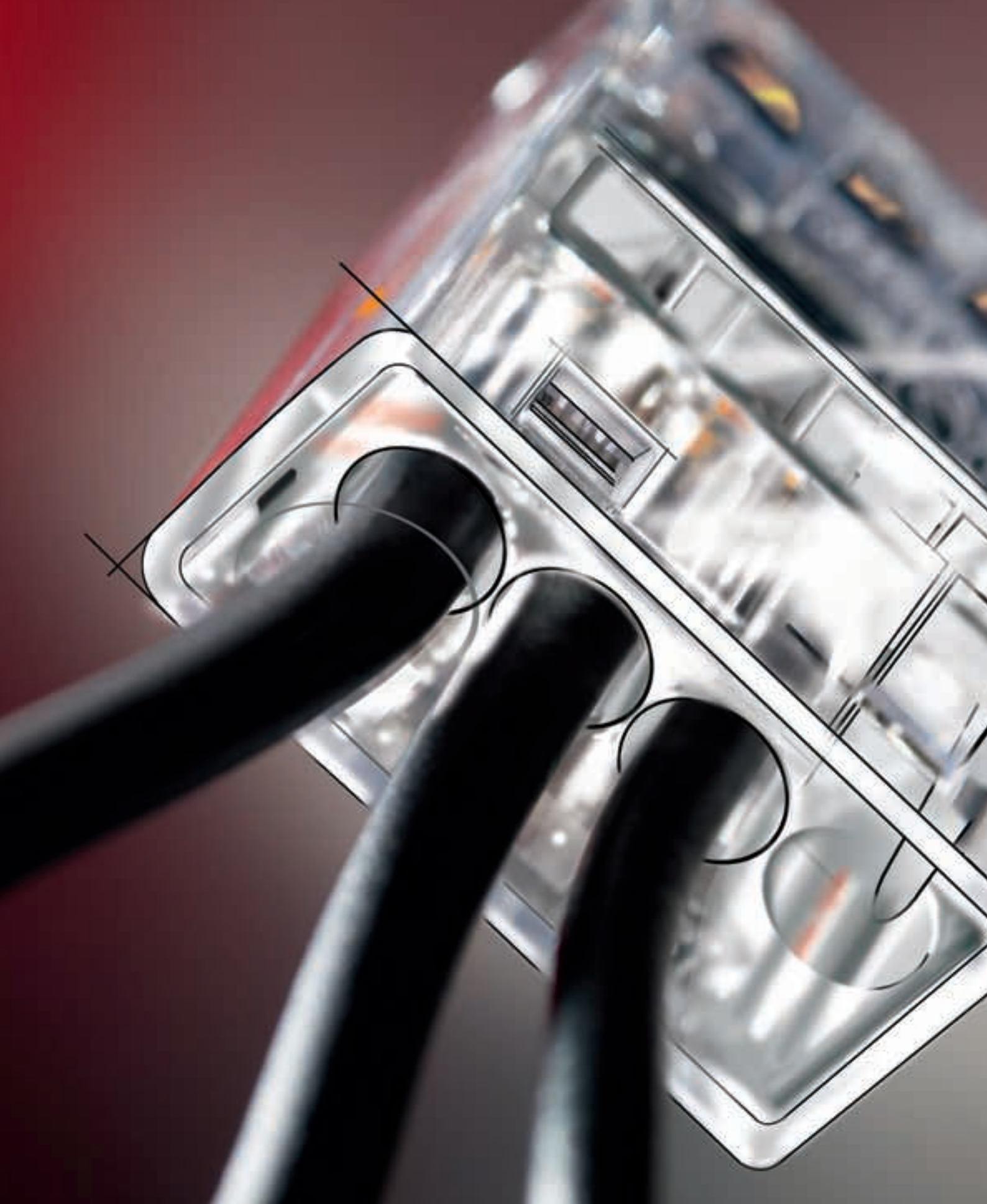


Wire Connectors





Wire Connectors



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The way of cable distribution and branch connections vary from country to country due to different wire types, diameters, colours, junction boxes and mounting systems.

In Norway for instance multi-purpose boxes provide both room for the conductor junction and a switch. Single conductors run through a tube system from all directions into the junction box in the Netherlands.

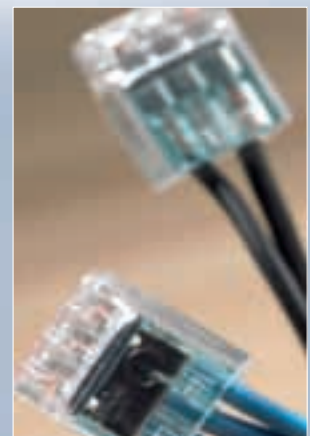
No matter how distinct the individual requirements are – the HelaCon connector series offers the best solution for every task – worldwide



The HelaCon connectors stand off from the grey junction box in **Germany**.



The HelaCon connectors match perfectly with the colourful installers' equipment in **Scandinavia**.



The transparent housing allows for the optical check of all connections – **all over the world**.

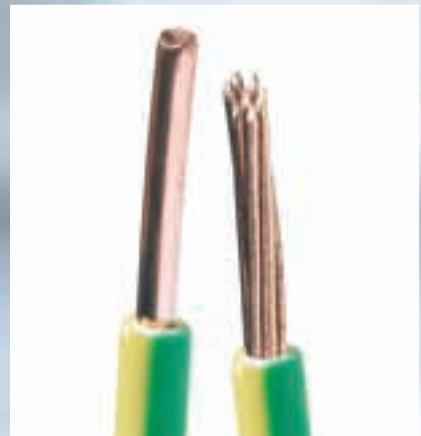
HelaCon around the world



The **Norwegian** range of colours is reflected by HelaCon.



Single conductors are conveniently connected with HelaCon Plus in the **Netherlands**.



Different conductor types like in **Finland** can be processed with HelaCon Plus.



HelaCon Series

The HelaCon 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 2,5 mm² 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.

The HelaCon 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



HelaCon Plus connectors.



HelaCon Easy connectors.



For more information about the double-spring technology, see page 293.



HelaCon eases installers' work at the construction site.



HelaCon Plus used in an on-wall mounted junction box.



The comfortable use of HelaCon supports overhead work



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

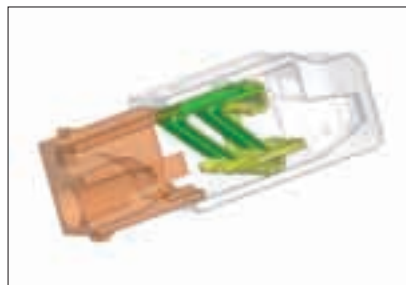
The more connectors that are used for wiring a connection the more important it is to handle and process them very easily and conveniently. Along with a secured fitting this was the upmost aim of the development of the double spring technology. Both springs have major roles to play. The first one allows very low push-in forces that is especially helpful when using soft 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 doublespring technology enables the use of single and multicore conductors. The free fixing of each doublespring 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.



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

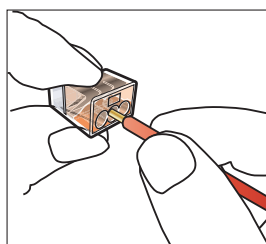
The HelaCon connectors are used for fast, easy and reliable connection and distribution of cable and conductors in the field of electrical housing applications.

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



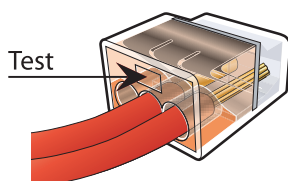
A huge variety of connectors from 2 to 8 poles is available according to the application. The transparent housings allow a quick and easy checking of the conductor fitting.



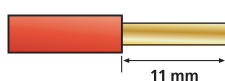
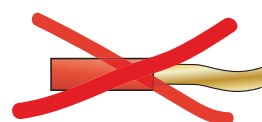
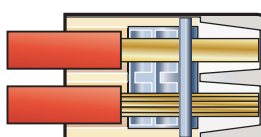
The double spring allows easy push-in of the conductor.



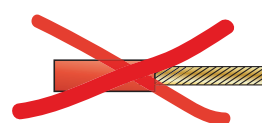
HelaCon Plus – newly developed double spring technology.



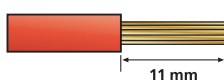
A separate test entry on the front allows the use of a voltage meter.



Solid 0.5 - 2.5 mm²



Fine Stranded



Stranded 0.5 - 2.5 mm²



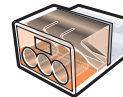
HECP-3.



HECP-5.



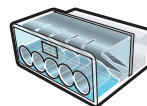
HECP-2



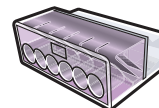
HECP-3



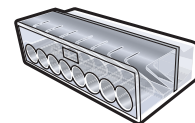
HECP-4



HECP-5



HECP-6



HECP-8

Material Data

Material Housing	Polycarbonate (PC)
Material Plated Brass	Brass Tinned
Material Spring Plate	Stainless Steel
Max Current	24 A
Max Voltage	450 V (VDE), 600 V (cULus)
Wire Range (cULus)	AWG 12 to 22 solid/stranded
Wire Range (VDE)	0.5 to 2.5 mm² solid/stranded (max 7 cores)
Stripping Length	11 mm
Flammability	UL94 V0
Operating Temperature	-30°C to +110°C (VDE), -30°C to +105°C (cULus)
Specification	VDE, NEMKO, SEMKO, FIMKO, DEMKO, KEMA-KEUR, cULus



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.



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 2,5 mm² 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.

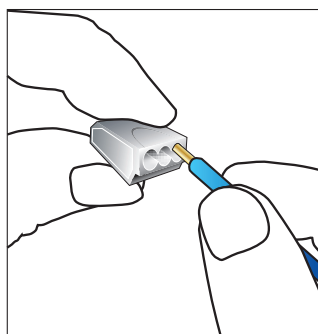
Application Method

The HelaCon Easy connectors are exclusively designed for use with solid wire up to a diameter range of 2.5 mm². Bent, stranded or fine-stranded conductors may not be used.

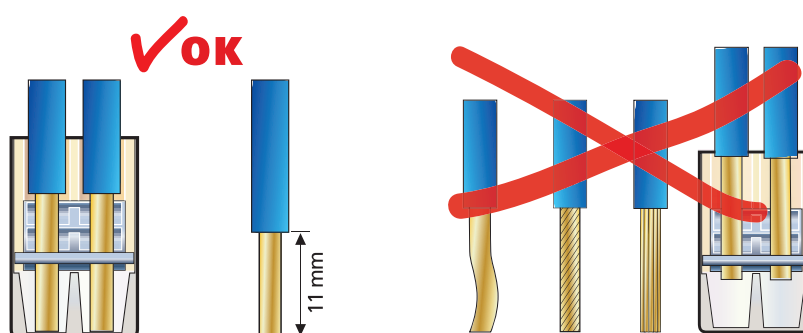
- Make sure that power is turned off before installation
- Use solid copper conductors only
- Strip them off approximately 11 mm
- Insert them completely into the connector
- Use voltage tester via separate test entry
- To change or correct a wire, hold and twist it alternatively left and right while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



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



Just push-in and play.



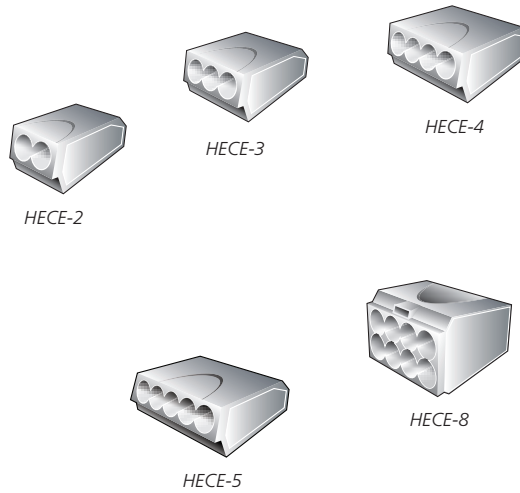
Solid 1.0 - 2.5 mm²



HECE-4.



HECE-8.



Material Data

Material Housing	Polyamide (PA)
Material Plated Brass	Brass Tinned
Material Spring Plate	Stainless Steel
Max Current	24 A
Max Voltage	450 V (VDE), 300 V (cULus)
Wire Range (cULus)	12-20 AWG solid
Wire Range (VDE)	1.0-2.5 mm² solid
Stripping Length	11 mm
Flammability	UL94 V0
Operating Temperature	-30°C to +110°C (VDE), -30°C to +105°C (cULus)
Specification	cULus, KEMA-KEUR, FIMKO, VDE, CEBC



Technical Table

Article-No.	Type	Colour	Number of Conductors	Width (W)	Height (H)	Depth (D)	Pack Cont.
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

All dimensions in mm. Subject to technical changes.



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Please Note for Product Specific Approvals please refer to the Appendix