

HENSEL

PASSION FOR POWER.

The New Cable Junction Boxes

The evolution of the original.

Level 2 - »Waterproof«



1950



2014

ENYCASE[®]

www.enycase.eu

The Hensel Cable Junction Box: A success story!

Since its founding, Gustav Hensel GmbH und Co. KG has continuously met the challenges of the times! The invention of the first cable junction box made of thermoset plastics in 1931 revolutionised an entire generation's everyday work routine: A multitude of installation tasks could be solved in a most simple method. A convenience that has become indispensable by now and the start of an unprecedented success story.

At eye level with progress.

As the inventor of the plastic cable junction box, we believe it is our obligation to always keep pace with the latest trends.

It is not enough for us to react to new problems to be solved. Rather, we set the pace ourselves when innovations in the field of electrical engineering and installation are concerned.



We develop products that not only meet today's requirements but even surpass them...



1931



1950

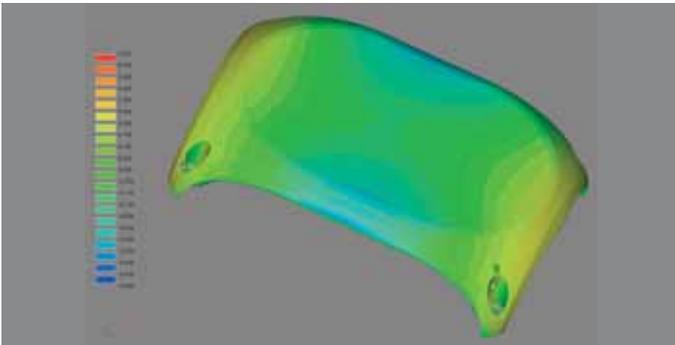
The evolution of the original: ENYCASE®

We have raised the original to the next level of evolution, followed up on impulses from practical experience and rendered them in the form of new features in the ENYCASE cable junction boxes. They are the embodiment of our very own competency because our know-how flourishes particularly in demanding settings, under difficult conditions, in industry and trade.

The series of innovative and high-quality junction boxes made of state-of-the-art materials are manufactured by means of pioneering production procedures. Our products have made their case for many generations. It is our claim to always continue the development and optimise our original for you.

State of the art measuring methods guarantee the high quality of products, here the optical measuring for production deviations.

Refined logistics assures optimal and low-cost customer care.

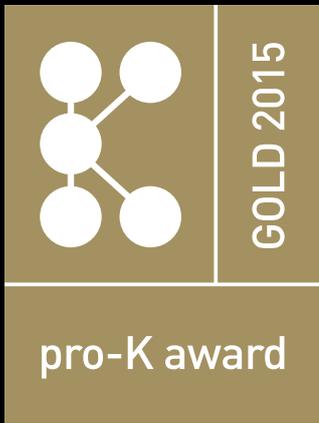


Eight enclosure sizes in grey and black.

2014



Robust shape with lots of space for wiring



The sealing compound is silicone-free

Multi-level knockouts for cable glands in different sizes



For totally encapsulated cable junction boxes the degree of protection of enclosures according to IEC 60529 is not applicable.

Burning behaviour in glow wire test 960°C
High impact withstand IK 09 (10 joule)

A fireworks of innovation!

New requirements arise from new challenges. To improve the ENYCASE even further, we have once more revisited and checked each detail. This is the only way to be sure that the most up-to-date product is manufactured, which not only enthruses its users for what is already tried and proven but specifically always for its novelties.

- Tested product solutions from the market leader
- Safe products with a long useful life
- Innovative applications with many installation advantages

Closes quickly by a quarter turn – closed position is visible



All terminals with 2 clamping units per pole



Terminals prevent damage of conductors, also for flexible conductors without ferrule



Various conductor cross sections and conductor types



High-position terminals with more space for wiring



External brackets for fastening are always included

Level 2: Never leaks!

ENYCASE WP

In many areas it is extremely important to completely rule out any water penetrating the housing. Luckily, Hensel also offers the perfect solution for this.

The specially designed, newly optimised cable junction boxes in the ENYCASE series are protected from the penetration of water and the forming of condensation water thanks to being made from a fast curing, permanently elastic sealing compound. Benefit from our experience and our know-how, as only the best protection is good enough for demanding tasks.

Permanent waterproof connection - Cable junction boxes for encapsulating in accordance with DIN VDE V 0606-22-100



The evolution of the original continues.
Count on more to come!



**Permanent waterproof connection -
 Cable junction boxes for encapsulating in accordance with DIN VDE V 0606-22-100**



Time and time again, electricians come across installation environments whereby the ingress of water into an enclosure must be safely excluded. Even enclosures which have a high degree of protection cannot guarantee this. The IP degree of protection allows the ingress of non-harmful quantities of water in the interior of an enclosure.

Under extreme environmental conditions, for example, the accumulation of condensation may result in damage to the electrical installation or devices or cause these to malfunction.

Ventilation measures will often suffice to prevent harmful condensation from forming.

In many cases, however, ventilation is not possible, e.g. because the cable junction boxes are installed close to rivers and water could enter through the vent holes.



Which applications require waterproof connections?

- Pump shafts
- Ground-level installation ducts in outdoor areas
- Flood areas close to rivers
- Unprotected outdoor installations which are in close proximity to the ground



Why is the IP degree of protection alone not sufficient?

- All degrees of protection allowed water ingress
- The accumulation of condensation cannot always be prevented
- Ventilation measures cannot be applied in all environments

The waterproof connection:

Sealing the cable junction boxes with a fast setting, permanently elastic sealing compound completely the ingress of water and the excludes forming of condensation.

The sealing compound features outstanding insulation properties. As the compound is transparent, it is possible for visual inspections of the installation to be carried out at any time. The durable elastic material is self-sealing, therefore it is also easy for the electrical connections to be tested after they have been sealed.

The sealing compound can be easily removed for repairs, subsequent installations or changes to installations. Another benefit: the sealed cable junction boxes also offer reliable protection against shock and vibration. The sealing compound does not, however, provide strain relief as it only adheres to material and does not stick together. Suitable cable entries must also be used here, e.g. Hensel AKM.



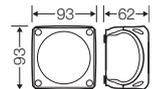
The ingress of water and formation of condensation are completely prevented.
 The sealing compound can be easily removed for subsequent installations or inspections.

Reference table: Cable junction boxes »Waterproof« old-new



Model	Present types	New types
1.5-2.5 mm ²	KF WP 3025	WP 0202 G WP 0402 G
1.5-4 mm ²	KF WP 3045	WP 0404 G WP 0604 G
2.5-6 mm ²	KF WP 3065	WP 0606 G WP 1006 G
4-10 mm ²	KF WP 3105	WP 1010 G
1.5-2.5 mm ²	KF WP 2025	WP 0202 B WP 0402 B
1.5-4 mm ²	KF WP 2045	WP 0404 B WP 0604 B
2.5-6 mm ²	KF WP 2065	WP 0606 B WP 1006 B
4-10 mm ²	KF WP 2105	WP 1010 B

- Cable entries via knockouts, order AKM/ASS separately
- For ground installation without live loads or in risk of condensation formation and ingress of liquids
- Installation permanently under water up to a depth of 1 meter possible
- In case of re-installation or testing the sealing compound can be removed easily
- Durability of sealing compound to processing ≥ 12 months



WP 0202 G RAL 7035
WP 0202 B RAL 9011
1.5-2.5 mm², Cu 3~

- 5-pole per pole 8 x 0.75 mm² f, 6 x 1.5 mm² sol / f, 4 x 2.5 mm² sol / f, 2 x 4 mm² sol / f
- enclosure volume 350 ml



rated insulation voltage	$U_i = 690$ V a.c./d.c.
current carrying capacity	20 A
tightening torque for terminal	0.5 Nm

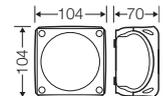


WP 0402 G RAL 7035
WP 0402 B RAL 9011
1.5-2.5 mm², Cu 3~

- 5-pole per pole 8 x 0.75 mm² f, 6 x 1.5 mm² sol / f, 4 x 2.5 mm² sol / f, 2 x 4 mm² sol / f
- enclosure volume 500 ml



rated insulation voltage	$U_i = 690$ V a.c./d.c.
current carrying capacity	20 A
tightening torque for terminal	0.5 Nm

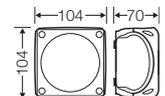


WP 0404 G RAL 7035
WP 0404 B RAL 9011
1.5-4 mm², Cu 3~

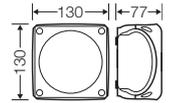
- 5-pole per pole 8 x 1.5 mm² sol / f, 6 x 2.5 mm² sol / f, 4 x 4 mm² sol / f, 2 x 6 mm² sol / f
- enclosure volume 500 ml



rated insulation voltage	$U_i = 690$ V a.c./d.c.
current carrying capacity	32 A
tightening torque for terminal	0.7 Nm



- Cable entries via knockouts, order AKM/ASS separately
- For ground installation without live loads or in risk of condensation formation and ingress of liquids
- Installation permanently under water up to a depth of 1 meter possible
- In case of re-installation or testing the sealing compound can be removed easily
- Durability of sealing compound to processing ≥ 12 months



WP 0604 G RAL 7035
WP 0604 B RAL 9011
1.5-4 mm², Cu 3~

- 5-pole per pole 8 x 1.5 mm² sol / f, 6 x 2.5 mm² sol / f, 4 x 4 mm² sol / f, 2 x 6 mm² sol / f
- enclosure volume 850 ml

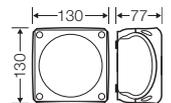
rated insulation voltage	U _i = 690 V a.c./d.c.
current carrying capacity	32 A
tightening torque for terminal	0.7 Nm



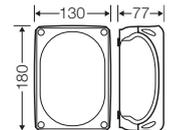
WP 0606 G RAL 7035
WP 0606 B RAL 9011
2.5-6 mm², Cu 3~

- 5-pole per pole 6 x 1.5 mm² sol / f, 4 x 2.5 mm² sol / f, 4 x 4 mm² sol / f, 4 x 6 mm² sol / f, 2 x 10 mm² sol / f
- enclosure volume 850 ml

rated insulation voltage	U _i = 690 V a.c./d.c.
current carrying capacity	40 A
tightening torque for terminal	1.5 Nm



- Cable entries via knockouts, order AKM/ASS separately
- For ground installation without live loads or in risk of condensation formation and ingress of liquids
- Installation permanently under water up to a depth of 1 meter possible
- In case of re-installation or testing the sealing compound can be removed easily
- Durability of sealing compound to processing ≥ 12 months



WP 1006 G RAL 7035
WP 1006 B RAL 9011
2.5-6 mm², Cu 3~

- 5-pole per pole 6 x 1.5 mm² sol / f, 4 x 2.5 mm² sol / f, 4 x 4 mm² sol / f, 4 x 6 mm² sol / f, 2 x 10 mm² sol / f
- enclosure volume 1200 ml

RAL
7035

rated insulation voltage	$U_i = 690 \text{ V a.c./d.c.}$
current carrying capacity	40 A
tightening torque for terminal	1.5 Nm

RAL
9011



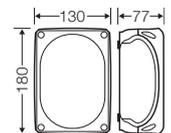
WP 1010 G RAL 7035
WP 1010 B RAL 9011
4-10 mm², Cu 3~

- 5-pole per pole 6 x 2.5 mm² sol, 4 x 4 mm² sol, 4 x 6 mm² sol, 4 x 10 mm² sol, 2 x 16 mm² s
- enclosure volume 1200 ml

RAL
7035

rated insulation voltage	$U_i = 690 \text{ V a.c./d.c.}$
current carrying capacity	63 A
tightening torque for terminal	2.0 Nm

RAL
9011





GH 0350

Set sealing compound, 350 ml

- as spares
- sealing compound for refilling after changes or repairs
- durability of sealing compound to processing \geq 12 months



GH 0500

Set sealing compound, 500 ml

- as spares
- sealing compound for refilling after changes or repairs
- durability of sealing compound to processing \geq 12 months



GH 0850

Set sealing compound, 850 ml

- as spares
- sealing compound for refilling after changes or repairs
- durability of sealing compound to processing \geq 12 months



GH 1200

Set sealing compound, 1200 ml

- as spares
- sealing compound for refilling after changes or repairs
- durability of sealing compound to processing \geq 12 months



PASSION FOR POWER.



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11.2014

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