Make sure that power is turned off before installation
- Solid and stranded copper conductors can be used
- Strip them off approximately 11 mm
- Insert them completely into the connector
- Use voltage tester via separate test entry
- To change or correct a wire, hold and twist it alternatively left and right while pulling the connector



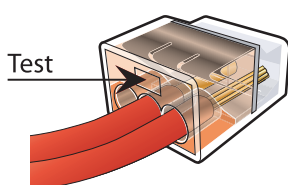
A huge variety of connectors from 2 to 8 poles is available according to the application. The transparent housings allow a quick and easy checking of the conductor fitting.



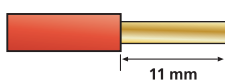
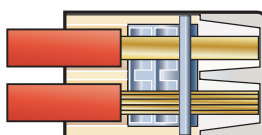
The double spring allows easy push-in of the conductor.



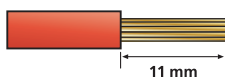
HelaCon Plus– newly developed double spring technology.



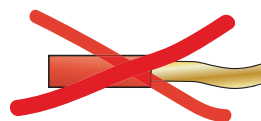
A separate test entry on the front allows the use of a voltage meter.



Solid 0.5 - 2.5 mm²



Stranded 0.5 - 2.5 mm²



Fine Stranded



Connectors

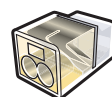
• HelaCon Plus



HECP-3.



HECP-5.



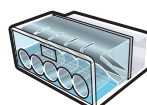
HECP-2



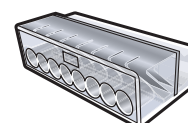
HECP-3



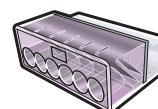
HECP-4



HECP-5



HECP-8



HECP-6

Material Data

Material Housing	Polycarbonate (PC)
Material Plated Brass	Brass Tinned
Material Spring Plate	Stainless Steel (SS)
Max Current	24 A
Max Voltage	600 V
Wire Range (cULus)	AWG 12 to 22 solid/stranded
Wire Range (VDE)	0.5 to 2.5mm² solid/stranded (max 7 cores)
Stripping Length	11 mm
Flammability	UL94 V2
Operating Temperature	-30 °C to +105 °C
Specification	VDE, cULus, NEMKO, SEMKO, DEMKO, FIMKO, CE, KEMA-KEUR, Germanischer Lloyd, ENEC



Technical Table

Article-No.	Type	Colour	Number of Conductors	Width (W)	Height (H)	Depth (D)	Pack Cont.
148-90000	HECP-2	Transparent (CL), Yellow (YE)	2	11.75	10.45	19.00	100
148-90001	HECP-3	Transparent (CL), Orange (OG)	3	15.90	10.45	19.00	100
148-90002	HECP-4	Transparent (CL)	4	20.05	10.45	19.00	75
148-90003	HECP-5	Transparent (CL), Blue (BU)	5	24.20	10.45	19.00	50
148-90004	HECP-6	Transparent (CL), Violet (VT)	6	28.35	10.45	19.00	50
148-90005	HECP-8	Transparent (CL), Grey (GY)	8	36.65	10.45	19.00	40

All dimensions in mm. Subject to technical changes.





Connectors

• HelaCon Easy

Features and Benefits

The range of push-in wire connectors are used for fast, easy and reliable connection and distribution of cable and conductors in electrical housing applications. They used within a typical range of housing voltage up to 450 volts. A huge variety of input poles allow a high flexibility in application depending of the number of conductors and available space. Diameters of up to 2,5mm² can conveniently be processed and allow the use of thicker conductors when a voltage drop occurs. The flexible fixing of the double spring of HelaCon Plus allows different conductor diameters in each entry without influencing the adjacent ones. The connectors can be used in all kinds of junction boxes either on-wall or flush mounted.

Application

The HelaCon Easy connectors are used for fast, easy and reliable connection and distribution of cable and conductors in the field of electrical housing installations within junction boxes and control panels.

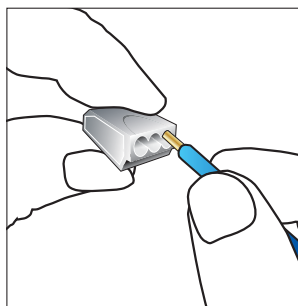
The HelaCon Easy connectors are exclusively designed for use with solid wire, available in two sizes up to 1.5 mm² and up to 2.5 mm² conductor diameter. Bent, stranded or fine-stranded conductors cannot be used with HelaCon Easy.

Application Method

- Make sure that power is turned off before installation
- Use solid copper conductors only
- Strip them off approximately 11 mm
- Insert them completely into the connector
- Use voltage tester via separate test entry
- To change or correct a wire, hold and twist it alternatively left and right while pulling the connector



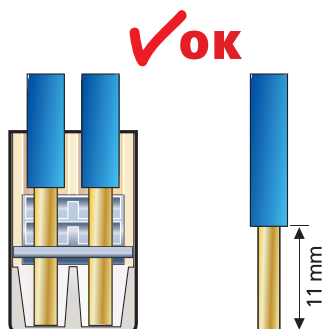
The compact design of HelaCon Easy fits perfectly in tight spaces.



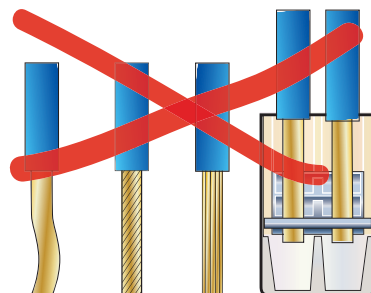
Just push-in and play.



HelaCon Easy.



Solid





Connectors

• HelaCon Easy



HelaCon Easy.



HelaCon Easy 1.5.

Material Data HelaCon Easy

Material Housing	Polyamide (PA)
Max Current	24 A
Max Voltage	300 V (cULus)
Wire Range (VDE)	1.0 - 2.5 mm² soild
Stripping Length	11 mm
Flammability	UL94 V2
Operating Temperature	-30 °C to +110 °C (VDE), -30 °C to +105 °C (cULus)
Specification	VDE, FIMKO, ENEC, cULus, KEMA-KEUR, CEBEC



Material Data HelaCon Easy 1.5

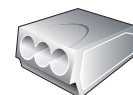
Material Housing	Polyamide (PA)
Max Current	17.5 A
Max Voltage	450 V
Wire Range (VDE)	0.5 - 1.5 mm² soild
Stripping Length	11 mm
Flammability	UL94 V2
Operating Temperature	-30 °C to +110 °C (VDE), -30 °C to +105 °C (cULus)
Specification	VDE, FIMKO, ENEC



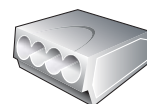
Technical Table

Article-No.	Type	Colour	Number of Conductors	Width (W)	Height (H)	Depth (D)	Pack Cont.
HelaCon Easy							
148-90006	HECE-2	Grey (GY)	2	10.5	9.5	19.5	100
148-90007	HECE-3	Grey (GY)	3	13.5	9.5	19.7	75
148-90008	HECE-4	Grey (GY)	4	17.2	9.5	19.7	100
148-90009	HECE-5	Grey (GY)	5	21.1	9.5	19.7	100
148-90010	HECE-8	Grey (GY)	8	17.5	16.8	19.0	50
HelaCon Easy 1.5							
148-90013	HECE-3x1.5	Grey (GY)	3	11.4	8.8	18.5	100
148-90015	HECE-5x1.5	Grey (GY)	5	17.2	8.8	18.5	100
148-90018	HECE-8x1.5	Grey (GY)	8	26	8.8	18.5	75

All dimensions in mm. Subject to technical changes.



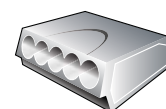
HECE-3



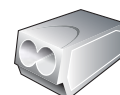
HECE-4



HECE-8



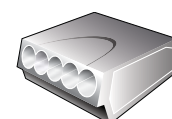
HECE-5



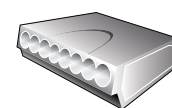
HECE-2



HECE-3x1.5



HECE-5x1.5



HECE-8x1.5





Connectors

• HelaCon Lux

Features and Benefits

HelaCon Lux is best suitable to connect solid and flexible wire. It combines the push-in connector technology that is well known from HelaCon Easy with a lock/unlock spring mechanism to connect fine-stranded conductors. They may be used within a typical housing range of 450 V / 24 A. The two available variants showing either one or two inputs for solid conductor on the installation side offer high flexibility in application. Instead of using screwed terminal blocks the tool-free application of the lighting connectors results in an easy, time-saving and safe connection of conductors. The user benefits from this especially in overhead work and when wires are difficult to access

Application

A typical application is lighting installation, where the solid conductor from concealed cabling has to be connected to a flexible conductor for lightings. The 2/1 variant allows the looping through of the supply lines for additional devices.

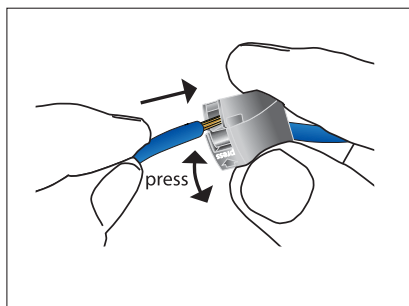
The conductor on the output/lighting side can easily be inserted by pressing the locking mechanism and can be released in the same way at any time. The lighting side can carry any kind of conductor and makes HelaCon Lux connectors also useful to connect devices that carry flexible connecting cables like control devices e.g. for blinds, fans and other drives.

Application Method

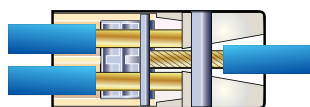
- Do not work under load
- Strip off the conductors 9 - 11 mm
- Push in the solid conductor into the round input on the installation side
- Unlock the lighting side by pressing the connector's rectangular input
- Insert the lighting conductor and release the connector
- To remove, simply press the connector again and withdraw the conductor
- The installation side can easily be removed by twisting and pulling the conductor
- The test entry can be used to check the voltage with a meter



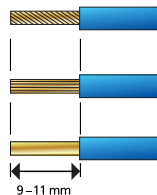
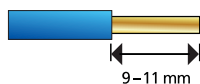
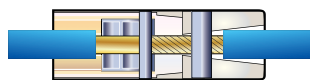
Quick installation and release of lighting devices with HelaCon Lux.



Tool-free connection of lightings.



Installation side: 0.75 – 2.5 mm² solid



Lighting side: 0.5 – 2.5 mm²
solid, stranded, fine stranded

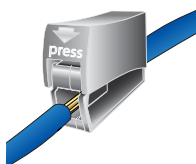


Connectors

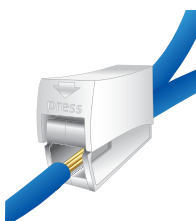
• HelaCon Lux



HelaCon Lux 1/1.



HelaCon Lux 2/1.



Material Data

Material Housing	Polyamide 6.6 (PA66)
Max Current	24 A
Max Voltage	450 V
Wire Range (VDE)	0.5 (0.75) - 2.5 mm²
Stripping Length	11 mm
Flammability	UL94 V2
Operating Temperature	-5 °C to +100 °C
Specification	VDE, FIMKO, ENEC, cULus, KEMA-KEUR, CEBC



Technical Table

Article-No.	Type	Colour	Number of Conductors	Width (W)	Height (H)	Depth (D)	Pack Cont.
148-90022	HECL-1/1	Grey (GY)	2	8.1	15.8	20.8	100
148-90023	HECL-2/1	White (WH)	3	9.5	15.8	20.8	100

All dimensions in mm. Subject to technical changes.

