

Wire Connectors

HelaCon Series

Push-in wire connectors for professional cable connections

HellermannTyton

HelaCon Series



The range of push-in wire connectors is used for fast, easy and reliable connection and distribution of cable and conductors in electrical housing applications. They may be used within a typical range of housing voltage up to 450 volts. A huge variety of input poles allows high flexibility in application depending on the number of conductors and available space.

Cross-sections of up to 2,5 mm² can conveniently be processed and allow the use of thicker conductors when a voltage drop occurs.

The way of cable distribution and branch connections varies from country to country due to the different types of wires, diameters, colours, junction boxes and mounting systems in use.

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



In the Netherlands, single conductors are conveniently connected with HelaCon Plus.



In Scandinavia, HelaCon connectors match the colourful installers' equipment perfectly.



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



In Germany, the HelaCon connectors stand out from the grey junction box.

Working with clear visibility

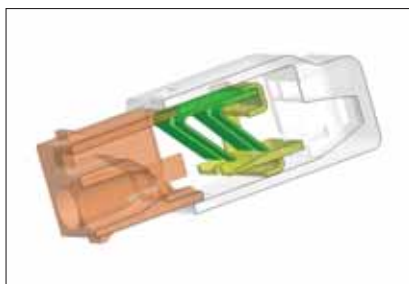
Screwless connectors in the field of house installations are used countless times every day. Although this is routine installation work, it requires a lot of diligence. A tight and secure fitting is indispensable for a failure-free, long-life operation. Careless work may otherwise result in damage and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



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

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 uppermost aim behind 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 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.



Sectional drawing of HelaCon Plus.



View through the housing shows the double spring.

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.



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 difficult situations like overhead work. This ensures proper fixing that can optically be checked through the transparent housing. 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. The connectors can be used in all kinds of junction boxes either on-wall or flush-mounted. HelaCon Plus offers the best possible solution when convenient processing and maximum safety is required.

Application Method

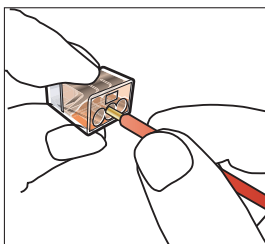
- Make sure that power is turned off before installation
- Solid and stranded copper conductors can be used
- Strip them off approximately 11 mm
- Insert them completely into the connector
- Use voltage tester via separate test entry
- To change or correct a wire, hold and twist it alternatively left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



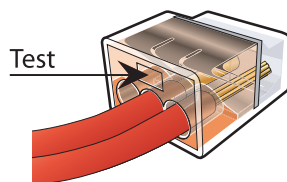
A huge variety of connectors from 2 to 8 poles is available depending on the application. The transparent housing allows a quick and easy check of the conductor fitting.



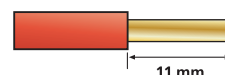
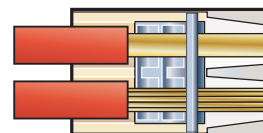
HelaCon Plus – newly developed double spring technology.



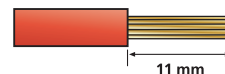
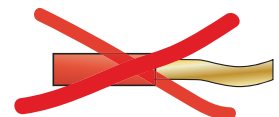
The double spring allows easy push-in of the conductor.



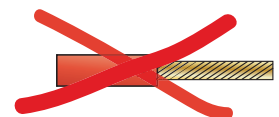
A separate test entry on the front allows the use of a voltage meter.



Solid 0.5 - 2.5 mm²



Stranded 0.5 - 2.5 mm²



Fine Stranded



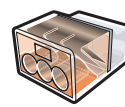
HECP-3.



HECP-5.



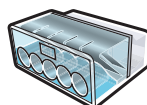
HECP-2



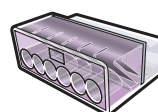
HECP-3



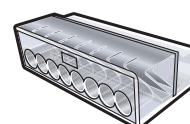
HECP-4



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 2.5mm² 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)
Certification	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 conductors in electrical housing applications. They are designed for use in a typical range of housing voltage up to 450 volts. A huge variety of input poles allows high flexibility in application depending on 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 group occurs.

Application

Being compact in size they fit perfectly in tight spaces and can generally be used in all kinds of junction boxes either on-wall or flush-mounted.

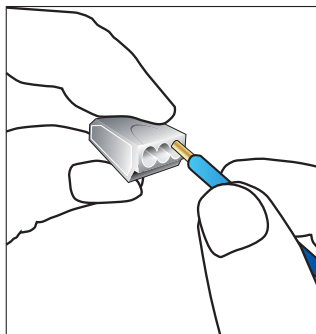
The HelaCon Easy connectors are exclusively designed for use with solid wire up to a diameter range of 2.5 mm². Bent, stranded or fine-stranded conductors may not be used.

Application Method

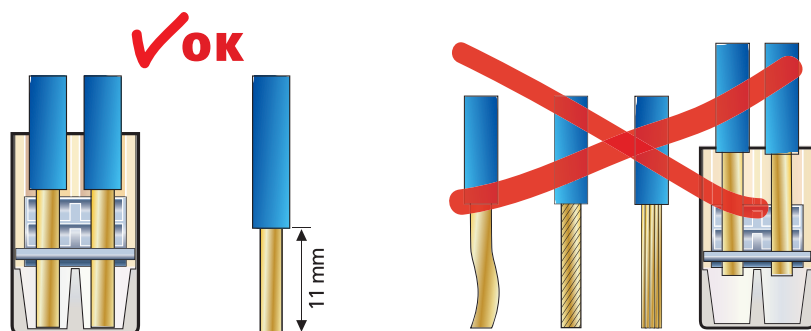
- Make sure that power is turned off before installation
- Use solid copper conductors only
- Strip them off approximately 11 mm
- Insert them completely into the connector
- Use voltage tester via separate test entry
- To change or correct a wire, hold and twist it alternatively left and right while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



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



Just push-in and play.



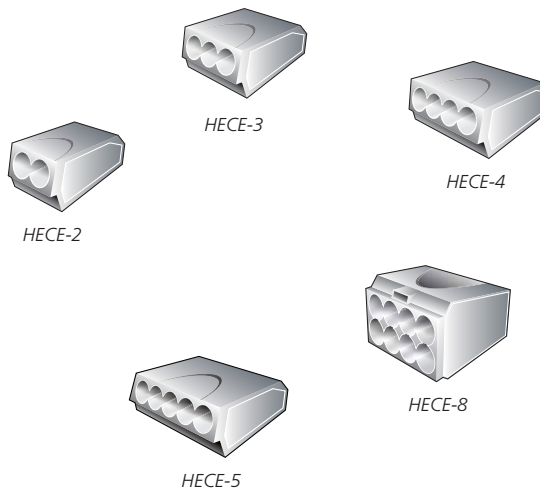
Solid 1.0 - 2.5 mm²



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 mm ² solid
Stripping Length	11 mm
Flammability	UL94 V0
Operating Temperature	-30°C to +110°C (VDE), -30°C to +105°C (cULus)
Certification	cULus, KEMA-KEUR, FIMKO, VDE, CEBEC

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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