



# ecofil i

## 5G16mm<sup>2</sup>

**Efficient cabling for both power supply and distribution and also for feeding distribution boxes.**

Connecting box 5x16mm<sup>2</sup>, No. 49615.

- Direct connection of loads at any point of the cable.
- Flat cable connected by means of pointed screws, without the cable insulation having to be stripped.
- Connection of one round cable up to 5x16mm<sup>2</sup>, by means of screws.
- For supply or branching of flat cable.
- For rational installations it is recommended to use an electric screwdriver (Please observe the tightening torques!)

### **Where are these flat cables used?**

- As flexible power rails for the supply of machinery
- As rising mains
- For the supply of distribution blocks
- For exhibitions and trade fairs
- For temporary installations on building sites
- For the lighting of tunnels
- For the shipbuilding
- For the lighting of halls



# ecofil i 5G16mm<sup>2</sup>

## Flat cable 5G16mm<sup>2</sup>

5.2.86

-3-phase electric main for power distribution or supply of loads (devices and machines)  
-asymmetric flat cable to avoid reverse polarity



Flat cable of PVC, oil resisting  
3L+N+PE



Flat cable halogen-free  
3L+N+PE

No.

**49605**

113 289 680

**49606**

113 299 680

### Technical data

	49605	49606
Sheath	PVC, oil resisting	Polyolefine, halogen-free
Colour of the sheath	light grey <sup>1</sup>	light grey <sup>2</sup>
Dimensions	48.5x11.3mm	48.5x11.3mm
Weight	1.3kg/m	1.3kg/m
Fire load	2.95kWh/m	2.95kWh/m
No. of leads x cross-section	5x16mm <sup>2</sup>	5x16mm <sup>2</sup>
Copper conductors	bare, highly flexible	bare, highly flexible
Insulation of the leads	PVC	Polyethylene Compound, halogen-free
Colour of the leads	brown, blue, green/yellow, black, grey	brown, blue, green/yellow, black, grey
Test voltage	4kV, 50Hz	4kV, 50Hz
Rated voltage	0.6/1kV	0.6/1kV
Packing unit	250m/500m	250m/500m

### Accessories

see page

see page

	49605	5.2.87	49606	5.2.87
Connecting box	49615	5.2.87	49615	5.2.87
Branching box	49616	5.2.88	49616	5.2.88
Branching box with distribution block	49618/..	5.2.89	49618/..	5.2.89
Cable end piece	49630	5.2.90	49630	5.2.90
Clamp	49634	5.2.90	49634	5.2.90
Stripping tool	49633	5.2.90	49633	5.2.90
Shears	49929	5.2.90	49929	5.2.90
Insulating tape	49632	5.2.90	49632	5.2.90

<sup>1</sup> other colours on request (e.g. red, white, black)

<sup>2</sup> other colours on request (e.g. red, white, black)

# ecofil i 5G16mm<sup>2</sup>

Connecting box 5x16mm<sup>2</sup> to flat cables No. 49605 and 49606

- red indicators to control if the pointed screws are correctly turned in
- suitable for high requirements
- reverse polarity protection
- longitudinal connection



Connecting box 5x16 mm<sup>2</sup>  
with 1 outlet M40x1.5  
for round cable 5x16 mm<sup>2</sup>

No.

**49615**

150 285 037

## Technical data

Weight	800g
Dimensions LxWxH	200x85x91mm
Fire load	3.30kWh
Plastic parts	black, halogen-free
Metal parts	corrosion-resistant
Pointed screws	tightening torque 3.5Nm, Phillips-head screwdriver No. 2
Clamping screws	tightening torque 3.5Nm, Phillips-head screwdriver No. 2
Rated cross-section	16mm <sup>2</sup>
Rated voltage	690V
Max. rated current	64A
Packing unit	1 pce.
Degree of protection	IP65

## Accessories

see page

Cable glands	49635	5.2.91
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# ecofil i 5G16mm<sup>2</sup>

Branching box up to 5x10mm<sup>2</sup> to flat cables No. 49605 and 49606

5.2.88

- red indicators to control if the pointed screws are correctly turned in.
- suitable for high requirements
- reverse polarity protection



Branching box with 2 outlets M25x1.5  
for 1 round cable max. 5x10mm<sup>2</sup>  
or 2 round cables 5x6mm<sup>2</sup>

No.

**49616**

150 713 037

## Technical data

Weight	650g
Dimensions LxWxH	200x85x73mm
Fire load	2.97kWh
Plastic parts	black, halogen-free
Metal parts	corrosion-resistant
Pointed screws	tightening torque 3.5Nm, Phillips-head screwdriver No. 2
Clamping screws	tightening torque 2Nm, Phillips-head screwdriver No. 2
Rated cross-section	16mm <sup>2</sup>
Rated voltage	690V
Max. rated current	64A
Packing unit	1 pce.
Degree of protection	IP65

## Accessories

see page

Cable glands	49628, 49629, 49637	5.2.90, 5.2.91
Blind plug	49639	5.2.91

# ecofil i 5G16mm<sup>2</sup>

## Branching box with distribution block

-distribution blocks fitted with any type of switching equipment or sockets



Branching box No. 49616 with distribution block with safety cutouts



Connecting box No. 49616 with distribution block with sockets

5.2.89

No.

**49618/..**

**49618/..**

### Technical data

Fire load	according to equipment	according to equipment
Voltage Ui	400V	400V
Number of devices	for max. 4, 5 devices	for max. 4, 5 devices
Number of modules	4	4
Inputs	lateral / frontal	lateral / frontal
Packing unit	1 pce.	1 pce.
Connecting box	branching box 5x6mm <sup>2</sup> No. 49616 1 outlet on the front side obturated with 1 blind plug No. 49639 1 outlet on the other side directly linked to a distribution block (plastic box of 170x105x97 mm)	branching box 5x6mm <sup>2</sup> No. 49616 1 outlet on the front side obturated with 1 blind plug No. 49639 1 outlet on the other side directly linked to a distribution block (plastic box of 200x120x90 mm)
Equipment of distribution block	1 mounting rail according to EN 60715 TH35 1 terminal No. 3452/6BL 1 earthing terminal No. 30544/4V cutouts according to preference	1 safety cutout 16 A 1 neutral disconnecting terminal 1 earthing terminal and also 1 socket 10 A, completely wired  Flat cable 5x16mm <sup>2</sup> together with this type of boxes have been installed for the lighting of a highway tunnel.
Degree of protection	IP54	IP54

# ecofil i 5G16mm<sup>2</sup>

## Cable end piece

5.2.90



**49630**  
150 901 127

Of polycarbonate, halogen-free, transparent  
Dimensions: 80x30x57mm  
Weight: 44g  
Fire load: 0.31kWh  
Packing unit: 10 pce.

Note:  
Before mounting the cable, first strip it at both ends for a distance of 19mm so that the specified creepage distance will be observed.

## Clamp



**49634**  
120 018 017

Of galvanized steel  
Dimensions: 10x77x1mm  
Weight: 7g  
Packing unit: 100 pce.

## Cable stripping tool



**49633**  
983 053 057

The cable stripping tool allows the sheath to be split up on the narrow sides of the cable. Both sheath parts may then be cut by means of the shears.  
Packing unit: 1 pce.

Note:  
The cable has to be stripped at both ends for a distance of 20mm so that the conductors can be inserted properly in the end pieces.

## Shears



**49929**  
983 045 037

For cutting neatly and easily every type of flat cables.  
Packing unit: 1 pce.

## Insulating tape



**49632**  
150 901 147

To reinsulate correctly the holes due to pointed screws or cutting teeth when removing or displacing connections.  
Insulating tape trademark "Scotch 2210", synthetic caoutchouc-based product, PVC coated black.  
Weatherproof, self-fusing.  
Dimensions: 50mmx1m  
Dielectric strength: max. 18kV/mm  
Temperature: max. +70°C  
Packing unit: 1 meter

## Cable glands



**49628**  
121 730 607

Of polyamide, grey  
M25x1.5  
diameter of cables Ø 9-16mm  
delivered with O-ring seal of NBR, Ø 22x2mm  
Packing unit: 5 pce.

## Accessories

### Cable glands



**49629**  
121 730 617

Of polyamide, grey  
M25x1.5  
Diameter of cables: Ø 13-18mm  
Delivered with O-ring seal of NBR, Ø 22x2mm  
Packing unit: 5 pce.

### Cable glands



**49635**  
121 720 807

Of plastic material, black M40x1.5  
Diameter of cables: Ø 20-26mm  
Delivered with O-ring seal of NBR  
Packing unit: 5 pce.

### Cable glands



**49637**  
121 100 607

Of nickel-plated brass, M25x1.5  
Diameter of cables: Ø 11-20.5mm  
Delivered with O-ring seal of NBR, Ø 22x2mm  
Packing unit: 5 pce.

### Blind plug



**49639**  
126 227 014

Of plastic material, black M25x1.5  
Delivered with O-ring seal  
Packing unit: 5 pce.