



Distribution Terminal Box for Signal Cables (SKV 20)

Signal cable distributors are outer casings to carry assemblies or connection components in the field of signaling technology. They are deployed in close proximity to rail tracks. The signal cable distributors are available in two different sizes with different components. They consist of a bottom part (base), which carries the connection components, a cover which protects the technical components and is removed for assembly works, and a mounting post. The base has knockouts for cable entries.

Material	glass fiber reinforced Polyester
	Bottom silver grey (RAL 7001)
	Cover yellow (RAL 1004) or Cover silver grey (RAL 7001)
Protection Type	PG Gland IP65 / others IP55
Operating temperatures	-25°C to +70°C

Cable Entry

The entries for all cables are in the base. The SKV variants have entries in different numbers and sizes. The pre-shaped entries are opened by the user and equipped by PG cable glands (only SKV 20) or clamping number and placement of the entries are predetermined. Clamping glands are fixed by two hexagonal screws at the SKV-base.



Base Type B



Base Type A

Clamping Glands

The clamping glands are of use used for cable entry, cable clamping and sealing. Material: Polyamide. The respecting sealing rings consist of several layers, which can be removed individually, to adjust the entries to different cable diameters. The clamping glands are mounted into the threaded sockets on the bottom with two screws.

Size 1: Outer cable diameter: max. 18 mm

Size 2: Outer cable diameter: max. 35 mm

Size 3: Outer cable diameter: max. 52 mm

Hose Stem

Hose Stem is used for flanging a protection hose onto the cable entry of the signal cable distributor.

Size: Outer cable diameter: max. 17 mm

Blind Flange

For closure of unused flange openings size 1 and 2.

Grounding

If necessary, the grounding is guided into the casing with an earth rode. Grounding is accessible through several screw connections.

Installation

SKV are mounted on one (SKV 20) respectively two (SKV 40/60) cast mounting posts 416 which are installed into the ground / track bed.

Connection technology

As connection technology two different systems are available: Screw-Type Terminals or Modules with Cage Clamps. Whichever system is deployed depends on the user.

Screw-Type Terminals

The connection modules have a mounting dimension of 96 mm and can connect up to 20 + 1 copper wires, modules with mounting connections of 170 mm can connect up to 40 + 1 copper wires. The screw-type terminals are arranged in two levels to increase density.

The modules are connection modules without any disconnection possibilities. Cables with a conductor diameter of 1.8 mm are suitable. In the field of signaling technology, the usual conductor diameters are 0.9 / 1.4 / 1.8 mm.

The modules allow the attachment of two different labeling holder which can be mounted on either side of the module. Wire guidance plates ensure the orderly guidance of the wires. The plates are designed with drilling holes through which the wires are guided before being terminated.

A big advantage hereby is that the allocation of wires stays the same even after de-termination, e.g. during switch-over works.

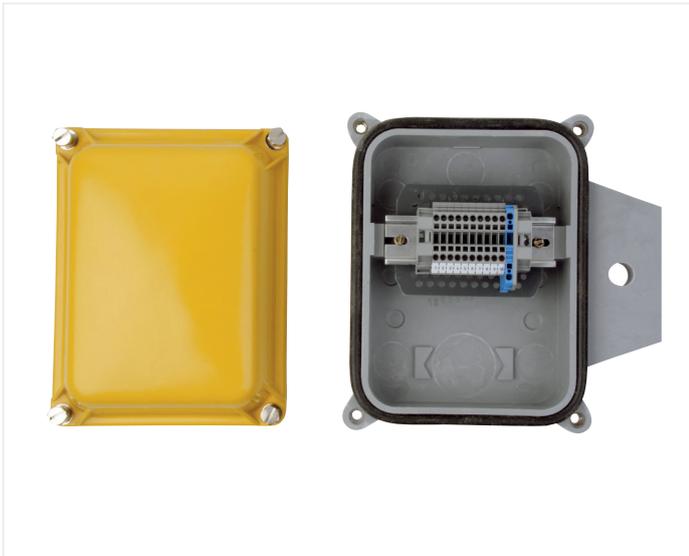
Technical Specifications	
Nominal Voltage	AC 500 V DC 600 V
Maximum Operating Current	15 A
Maximum Possible Wire Diameter	2.5 mm ²

Modules with Cage Clamps

The cage clamp technology has been used for many years in electrical engineering. First, the conductor must be stripped and then can be terminated with spring force. The modules are designed for diameters up to 11 mm. The system consists of several individual clamps, which can be arranged depending on the requirements and then be mounted onto standard top-hat rails (TS35). The clamps in the SKV are special cage clamps called double cage clamps, which are similar to the screw-type modules, have two termination levels to increase density. The clamps used in the SKV are approved by the department of the German Ministry of Transport (EBA). Top-hat rails which are necessary for mounting are part of an aluminium profile which additionally carries wire guide combs. Here the individual wires are pinched between plastic noses.

Technical Specifications	
Nominal Voltage	Wago 20 Connector: 500 V Wago X: 800 V Wago: 800 V
Maximum Operating Current	Wago 20 Connector: 500 V Wago X: 800 V Wago: 800 V
Maximum Possible Wire Diameter	Wago 20 Connector: 2,5 mm ² Wago X: 4,0 mm ² Wago: 2,5 mm ²

SKV 20



SKV 20

The SKV is a weather-proof plastic casing for distribution of signal cables.

For the different applications are different variants available. The connection unit is available as screw-type connector or as clamp unit with cage clamp technology. There are two different bases available: Type A (PG cable glands) and Type B (casual clamping glands). The installation is done with a mounting post which is fixed into the ground.

Specifications:

Technical Specifications	
Material	Polyester. Glass fiber reinforced
Colour	Casing: RAL 7001 (silver grey) Cover: RAL 1004 (yellow) or Cover: RAL 7001 (silver grey)
Cover Closure	Hexagon Screw M8
Protection Type	PG Gland IP65 / others IP55
Dimension (W x H x D)	228 x 120 x 232 mm
Termination Diameters	up to 1.8 mm (= 2.5 mm ²)
Weight	2.0 kg, empty case: 1.8 kg
Scope of Delivery	Clamp modules for signal cable, wire guide plate and termination plan (except empty casing)
Additional parts	To be ordered separately: clamping glands, hose stem, PG-fitting, earth pole, mounting pole.

SKV 40/60



SKV 40/60

The SKV 40/60 are weather-proof plastic casings for distribution of signal cables. It is possible to terminate up to 60 wires. The SKV 40/60 is equipped with screw-type connection modules. The base is prepared for use of clamping glands. The installation is done with two mounting posts which are fixed into the ground.

Specifications:

Technical Specifications	
Material	Polyester. Glass fiber reinforced
Colour	Casing: RAL 7001 (silver grey) Cover: RAL 1004 (yellow)
Cover Closure	Hexagon Screw M8
Protection Type	PG Gland IP65 / others IP55
Dimension (W x H x D)	370 x 140 x 380 mm
Termination Diameters	up to 1.8 mm (= 2.5 mm ²)
Weight	6.15 kg, empty case: 5.55 kg
Cable Entry	Casing is prepared for max. 6 clamping glands size 1 or max. 4 clamping glands size 2
Scope of Delivery	Clamp modules for signal cable, wire guide plate and termination plan
Additional parts	To be ordered separately: clamping glands, hose stem, PG-fitting, earth pole, mounting pole (2pcs).

Ordering Information:

Catalog Number	Product Description	Reference Number
SKV 20		
DE620006374	SKV 20 empty, without earth bolt/without accessories/base type B/with yellow cover	28-000-10400
DE620009899	SKV 20 empty, without earth bolt with accessories/base type B/with yellow cover	28-000-10426
DE620006366	SKV 20 empty/base type A/with yellow cover	28-000-00000
DE620030192	SKV 20 cover, yellow with sealing	28024-019 25
DE620006465	SKV 20 cage clamp module for 20 poles/with earth bolt/base type B/with yellow cover	28-020-00400
DE620006473	SKV 20 connection module screw-screw 21-pole, without earth bolt/with wire guide plate/ base type B/with yellow cover	28-021-05400
DE620045489	SKV 20 cage clamp serial terminals for 6 poles/base type B/with grey cover	28-020-00828
DE620045265	SKV 20 cage clamp serial terminals for 6 poles/base type B/with grey cover	28-020-00827
DE620040472	SKV 20 cage clamp serial terminals for 11 poles/without earth bolt with wire guide plate/ base plate A/with yellow cover (use of clamping glands not possible)	28-020-00800
UU009334424	SKV 20 cage clamps for 10 pairs/base type B/with grey cover	28-020-00900
DE620042247	SKV 20 equipped with 11 serial terminals/base type A/grey cover	28-020-00825
UU007830886	SKV 20 connection module screw-screw 21-poles/base type B/with grey cover	28-021-5426
SKV 40 / 60		
DE620009931	SKV 40/ 60 empty, with earth bolt / with yellow cover	28-000-28400
DE620010244	SKV 40 connection modules screw-screw 2 x 20 + 1 poles / with earth bolt / with yellow cover	28-040-28400
DE620006507	SKV 60 connection modules screw-screw 3 x 20 + 1 poles / with earth bolt / with yellow cover	28-060-28400
Accessories		
DE620006481	Mounting post 416	28030-500 00
DE620010582	Earth bolt	28179-502 00
DE620006457	Hose stem size 1 (wire- \varnothing 17 mm, hole spacing 52 mm)	28011-596 00
DE620006408	Clamping gland size 1 (wire- \varnothing 18 mm, hole spacing 52 mm)	28008-500 00
DE620006424	Clamping gland size 2 (wire- \varnothing 35 mm, hole spacing 68 mm)	28008-501 00
DE620010087	Clamping gland size 3 (wire- \varnothing 52 mm, Lochabstand 88 mm)	28008-502 00
DE620006432	Blind flange size 1 (hole spacing 52 mm)	28011-584 00
DE620006440	Blind flange size 2 (hole spacing 68 mm)	28011-585 00
DE620020516	Label holder, short 104 mm for 21 - pole terminal blocks	71156-507 00
DE620020532	Label holder, long 178 mm for 41 - pole terminal blocks	71156-510 00
DE620020581	Wire guide plates, short version for 21 - pole terminal block	75111-504 00
DE620020599	Wire guide plate, long version for 41 - pole terminal blocks	75111-505 00
DE620020573	Connection module 21-pole screw-screw	75101-638 00
DE620005079	Connection module 41-pole screw-screw	75101-639 00
DE620020482	Connection module 41-pole screw-solder	71101-645 00



Corning Optical Communications GmbH & Co. KG • Leipziger Strasse 121 • 10117 Berlin, GERMANY
 +00 800 2676 4641 • FAX: +49 30 5303 2335 • www.corning.com/opcomm/emea

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