



CONNECTING STEEL WIRE ARMoured CABLES (SWA)

# Cable junction boxes with PE inlay

Indoors, outdoors and in harsh environment, IP 66/IP 67



For more information see [www.hensel.in](http://www.hensel.in)

ENYCASE®

## Fast and safe connection of steel wire armoured cables (SWA)

in cable junction boxes with PE inlay

Steel wire armoured cables can be quickly and safely inserted and connected in Hensel cable junction boxes using GSC glands and are thus protected up to IP 66 / IP 67. The armouring of the cable is electrically connected via the GSC gland and the built-in PE inlay. Using an included PE bridge, even non-armoured cables can be easily connected to armoured cables in one cable junction box.



- Installation example: armoured cables with GSC glands and non-armoured cables with ASS glands are quickly and safely connected in one cable junction box.

## Thermoplastic cable junction boxes

for industrial and commercial buildings and outdoor installation

Thermoplastics cable junction boxes offer many advantages over traditional metal junction boxes. Ease of installation, lighter material with comparable strength to metal, cost savings and longer durability. Thermoplastics also offer greater flexibility of design whilst staying RUST FREE in harsher environments.



- for indoor and protected outdoor installation in industrial and commercial buildings
- weatherproof, for unprotected outdoor installation in harsh environment and offshore applications
- can be easily used in extreme environments and under tough conditions

## Cable junction boxes with many assembly advantages

for your everyday installation work



- Armoured cables are electrically connected via a steel PE inlay and the GSC screw-type gland.
- The PE bridge connector (included) enables armoured and non-armoured cables to be connected in one box.
- Detail: Armoured and non-armoured cables in one cable junction box
- **Modern terminal technology**
  - ample wiring space
  - different sizes of terminals can be installed in one box
  - all terminals with 2 clamping units per pole
  - every pole accepts different sized conductors
- **Variable cable entry**
  - via integrated elastic membranes
  - via cable glands after removing the elastic membrane and extension ring
  - via metric knockouts (series KF)
- **Flexible mounting options**
  - via external brackets, always included
  - through the bottom of the housing
  - from the outside on the back



### Series DK

#### Cable junction boxes with PE inlay

Cable entry via integrated elastic membranes or metric knockouts

- With PE inlay to connect the armour of SWA cable
- With pre-assembled cable for easy connection from PE inlay to terminal
- Closes quickly by a quarter turn - locked position well visible (open - locked)
- High-position terminals with more space for wiring
- Every pole allows the connection of various conductor cross sections and conductor types
- Terminals prevent damage of conductors, also with flexible conductors without ferrule
- Different terminal positions and fastening options
- Material: polypropylene or polycarbonate
- Burning behaviour: Glow wire test in accordance with IEC 60695-2-11: 750 °C / 960 °C, flame-retardant, self-extinguishing
- Colour: grey RAL 7035 or black RAL 9011

ENYCASE®

### Series DK

#### Cable junction boxes with PE inlay

Cable entry via integrated elastic membranes

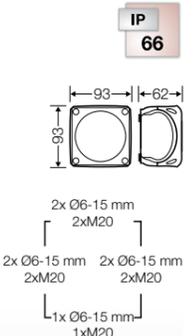


#### DK 0202 U

0.75-2.5 mm<sup>2</sup>, Cu 3~

- terminal with 2 clamping units per pole
- 5-pole per pole 8 x 0,75 mm<sup>2</sup> f, 6 x 1,5 mm<sup>2</sup> r / f, 4 x 2,5 mm<sup>2</sup> r / f, 2 x 4 mm<sup>2</sup> r / f
- with PE inlay to connect the armour of SWA cable
- with integrated elastic membranes, which can be removed for cable entry via cable glands, sealing range 6.0-15.0 mm
- lid fasteners sealable without accessories
- retaining strap and external brackets for wall fixing included

rated insulation voltage	U <sub>i</sub> = 690 V a.c./d.c.
rated current	20 A
material	PP (polypropylene)

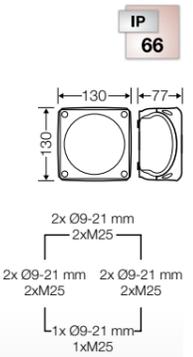


#### DK 0604 U

1.5-4 mm<sup>2</sup>, Cu 3~

- terminal with 2 clamping units per pole
- 5-pole per pole 8 x 1,5 mm<sup>2</sup> r / f, 6 x 2,5 mm<sup>2</sup> r / f, 4 x 4 mm<sup>2</sup> r / f, 2 x 6 mm<sup>2</sup> r / f
- with PE inlay to connect the armour of SWA cable
- with elastic membranes, which can be removed for cable entry via cable glands, sealing range 9.0-21.0 mm
- lid fasteners sealable without accessories
- retaining strap and external brackets for wall fixing included

rated insulation voltage	U <sub>i</sub> = 690 V a.c./d.c.
rated current	32 A
material	PP (polypropylene)



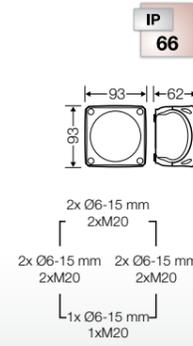
**Series DK**  
**Cable junction boxes with PE inlay**  
**Cable entry via integrated elastic membranes**



**DK 0200 U**

- without terminals
- with PE inlay to connect the armour of SWA cable
- with integrated elastic membranes, which can be removed for cable entry via cable glands, sealing range 6.0-15.0 mm
- lid fasteners sealable without accessories
- retaining strap and external brackets for wall fixing included

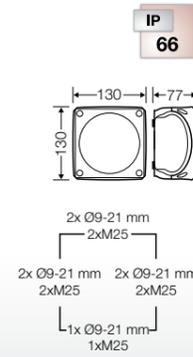
rated insulation voltage	$U_i = 1000 \text{ V a.c./d.c.}$
material	PP (polypropylene)
rated current	20 A



**DK 0600 U**

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rated insulation voltage	$U_i = 1000 \text{ V a.c./d.c.}$
material	PP (polypropylene)
rated current	32 A



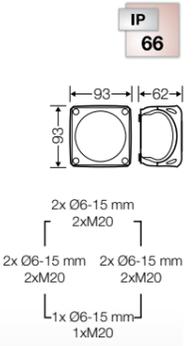
**Series DK**  
**Cable junction boxes with PE inlay**  
**Cable entry via integrated elastic membranes**



**DK 0202 V**  
**0.75-2.5 mm<sup>2</sup>, Cu 3~**

- terminal with 2 clamping units per pole
- 5-pole per pole 8 x 0,75 mm<sup>2</sup> f, 6 x 1,5 mm<sup>2</sup> r / f, 4 x 2,5 mm<sup>2</sup> r / f, 2 x 4 mm<sup>2</sup> r / f
- with PE inlay to connect the armours of SWA cables
- with integrated elastic membranes, which can be removed for cable entry via cable glands, sealing range 6.0-15.0 mm
- lid fasteners sealable without accessories
- retaining strap and external brackets for wall fixing included

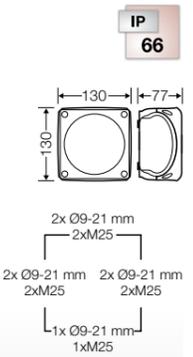
rated insulation voltage	$U_i = 690 \text{ V a.c./d.c.}$
rated current	20 A
material	PP (polypropylene)



**DK 0604 V**  
**1.5-4 mm<sup>2</sup>, Cu 3~**

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- 5-pole per pole 8 x 1,5 mm<sup>2</sup> r / f, 6 x 2,5 mm<sup>2</sup> r / f, 4 x 4 mm<sup>2</sup> r / f, 2 x 6 mm<sup>2</sup> r / f
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rated current	32 A
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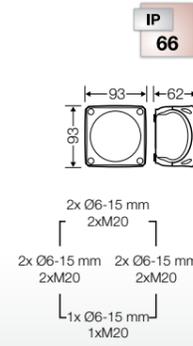
**Series DK**  
**Cable junction boxes with PE inlay**  
**Cable entry via integrated elastic membranes**



**DK 0200 V**

- without terminals
- with PE inlay to connect the armour of SWA cable
- with integrated elastic membranes, which can be removed for cable entry via cable glands, sealing range 6.0-15.0 mm
- lid fasteners sealable without accessories
- retaining strap and external brackets for wall fixing included

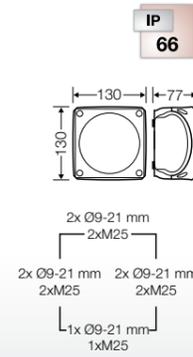
rated insulation voltage	$U_i = 1000 \text{ V a.c./d.c.}$
material	PP (polypropylene)
rated current	20 A



**DK 0600 V**

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- with PE inlay to connect the armour of SWA cable
- with elastic membranes, which can be removed for cable entry via cable glands, sealing range 9.0-21.0 mm
- lid fasteners sealable without accessories
- retaining strap and external brackets for wall fixing included

rated insulation voltage	$U_i = 1000 \text{ V a.c./d.c.}$
material	PP (polypropylene)
rated current	32 A



**Series DK**  
**Cable junction boxes with PE inlay**  
**Cable entry via metric knockouts**

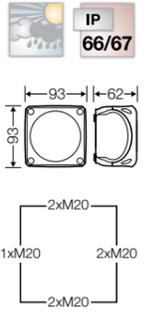


**KF 0202 U**

**0.75-2.5 mm<sup>2</sup>, Cu 3~**

- terminal with 2 clamping units per pole
- 5-pole per pole 8 x 0,75 mm<sup>2</sup> f, 6 x 1,5 mm<sup>2</sup> r / f, 4 x 2,5 mm<sup>2</sup> r / f, 2 x 4 mm<sup>2</sup> r / f
- with PE inlay to connect the armour of SWA cable
- cable entries via knockouts, order AKM / GSC separately
- „weatherproof“ resistant to weather influences (UV due to solar radiation, protected against rainwater, temperature resistant, impact resistant, etc.)
- saltwater-proof
- "offshore applications"
- lid fasteners sealable without accessories
- retaining strap and external brackets for wall fixing included

rated insulation voltage	$U_i = 690 \text{ V a.c./d.c.}$
rated current	20 A
material	PC-GFS (polycarbonate)

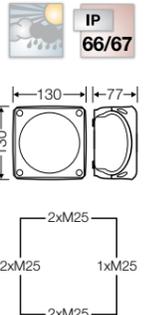


**KF 0604 U**

**1.5-4 mm<sup>2</sup>, Cu 3~**

- terminal with 2 clamping units per pole
- 5-pole per pole 8 x 1,5 mm<sup>2</sup> r / f, 6 x 2,5 mm<sup>2</sup> r / f, 4 x 4 mm<sup>2</sup> r / f, 2 x 6 mm<sup>2</sup> r / f
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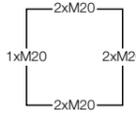
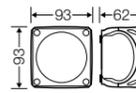
**Series DK**  
Cable junction boxes with PE inlay  
Cable entry via metric knockouts



**KF 0200 U**

- without terminals
- with PE inlay to connect the armour of SWA cable
- cable entries via knockouts, order AKM / GSC separately
- „weatherproof“ resistant to weather influences (UV due to solar radiation, protected against rainwater, temperature resistant, impact resistant, etc.)
- saltwater-proof
- "offshore applications"
- lid fasteners sealable without accessories
- retaining strap and external brackets for wall fixing included

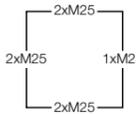
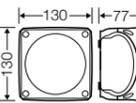
rated insulation voltage	$U_i = 1000 \text{ V a.c./d.c.}$
material	PC-GFS (polycarbonate)
rated current	20 A



**KF 0600 U**

- without terminals
- with PE inlay to connect the armour of SWA cable
- cable entries via knockouts, order AKM / GSC separately
- „weatherproof“ resistant to weather influences (UV due to solar radiation, protected against rainwater, temperature resistant, impact resistant, etc.)
- saltwater-proof
- "offshore applications"
- lid fasteners sealable without accessories
- retaining strap and external brackets for wall fixing included

rated insulation voltage	$U_i = 1000 \text{ V a.c./d.c.}$
material	PC-GFS (polycarbonate)
rated current	32 A



**Series DK**  
Cable junction boxes with PE inlay  
Cable entry via metric knockouts

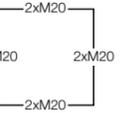
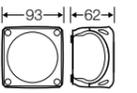


**KF 0202 V**

**0.75-2.5 mm<sup>2</sup>, Cu 3~**

- terminal with 2 clamping units per pole
- 5-pole per pole  $8 \times 0,75 \text{ mm}^2 \text{ f}$ ,  $6 \times 1,5 \text{ mm}^2 \text{ r / f}$ ,  $4 \times 2,5 \text{ mm}^2 \text{ r / f}$ ,  $2 \times 4 \text{ mm}^2 \text{ r / f}$
- with PE inlay to connect the armour of SWA cable
- cable entries via knockouts, order ASS / GSC separately
- „weatherproof“ resistant to weather influences (UV due to solar radiation, protected against rainwater, temperature resistant, impact resistant, etc.)
- saltwater-proof
- "offshore applications"
- lid fasteners sealable without accessories
- retaining strap and external brackets for wall fixing included

rated insulation voltage	$U_i = 690 \text{ V a.c./d.c.}$
rated current	20 A
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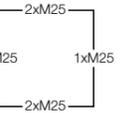
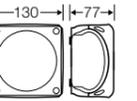


**KF 0604 V**

**1.5-4 mm<sup>2</sup>, Cu 3~**

- terminal with 2 clamping units per pole
- 5-pole per pole  $8 \times 1,5 \text{ mm}^2 \text{ r / f}$ ,  $6 \times 2,5 \text{ mm}^2 \text{ r / f}$ ,  $4 \times 4 \text{ mm}^2 \text{ r / f}$ ,  $2 \times 6 \text{ mm}^2 \text{ r / f}$
- with PE inlay to connect the armour of SWA cable
- cable entries via knockouts, order ASS / GSC separately
- "weatherproof" resistant to weather influences (UV due to solar radiation, protected against rainwater, temperature resistant, impact resistant, etc.)
- saltwater-proof
- "offshore applications"
- lid fasteners sealable without accessories
- retaining strap and external brackets for wall fixing included

rated insulation voltage	$U_i = 690 \text{ V a.c./d.c.}$
rated current	32 A
material	PC-GFS (polycarbonate)



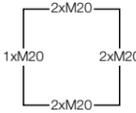
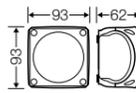
**Series DK**  
**Cable junction boxes with PE inlay**  
**Cable entry via metric knockouts**



**KF 0200 V**

- without terminals
- with PE inlay to connect the armour of SWA cable
- cable entries via knockouts, order ASS / GSC separately
- „weatherproof“ resistant to weather influences (UV due to solar radiation, protected against rainwater, temperature resistant, impact resistant, etc.)
- saltwater-proof
- "offshore applications"
- lid fasteners sealable without accessories
- retaining strap and external brackets for wall fixing included

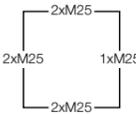
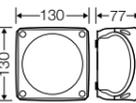
rated insulation voltage	U <sub>i</sub> = 1000 V a.c./d.c.
material	PC-GFS (polycarbonate)
rated current	20 A



**KF 0600 V**

- without terminals
- with PE inlay to connect the armour of SWA cable
- cable entries via knockouts, order ASS / GSC separately
- „weatherproof“ resistant to weather influences (UV due to solar radiation, protected against rainwater, temperature resistant, impact resistant, etc.)
- saltwater-proof
- "offshore applications"
- lid fasteners sealable without accessories
- retaining strap and external brackets for wall fixing included

rated insulation voltage	U <sub>i</sub> = 1000 V a.c./d.c.
material	PC-GFS (polycarbonate)
rated current	32 A



**Cable entry systems**  
**Cable glands for steel wire armoured cables (SWA)**



**GSC 20**

**Cable gland for SWA cable for knockouts M 20**

- sealing range: Ø 11,5-16 mm
- ISO thread M 20 x 1.5
- bore-hole: Ø 20.2 mm
- wall thickness of up to 5 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25 °C to + 55 °C
- colour: black

tightening torque	10,0 Nm
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**GSC 21**

**Cable gland for SWA cable for knockouts M 20**

- sealing range: Ø 14,5-20,5 mm
- ISO thread M 20 x 1.5
- bore-hole: Ø 20.2 mm
- wall thickness of up to 5 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25 °C to + 55 °C
- colour: black

tightening torque	10,0 Nm
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**GSC 25**

**Cable gland for SWA cable for knockouts M 25**

- sealing range: Ø 20,5-26,5 mm
- ISO thread M 25 x 1.5
- bore-hole: Ø 25.2 mm
- wall thickness of up to 5 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25 °C to + 55 °C
- colour: black

tightening torque	15,0 Nm
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**GSC 32**

**Cable gland for SWA cable for knockouts M 32**

- sealing range: Ø 26,5-33,5 mm
- ISO thread M 32 x 1.5
- bore-hole: Ø 32.3 mm
- wall thickness of up to 5 mm
- with strain relief and locknut
- for indoor (normal environment and/or protected outdoor) and outdoor installation (harsh environment and/or outdoor)
- ambient temperature - 25 °C to + 55 °C
- colour: black

tightening torque	20 Nm
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**Cable entry systems**  
Cable glands for steel wire armoured cables (SWA)



**ET 20**

- Earth tag to connect armours of steel wire armoured cables
- for cable glands GSC 20 and GSC 21



**ET 25**

- Earth tag to connect armours of steel wire armoured cables
- for cable glands GSC 25

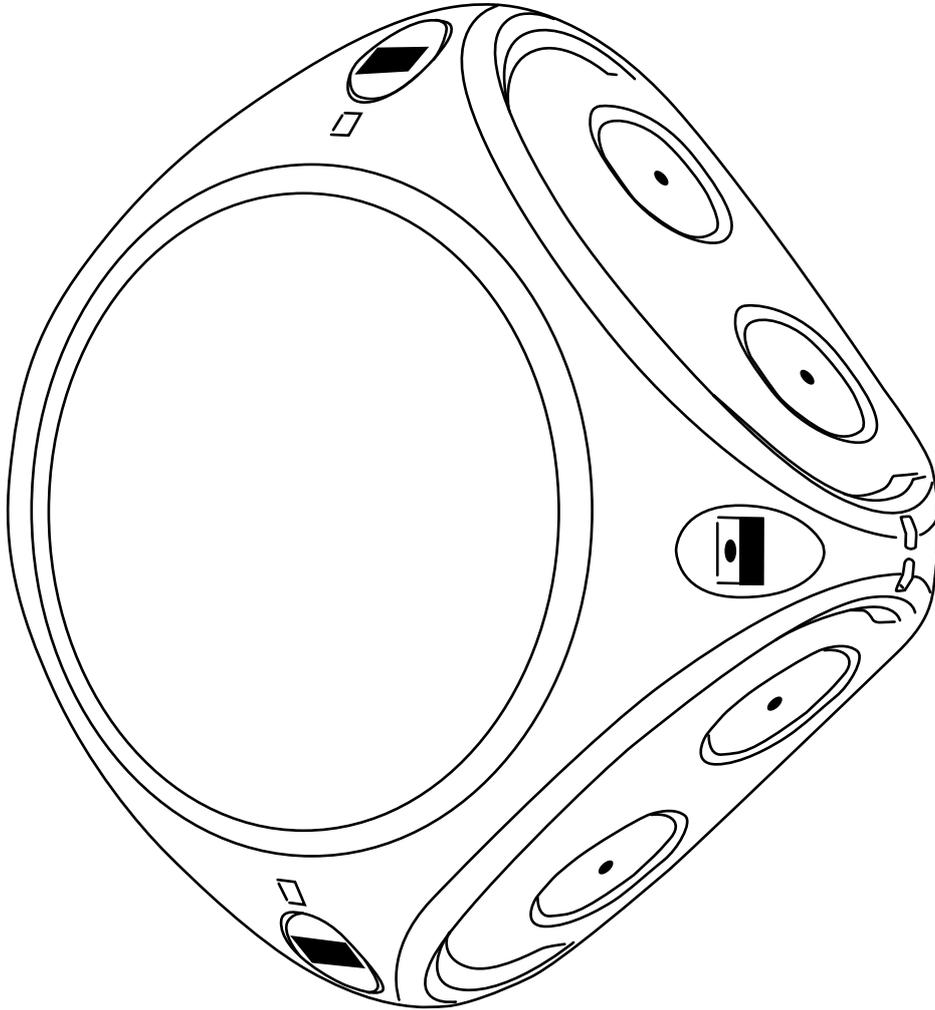


**ET 32**

- Earth tag to connect armours of steel wire armoured cables
- for cable glands GSC 32

**Series DK**  
Technical details  
Operating and ambient conditions

	Boxes with /without terminals	Boxes with /without terminals	GSC cable glands
	<b>DK ... V</b> <b>DK ... U</b>	<b>KF ... V</b> <b>KF ... U</b>	<b>GSC cable glands</b> <b>for steel wire armoured cable</b>
<b>Application area</b>	Suitable for indoor installation and outdoor installation, protected against weather influences	Suitable for for <b>outdoor installation</b> (harsh environment and/or outdoor)	Suitable for for <b>outdoor installation</b> (harsh environment and/or outdoor)
<b>Ambient temperature</b>			
- Average value over 24 hours	-	+ 55 °C	+ 55 °C
- Maximum value	+ 40 °C	+ 70 °C	+ 70 °C
- Minimum value	- 25 °C	- 25 °C	- 25 °C
<b>Fire protection</b> in the event of internal faults	Demands placed on electrical devices from standards and laws:  Minimum requirements - Glow wire test in accordance with IEC 60695-2-11: - 650 °C for boxes and cable glands - 850 °C for conducting components		
<b>Burning behaviour</b>			
- Glow wire test IEC 60695-2-11	750 °C	960 °C	650 °C
- UL Subject 94	V-2 flame-retardant self-extinguishing	V-0 flame-retardant self-extinguishing	HB flame-retardant self-extinguishing
<b>Degree of protection against mechanical load</b>	IK07 (2 Joule)	IK09 (10 Joule)	
<b>Toxic behaviour</b>	halogen-free silicone-free	halogen-free silicone-free	halogen-free silicone-free
	"Halogen-free" in accordance with IEC 60754-2 "Common test methods for cables - Determination of the amount of halogen acid gas".		



**Hensel Electric India Pvt Ltd**  
**Industrial Electrical Power Distribution Systems**

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