BRUMBERG®

Licht seit Generationen

# QualityFlex®

FLEXIBLE LIGHTING DESIGN

« Light is a symbol,
of life and joy. »
Honoré de Balzac

# ATMOSPHERIC LIGHTING

## Perfect ambient light with QualityFlex® Select LED light strips

The rhythm of our life is becoming increasingly more rapid. Work and living environments are changing. More and more people are consciously looking for the balance between action and relaxation. In this way, they maintain their balance between work and life – the indicator of our quality of life.

### THE INTERPLAY OF FUNCTIONAL AND AMBIENT LIGHT

Light is playing an increasingly important role in designingour work and living environments. Strictly speaking, light can perform numerous tasks. Depending on the brightness and light colour, it can have a stimulating or calming effect. Ambient light creates a pleasant atmosphere in the perfect interplay with functional lighting.

### QUALITYFLEX® SELECT – PERFECT FOR ATMOSPHERIC LIGHTING.

QualityFlex® Select LED stripsare perfect for atmospheric lighting. They are flexible and can be customized to individual lengths and integrated perfectly into the architecture of buildings and rooms.

Ceiling panels and recesses can be lit with QualityFlex®, and room dividers are highlighted to great effect. The LED light strips create a genuine sense of well-being in wellness areas. Integrated into entrance areas or roof edges, they are effective in exterior areas as well.

QualityFlex® Select is frequently used in retail stores, the restaurant and hotel industries as well as in the upscale private sector. Expert advice about lighting technology and prefabrication to the desired lengths are part of Brumberg service.

# THE PRODUCT LINE

## Large selection. Rapid availability. Prefabricated delivery.

### QUALITYFLEX SELECT

LED flex strips available in a solid design and in individually selectable lengths. Design up to 5 m with 4.8 W, 9.6 W, 14.4 W, 19.2 W or 28.8 W. Design up to 15 m with 5 W, 10 W or 20 W. All LED flex strips come in 4 white temperatures – from cool white to warm white – and in 3 protection classes – IP00, IP62 and IP67 – for indoor and outdoor applications.19.2 W flex strips as TunableWhite version (IP00) as well as vitaLED® colour strip (IP00 and IP62). High lumen output and luminous efficiency per metre. Customized delivery with single end power feed of 300 mm to 350 mm and optional plug-in system available.

## PROFILES

Expanded product range of recessed and extruded profiles for a wide range of installation and lighting situations. Available in various lengths of 1 m, 2 m or prefabricated to the desired length.

## ACCESSORIES

Expanded product line of useful components. For each profile, a selected choice of accessories is available, such as covers, end caps and profile mountings.

# QUALITYFLEX® SELECT IN A NEW QUALITY.

## Four white light colours, three protection classes and individual lengths.

Invisible and yet striking – the QualityFlex® Select LED flex strips are jacks of all trades in ambient lighting. They create atmosphere accents in interior and exterior areas. At the same time, they are highly efficient and long-lasting.

### QUALITYFLEX® SELECT EDITION 2016.

QualityFlex® Select has achieved a new level of qualityin the Edition 2016. The white or coloured light strips are available in a variety of colour temperatures and light colours. As a rolled product with power inputs at both ends and individual divisibility of the segments (corresponding to the pre-set division segments), QualityFlex® Select is highly flexible.

### MAXIMUM COLOUR FIDELITY IN FOUR WHITE TONES

The QualityFlex® Select programme features maximumcolour fidelity and a variety of white colour temperatures. Each LED flex strip is available in cool white, neutral white and in two warm white tones.

### THREE PROTECTION CLASSES FOR INTERIOR AND EXTERIOR AREAS.

With the three protection classes, IP00, IP62 and IP67, QualityFlex® Select can be used with correct installation in damp locations without quality loss or safety risk. Integrated into the ceilings of pool and wellness oases, QualityFlex® Select provides a soothing atmosphere . Furthermore, the LED flex strips are provided with a silicon coating in the IP67 protection class. They can thus also be used in bathrooms and wellness and outdoor areas.

### CUTTING POINTS FOR EASY DIVISIBILITY

QualityFlex® Select demonstrates its great flexibility in adapting to individual customer requirements. The flexible LED light strips can be easily customized to the desired length. The division segments are indicated by marked cutting points.

## PERFECTLY MATCHED QUALITYFLEX® SELECT PROFILES

Brumberg has achieved optimal thermal management in the interaction between the QualityFlex® Select LED strips and the recessed and extruded profiles. The profiles conduct away heat and at the same time protect the light strips. The matching profiles are in each case clearly assigned to the LED flex strips. This provides electricians and lighting planners a high level of safety when planning their projects.

## EASY INSTALLATION WITH ADHESIVE FILMAND PLUG-IN SYSTEM.

High quality 3M adhesive film on the bottom of the strips facilitates the assembly of QualityFlex® Select in the aluminium profiles. Outfitting with a plug-in system is also optionally available for parallel inputs of several LED flex strips. The manufacture with power supply cables attached at both ends simplifies the installation of QualityFlex® Select.

## A WIDE RANGE OF ACCESSORIES

The expanded QualityFlex® Select product line includes useful accessories. For example, if the profiles are furnished with frosted or matt coverings, a more even light emission results. In addition to the matching end pieces and end caps, Brumberg also offers sets with mounting elements and screws.

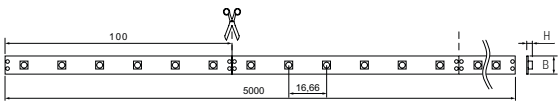
## CUSTOMIZATION SERVICE

On request, Brumberg supplies prefabricated QualityFlex® Selectstrips. For this purpose, the entire roll length is divided into the smallest divisible unit of length. This unit of length is identified in the catalogue for each QualityFlex® Select light strip. To order the desired overall length, simply order a multiple of the respective smallest unit of length plus the customization service. You can find additional information about this on pages 60-61.

# 15201... / 15221... / 15271...
## LED flexible strip 4.8 W/m

24V DC

IP00/IP62 IP67



## Specification

Flexible LED conductor strips fitted with 300x SMD 3528 LEDs; power: max. 24 W (4.8 W/m), beam angle: 120°, width: 8-11 mm, length: 5,000 mm, easily cut every 100 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends; length 350 mm each.

**To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 32)**.

**Electrical data**
Nominal voltage [V DC]: 24
Protection class: III
Max. efficiency [lm/W]: 75
Power input [W/m]: 4.8
Number of LEDs per metre. 60
Current [mA/Chip]: 20

**Mechanical data**
Separable length [mm]: 100
Short Pitch [mm]: 16.66
max. module length [mm]: 5,000

**Temperature data**
Ambient temperature [°C]:
-20 - +50

**Luminaire data**
Beam angle: 120°
CRI>85

*Intended purpose: special product for a decorative application. Not appropriate for use in other applications.

### IP00

| Article no./5 m | Price € | Article no./100 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 15201027 | 98.00 | 75201027 | 2.35 | 2700 K | about 360 lm | A+ | 8 x 2.4 mm |
| 15201003 | 98.00 | 75201003 | 2.35 | 3100 K | about 360 lm | A+ | 8 x 2.4 mm |
| 15201004 | 98.00 | 75201004 | 2.35 | 4100 K | about 360 lm | A+ | 8 x 2.4 mm |
| 15201005 | 98.00 | 75201005 | 2.35 | 6000 K | about 360 lm | A+ | 8 x 2.4 mm |
| 15201008 | 98.00 | 75201008 | 2.35 | | about 66 lm | * | 8 x 2.4 mm |
| 15201006 | 98.00 | 75201006 | 2.35 | | about 140 lm | * | 8 x 2.4 mm |
| 15201009 | 98.00 | 75201009 | 2.35 | | about 150 lm | * | 8 x 2.4 mm |
| 15201007 | 98.00 | 75201007 | 2.35 | | about 230 lm | * | 8 x 2.4 mm |
| | | 75998000 | 10.20 | Customization for protection class IP00 | | | |

### IP62

| Article no./5 m | Price € | Article no./100 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 15221027 | 129.00 | 75221027 | 3.10 | 2700 K | about 259 lm | A | 8 x 2.7 mm |
| 15221003 | 129.00 | 75221003 | 3.10 | 3100 K | about 259 lm | A | 8 x 2.7 mm |
| 15221004 | 129.00 | 75221004 | 3.10 | 4100 K | about 259 lm | A | 8 x 2.7 mm |
| 15221005 | 129.00 | 75221005 | 3.10 | 6000 K | about 259 lm | A | 8 x 2.7 mm |
| | | 75999000 | 15.30 | Customization with increased protection rating | | | |

Resistant silicon coating, impervious to any mechanical stress; wipeable.

### IP67

| Article no./5 m | Price € | Article no./100 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 15271027 | 149.00 | 75271027 | 3.60 | 2700 K | about 237 lm | A | 11 x 4 mm |
| 15271003 | 149.00 | 75271003 | 3.60 | 3100 K | about 237 lm | A | 11 x 4 mm |
| 15271004 | 149.00 | 75271004 | 3.60 | 4100 K | about 237 lm | A | 11 x 4 mm |
| 15271005 | 149.00 | 75271005 | 3.60 | 6000 K | about 237 lm | A | 11 x 4 mm |
| 15271008 | 149.00 | 75271008 | 3.60 | | about 43 lm | * | 11 x 4 mm |
| 15271006 | 149.00 | 75271006 | 3.60 | | about 92 lm | * | 11 x 4 mm |
| 15271009 | 149.00 | 75271009 | 3.60 | | about 99 lm | * | 11 x 4 mm |
| 15271007 | 149.00 | 75271007 | 3.60 | | about 151 lm | * | 11 x 4 mm |
| | | 75999000 | 15.30 | Customization with increased protection rating | | | |

White, light-reflecting support profile with resistant silicon coating. Optimum protection against mechanical stress and moisture; wipeable.



Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

# Accessories for 15201... / 15221... / 15271...

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## Fields of application

Decorative as well as accent lighting of lighting coves, linear applications and backlighting, such as furniture, shelves, display cases, shadow gaps and many others.

## Driver

Starting on page 54, you can find appropriate drivers

## Controllers

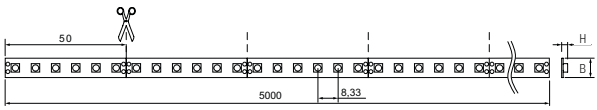
Starting on page 56, you can find controllers for all signal types

KNX | DALI | 1 - 10 V | DMX

# 15202... / 15222... / 15272...
## LED flexible strip 9.6 W/m

24V DC

IP00/IP62 IP67



## Specification

Flexible LED conductor strips fitted with 600x SMD 3528 LEDs; power: max. 48 W (9.6 W/m), beam angle: 120°, width: 8-11 mm, length: 5,000 mm, easily cut every 50 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends; length 350 mm each.

**To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 32)**.

**Electrical data**
Nominal voltage [V DC]: 24
Protection class: III
Max. efficiency [lm/W]: 75
Power input [W/m]: 9.6
Number of LEDs per metre. 120
Current [mA/Chip]: 20

**Mechanical data**
Separable length [mm]: 50
Short Pitch [mm]: 8.33
max. module length [mm]: 5,000

**Temperature data**
Ambient temperature [°C]:
-20 - +50

**Luminaire data**
Beam angle: 120°
CRI>85

### IP00

| Article no./5 m | Price € | Article no./50 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 15202027 | 175.00 | 75202027 | 2.10 | 2700 K | about 720 lm | A+ | 8 x 2.4 mm |
| 15202003 | 175.00 | 75202003 | 2.10 | 3100 K | about 720 lm | A+ | 8 x 2.4 mm |
| 15202004 | 175.00 | 75202004 | 2.10 | 4100 K | about 720 lm | A+ | 8 x 2.4 mm |
| 15202005 | 175.00 | 75202005 | 2.10 | 6000 K | about 720 lm | A+ | 8 x 2.4 mm |
| | | 75998000 | 10.20 | Customization for protection class IP00 | | | |

### IP62

| Article no./5 m | Price € | Article no./50 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 15222027 | 198.00 | 75222027 | 2.40 | 2700 K | about 518 lm | A | 8 x 2.7 mm |
| 15222003 | 198.00 | 75222003 | 2.40 | 3100 K | about 518 lm | A | 8 x 2.7 mm |
| 15222004 | 198.00 | 75222004 | 2.40 | 4100 K | about 518 lm | A | 8 x 2.7 mm |
| 15222005 | 198.00 | 75222005 | 2.40 | 6000 K | about 518 lm | A | 8 x 2.7 mm |
| | | 75999000 | 15.30 | Customization with increased protection rating | | | |

Resistant silicon coating, impervious to any mechanical stress; wipeable.

### IP67

| Article no./5 m | Price € | Article no./50 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 15272027 | 229.00 | 75272027 | 2.75 | 2700 K | about 475 lm | A | 11 x 4.2 mm |
| 15272003 | 229.00 | 75272003 | 2.75 | 3100 K | about 475 lm | A | 11 x 4.2 mm |
| 15272004 | 229.00 | 75272004 | 2.75 | 4100 K | about 475 lm | A | 11 x 4.2 mm |
| 15272005 | 229.00 | 75272005 | 2.75 | 6000 K | about 475 lm | A | 11 x 4.2 mm |
| | | 75999000 | 15.30 | Customization with increased protection rating | | | |

White, light-reflecting support profile with resistant silicon coating. Optimum protection against mechanical stress and moisture; wipeable.



Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

Kraus Elektro, Vaterstetten (Germany)

# Accessories for 15202... / 15222... / 15272...

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## Fields of application

Technical as well as efficient lighting of lighting coves, linear applications and backlighting, such as furniture, shelves, display cases, shadow gaps and many others.

## Driver

Starting on page 54, you can find appropriate drivers

## Controllers

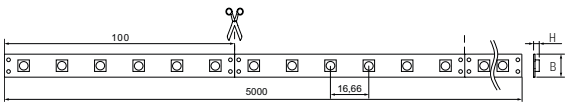
Starting on page 56, you can find controllers for all signal types

KNX | DALI | 1 - 10 V | DMX

# 15203... / 15223... / 15273...
## LED flexible strip 14.4 W/m

24V DC

IP00/IP62 IP67



## Specification

Flexible LED conductor strips fitted with 300x SMD 5050 LEDs; power: max. 72 W (14.4 W/m), beam angle: 120°, width: 10-12.7 mm, length: 5,000 mm, easily cut every 100 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends; length 350 mm each.

**To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 32)**.

**Electrical data**
Nominal voltage [V DC]: 24
protection class: III
Max. efficiency [lm/W]: 75
Power input [W/m]: 14.4
Number of LEDs per metre. 60
Current [mA/Chip]: 60

**Mechanical data**
Separable length [mm]: 100
Short Pitch [mm]: 16.66
max. module length [mm]: 5,000

**Temperature data**
Ambient temperature [°C]:
-20 - +50

**Luminaire data**
Beam angle: 120°
CRI>85

### IP00

| Article no./5 m | Price € | Article no./100 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 15203027 | 198.00 | 75203027 | 4.75 | 2700 K | about 1080 lm | A | 10 x 2.2 mm |
| 15203003 | 198.00 | 75203003 | 4.75 | 3100 K | about 1080 lm | A | 10 x 2.2 mm |
| 15203004 | 198.00 | 75203004 | 4.75 | 4100 K | about 1140 lm | A | 10 x 2.2 mm |
| 15203005 | 198.00 | 75203005 | 4.75 | 6000 K | about 1200 lm | A+ | 10 x 2.2 mm |
| | | 75998000 | 10.20 | Customization for protection class IP00 | | | |

### IP62

| Article no./5 m | Price € | Article no./100 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 15223027 | 249.00 | 75223027 | 6.00 | 2700 K | about 770 lm | A | 10 x 2.5 mm |
| 15223003 | 249.00 | 75223003 | 6.00 | 3100 K | about 770 lm | A | 10 x 2.5 mm |
| 15223004 | 249.00 | 75223004 | 6.00 | 4100 K | about 820 lm | A | 10 x 2.5 mm |
| 15223005 | 249.00 | 75223005 | 6.00 | 6000 K | about 864 lm | A | 10 x 2.5 mm |
| | | 75999000 | 15.30 | Customization with increased protection rating | | | |

Resistant silicon coating, impervious to any mechanical stress; wipeable.

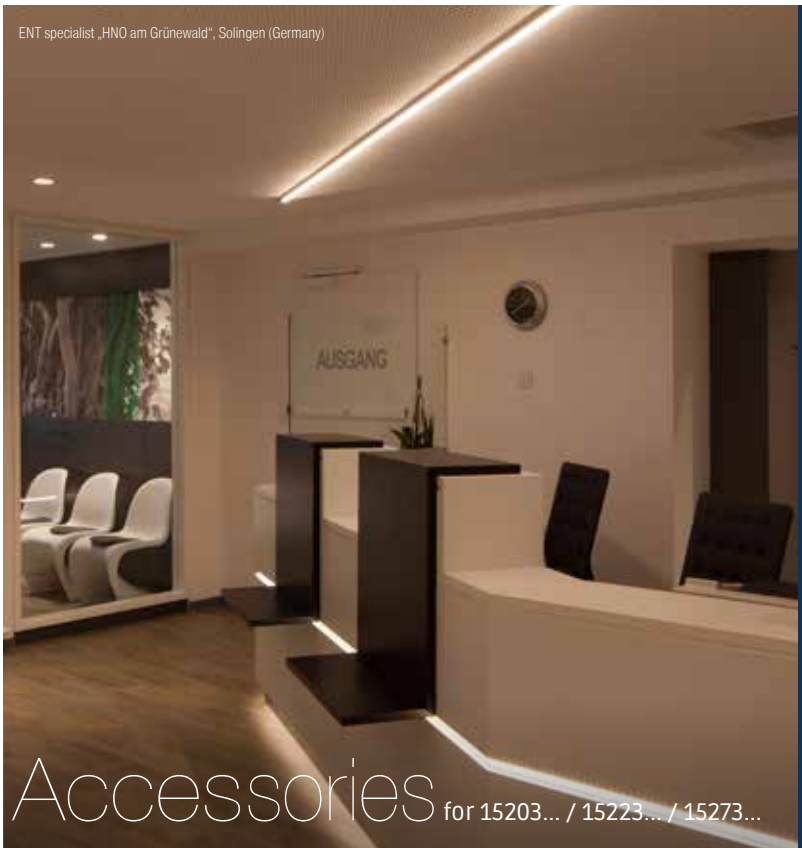
### IP67

| Article no./5 m | Price € | Article no./100 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 15273027 | 279.00 | 75273027 | 6.70 | 2700 K | about 712 lm | A | 12.7 x 5 mm |
| 15273003 | 279.00 | 75273003 | 6.70 | 3100 K | about 712 lm | A | 12.7 x 5 mm |
| 15273004 | 279.00 | 75273004 | 6.70 | 4100 K | about 759 lm | A | 12.7 x 5 mm |
| 15273005 | 279.00 | 75273005 | 6.70 | 6000 K | about 792 lm | A | 12.7 x 5 mm |
| | | 75999000 | 15.30 | Customization with increased protection rating | | | |

White, light-reflecting support profile with resistant silicon coating. Optimum protection against mechanical stress and moisture; wipeable.



Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.




ENT specialist „HNO am Grünewald“, Solingen (Germany)

# Accessories for 15203... / 15223... / 15273...

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## Fields of application

Basic or general lighting of rooms, architectural applications and areas in which a high level of illumination is required, such as indirect or direct lighting, illuminated ceilings, food industry lighting and many others.

## Driver

Starting on page 54, you can find appropriate drivers

## Controllers

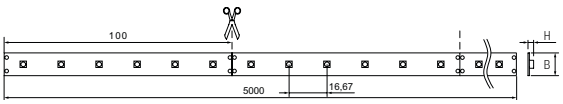
Starting on page 56, you can find controllers for all signal types

KNX | DALI | 1 - 10 V | DMX

# 15204...
## LED flexible strip 14.4 W/m

24V DC

IP00



## Specification

Flexible LED conductor strips fitted with 300x SMD 2835 LEDs; power: max. 72 W (14.4 W/m), beam angle: 120°, width: 10 mm, length: 5,000 mm, easily cut every 100 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends; length 350 mm each.

**To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 32)**.

**Electrical data**
Nominal voltage [V DC]: 24
Protection class: III
Max. efficiency [lm/W]: 83
Power input [W/m]: 14.4
Number of LEDs per metre. 60
Current [mA/Chip]: 60

**Mechanical data**
Separable length [mm]: 100
Short Pitch [mm]: 16.67
max. module length [mm]: 5,000

**Temperature data**
Ambient temperature [°C]:
-20 - +50

**Luminaire data**
Beam angle: 120°
CRI>85

IP00

| Article no./5 m | Price € | Article no./100 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 15204027 | 209.00 | 75204027 | 5.05 | 2700 K | about 1200 lm | A+ | 10 x 1.4 mm |
| 15204003 | 209.00 | 75204003 | 5.05 | 3100 K | about 1200 lm | A+ | 10 x 1.4 mm |
| 15204004 | 209.00 | 75204004 | 5.05 | 4100 K | about 1320 lm | A+ | 10 x 1.4 mm |
| 15204005 | 209.00 | 75204005 | 5.05 | 6000 K | about 1440 lm | A+ | 10 x 1.4 mm |
| | | 75998000 | 10.20 | Customization for protection class IP00 | | | |



Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

Country Inn Hoffmann, Arnsberg (Germany)

# Accessories for 15204...

## Fields of application

Basic or general lighting of rooms, architectural applications and areas in which a high level of illumination is required, such as indirect or direct lighting, illuminated ceilings, food industry lighting and many others.

## Driver

Starting on page 54, you can find appropriate drivers

## Controllers

Starting on page 56, you can find controllers for all signal types

KNX | DALI | 1 - 10 V | DMX

## APPLICABLE PROFILES

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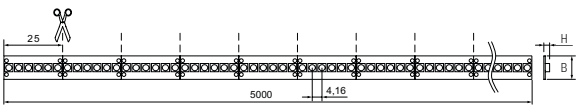
# 15205...
## LED flexible strip 19.2 W/m

24V DC

IP00



## Specification

Flexible LED conductor strips fitted with 1200x SMD 3528 LEDs; power: max. 96 W (19.2 W/m), beam angle: 120°, width: 10 mm, length: 5,000 mm, easily cut every 25 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends; length 350 mm each.

**To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 32)**.

**Electrical data**
Nominal voltage [V DC]: 24
Protection class: III
Max. efficiency [lm/W]: 75
Power input [W/m]: 19.2
Number of LEDs per metre. 240
Current [mA/Chip]: 20

**Mechanical data**
Separable length [mm]: 25
Short Pitch [mm]: 4.16
Modular power supply [mm]: one end 3,000 and both ends 5,000

**Temperature data**
Ambient temperature [°C]:
-20 - +50

**Luminaire data**
Beam angle: 120°
CRI>85

IP00

| Article no./5 m | Price € | Article no./25 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 15205027 | 298.00 | 75205027 | 1.80 | 2700 K | about 1440 lm | A | 10 x 2.4 mm |
| 15205003 | 298.00 | 75205003 | 1.80 | 3100 K | about 1440 lm | A | 10 x 2.4 mm |
| 15205004 | 298.00 | 75205004 | 1.80 | 4100 K | about 1440 lm | A | 10 x 2.4 mm |
| 15205005 | 298.00 | 75205005 | 1.80 | 6000 K | about 1440 lm | A | 10 x 2.4 mm |
| | | 75998000 | 10.20 | Customization for protection class IP00 | | | |

For a maximum modular length of 5,000 mm, the LED flex strips must be fed at both ends. For a power feed at one end, a maximum modular length of 3,000 mm must not be exceeded.



Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

Shopping Mall „Arcaden", Erlangen (Germany)

# Accessories for 15205...

## APPLICABLE PROFILES

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## Fields of application

Basic or general lighting of rooms, architectural applications and areas in which a high level of illumination is required, such as indirect or direct lighting, illuminated ceilings, food industry lighting and many others.

## Driver

Starting on page 54, you can find appropriate drivers

## Controllers

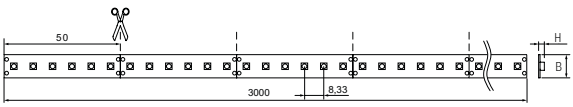
Starting on page 56, you can find controllers for all signal types

KNX | DALI | 1 - 10 V | DMX

# 15206...
## LED flexible strip 28.8 W/m

24V DC

IP00



## Specification

Flexible LED conductor strips fitted with 600x SMD 2835 LEDs; power: max. 144 W (28.8 W/m), beam angle: 120°, width: 10 mm, length: 3,000 mm, easily cut every 50 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends; length 350 mm each.

**To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 32)**.

**Electrical data**
Nominal voltage [V DC]: 24
Protection class: III
Max. efficiency [lm/W]: 100
Power input [W/m]: 28.8
Number of LEDs per metre. 120
Current [mA/Chip]: 60

**Mechanical data**
Separable length [mm]: 50
Short Pitch [mm]: 8.33
Maximum modular power supply [mm]: one end 3,000 and both ends 5,000

**Temperature data**
Ambient temperature [°C]:
-20 - +50

**Luminaire data**
Beam angle: 120°
CRI>85

IP00

| Article no./5 m | Price € | Article no./50 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 15206027 | 289.00 | 75206027 | 3.50 | 2700 K | about 2400 lm | A | 10 x 1.4 mm |
| 15206003 | 289.00 | 75206003 | 3.50 | 3100 K | about 2400 lm | A | 10 x 1.4 mm |
| 15206004 | 289.00 | 75206004 | 3.50 | 4100 K | about 2640 lm | A | 10 x 1.4 mm |
| 15206005 | 289.00 | 75206005 | 3.50 | 6000 K | about 2880 lm | A+ | 10 x 1.4 mm |
| | | 75998000 | 10.20 | Customization for protection class IP00 | | | |

For a maximum modular length of 5,000 mm, the LED flex strips must be fed at both ends. For a power feed at one end, a maximum modular length of 3,000 mm must not be exceeded.



Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

Sauna park Epe, Gronau (Germany)

# Accessories for 15206...

## APPLICABLE PROFILES

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## Fields of application

Basic or general lighting of rooms, architectural applications and areas in which a high level of illumination is required, such as indirect or direct lighting, illuminated ceilings, food industry lighting and many others.

## Driver

Starting on page 54, you can find appropriate drivers

## Controllers

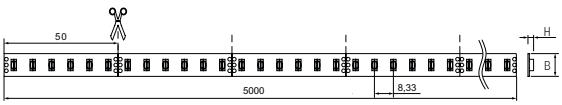
Starting on page 56, you can find controllers for all signal types

KNX | DALI | 1 - 10 V | DMX

# 15215004
## TunableWhite LED flexible strip 19.2 W/m

24V DC

IP00



## Specification

Flexible LED conductor strips fitted with 600x SMD 3527 LEDs, bi-colour double chip technology (DCT); power: max. 96 W (19.2 W/m), beam angle: 120°, width: 10 mm, length: 5,000 mm, easily cut every 50 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends, length 350 mm each.

**To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 32)**.

**Electrical data**
Nominal voltage [V DC]: 24
protection class: III
Power input [W/m]: 19.2
Number of LEDs per metre. 120
Current [mA/Chip]: 40
Control: negative (3-core wire)

**Mechanical data**
Separable length [mm]: 50
Short Pitch [mm]: 8.33
max. module length [mm]: 5,000

**Temperature data**
Ambient temperature [°C]:
-20 - +50

**Luminaire data**
Beam angle: 120°

IP00

| Article no./5 m | Price € | Article no./50mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 15215004 | 379.00 | 75215004 | 4.55 | 2700 K | about 700 lm | A | 10 x 2 mm |
| | | | | 5700 K | about 700 lm | | |
| | | 75998000 | 10.20 | Customization for protection class IP00 | | | |



Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

Culinary school of Johann Lafer, Guldental (Germany)

# Accessories for 15215004

## Fields of application

Changeable white light area using adjustment of colour temperature of the warm white and cool white channels for customised and efficient lighting of lighting coves, linear applications and backlighting, such as furniture, shelves, display cases, shadow gaps, illuminated ceilings and many others. Optimised fur use with Brumberg 2-channel or TunableWhite controls.

## Driver

Starting on page 54, you can find appropriate drivers

## Controllers

Starting on page 56, you can find controllers for all signal types

KNX | DALI | 1 - 10 V | DMX

## APPLICABLE PROFILES

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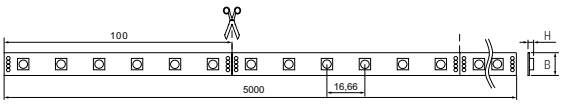
# 15203001 / 15223001 / 15273001
## LED flexible strip RGB 14.4 W/m

24V DC

IP00/IP62 IP67



## Specification

Flexible LED conductor strips fitted with 300x SMD 5050 RGB LEDs, multi-colour; power: max. 72 W (14.4 W/m), beam angle: 120°, width: 10-12.7 mm, length: 5,000 mm, easily cut every 100 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends; length 350 mm each.

**To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 32)**.
*Intended purpose: special product for a decorative application. Not appropriate for use in other applications.

**Electrical data**
Nominal voltage [V DC]: 24
protection class: III
Power input [W/m]: 14.4
Number of LEDs per metre. 60
Current [mA/Chip]: 60
Control: negative (4-core wire)

**Mechanical data**
Separable length [mm]: 100
Short Pitch [mm]: 16.66
max. module length [mm]: 5,000

**Temperature data**
Ambient temperature [°C]:
-20 - +50

**Luminaire data**
Beam angle: 120°
Light colour category RGB

### IP00

| Article no./5 m | Price € | Article no./100 mm | Price € | Light colour | Light flux/m | Dimensions [W x H]: |
|---|---|---|---|---|---|---|
| 15203001 | 198.00 | 75203001 | 4.75 | red | about 160 lm | 10 x 2.2 mm |
| | | | | green | about 430 lm | |
| | | | | blue | about 80 lm | |
| | | 75998000 | 10.20 | Customization for protection class IP00 | | |

### IP62

| Article no./5 m | Price € | Article no./100 mm | Price € | Light colour | Light flux/m | Dimensions [W x H]: |
|---|---|---|---|---|---|---|
| 15223001 | 249.00 | 75223001 | 6.00 | red | about 115 lm | 10 x 2.5 mm |
| | | | | green | about 309 lm | |
| | | | | blue | about 57 lm | |
| | | 75999000 | 15.30 | Customization with increased protection rating | | |

Resistant silicon coating, impervious to any mechanical stress; wipeable.

### IP67

| Article no./5 m | Price € | Article no./100 mm | Price € | Light colour | Light flux/m | Dimensions [W x H]: |
|---|---|---|---|---|---|---|
| 15273001 | 279.00 | 75273001 | 6.70 | red | about 105 lm | 12.7 x 5 mm |
| | | | | green | about 282 lm | |
| | | | | blue | about 52 lm | |
| | | 75999000 | 15.30 | Customization with increased protection rating | | |

White, light-reflecting support profile with resistant silicon coating. Optimum protection against mechanical stress and moisture; wipeable.



Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

Building management services „Natelberg", Rhauderfehn (Germany)

# Accessories for 15203001 / 15223001 / 15273001

## Fields of application

Individual colours or colour blending using the red, green and blue colour channels for decorative and accent lighting of lighting coves, linear applications and backlighting, such as furniture, shelves, display cases, shadow gaps and many others. Optimised fur use with Brumberg RGB controls.

## Driver

Starting on page 54, you can find appropriate drivers

## Controllers

Starting on page 56, you can find controllers for all signal types

KNX | DALI | 1 - 10 V | DMX

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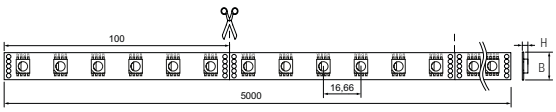
# 18513002 / 18562002
## LED flexible strip RGBW 19.2 W/m

24V DC

IP00/IP62



## Specification

Flexible LED conductor strips fitted with 300x SMD 5050 RGBW LEDs, multi-colour 4in1; power: max. 96 W (19.2 W/m), beam angle: 120°, width: 12 mm, length: 5,000 mm, easily cut every 100 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends; length 350 mm each.

**To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 32)**.
*Intended purpose: special product for a decorative application. Not appropriate for use in other applications.

**Electrical data**
Nominal voltage [V DC]: 24
protection class: III
Power input [W/m]: 19.2
Number of LEDs per metre. 60
Current [mA/Chip]: 60
Control: negative (5-core wire)

**Mechanical data**
Separable length [mm]: 100
Short Pitch [mm]: 16.66
max. module length [mm]: 5,000

**Temperature data**
Ambient temperature [°C]:
-20 - +50

**Luminaire data**
Beam angle: 120°
Light colour category RGBW

IP00

| Article no./5 m | Price € | Article no./100 mm | Price € | Light colour | Light flux/m | Dimensions [W x H]: |
|---|---|---|---|---|---|---|
| 18513002 | 398.00 | 75513002 | 9.60 | 4200 K | about 440 lm | 12 x 2.2 mm |
| | | | | 620-630 nm | about 125 lm | |
| | | | | 520-535 nm | about 380 lm | |
| | | | | 450-470 nm | about 90 lm | |
| | | 75998000 | 10.20 | Customization for protection class IP00 | | |

IP62

| Article no./5 m | Price € | Article no./100 mm | Price € | Light colour | Light flux/m | Dimensions [W x H]: |
|---|---|---|---|---|---|---|
| 18562002 | 449.00 | 75203001 | 10.80 | 4200 K | about 316 lm | 12 x 3 mm |
| | | | | 620-630 nm | about 90 lm | |
| | | | | 520-535 nm | about 273 lm | |
| | | | | 450-470 nm | about 64 lm | |
| | | 75999000 | 15.30 | Customization with increased protection rating | | |

Resistant silicon coating, impervious to any mechanical stress; wipeable.



Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

Event center „Zentralhallen", Hamm (Germany)

# Accessories for 18513002 / 18562002

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## Fields of application

White light area and colour blending using the red, green and blue colour channels for changeable and efficient lighting of lighting coves, linear applications and backlighting, such as furniture, shelves, display cases, shadow gaps, illuminated ceilings and many others. Optimised for used in the Brumberg vitaLED® 2.0 System

## Driver

Starting on page 54, you can find appropriate drivers

## Controllers

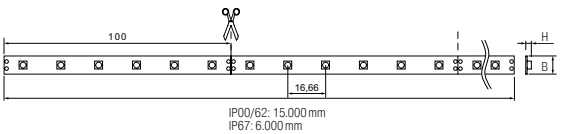
Starting on page 56, you can find controllers for all signal types

KNX | DALI | 1 - 10 V | DMX

# 19201... / 19221... / 19261...
## LED flexible strip 5 W/m

24V DC

IP00/IP62 IP67




## Specification

Flexible LED conductor strips fitted with 900x Philips 3014 LEDs, integrated constant current source; power: max. 75 W (5 W/m), beam angle: 120°, width: 10-12 mm, length: 15,000 mm, easily cut every 100 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends (tin-plated wire ends), length 300 mm.

**To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 32)**.

**Electrical data**
Nominal voltage [V DC]: 24
Protection class: III
Power input [W/m]: 5
Number of LEDs per metre. 60
Current [mA/Chip]: 20

**Mechanical data**
Separable length [mm]: 100
Short Pitch [mm]: 16.66
min. bending radius [mm]: 60
max. module length [mm]: 15,000

**Temperature data**
Ambient temperature [°C]:
-20 - +45

**Luminaire data**
Beam angle: 120°
CRI>80
SDCM: Step 3

### IP00

| Article no./15 m | Price € | Article no./100 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 19201927 | 628.90 | 76201927 | 5.05 | 2700 K | about 540 lm | A++ | 10 x 1.5 mm |
| 19201903 | 628.90 | 76201903 | 5.05 | 3000 K | about 540 lm | A++ | 10 x 1.5 mm |
| 19201904 | 628.90 | 76201904 | 5.05 | 4000 K | about 570 lm | A++ | 10 x 1.5 mm |
| 19202905 | 628.90 | 76201905 | 5.05 | 6500 K | about 570 lm | A++ | 10 x 1.5 mm |
| | | 75998000 | 10.20 | Customization for protection class IP00 | | | |

### IP62

| Article no./15 m | Price € | Article no./100 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 19221927 | 736.80 | 76221927 | 5.90 | 2700 K | about 432 lm | A+ | 10 x 2.8 mm |
| 19221903 | 736.80 | 76221903 | 5.90 | 3500 K | about 432 lm | A+ | 10 x 2.8 mm |
| 19221904 | 736.80 | 76221904 | 5.90 | 4000 K | about 456 lm | A+ | 10 x 2.8 mm |
| 19221905 | 736.80 | 76221905 | 5.90 | 5700 K | about 456 lm | A+ | 10 x 2.8 mm |
| | | 75999000 | 15.30 | Customization with increased protection rating | | | |

Resistant silicon coating, impervious to any mechanical stress; wipeable.

### IP67

| Article no./6 m | Price € | Article no./100 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 19261927 | 309.90 | 76261927 | 6.20 | 2700 K | about 405 lm | A+ | 12 x 4 mm |
| 19261903 | 309.90 | 76261903 | 6.20 | 3500 K | about 405 lm | A+ | 12 x 4 mm |
| 19261904 | 309.90 | 76261904 | 6.20 | 4100 K | about 427 lm | A+ | 12 x 4 mm |
| 19261905 | 309.90 | 76261905 | 6.20 | 5600 K | about 427 lm | A+ | 12 x 4 mm |
| | | 75999000 | 15.30 | Customization with increased protection rating | | | |

White, light-reflecting support profile with resistant silicon coating. Optimum protection against mechanical stress and moisture; wipeable.



Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

Private cinema, Reichenbach (Germany)

# Accessories for 19201... / 19221... / 19261...

## Fields of application

Decorative and accent lighting of lighting coves, linear applications and backlighting, such as furniture, shelves, display cases, shadow gaps and many others.

## Driver

Starting on page 54, you can find appropriate drivers

## Controllers

Starting on page 56, you can find controllers for all signal types

KNX | DALI | 1 - 10 V | DMX

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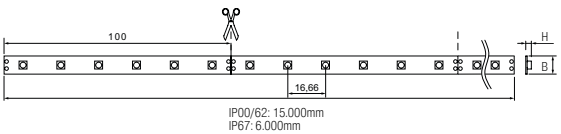
# to 19202... / 19222... / 19262...
## LED flexible strip 10 W/m

24V DC

IP00/IP62 IP67




## Specification

Flexible LED conductor strips fitted with 900x Philips 3014 LEDs, integrated constant current source; power: max. 150 W (10 W/m), beam angle: 120°, width: 10-12 mm, length: 15,000 mm, easily cut every 100 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends (tin-plated wire ends), length 300 mm.

**To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 32)**.

**Electrical data**
Nominal voltage [V DC]: 24
Protection class: III
Power input [W/m]: 10
Number of LEDs per metre. 60
Current [mA/Chip]: 40

**Mechanical data**
Separable length [mm]: 100
Short Pitch [mm]: 16.66
min. bending radius [mm]: 60
max. module length [mm]: 15,000

**Temperature data**
Ambient temperature [°C]:
-20 - +45

**Luminaire data**
Beam angle: 120°
CRI>80
SDCM: Step 3

### IP00

| Article no./15 m | Price € | Article no./100 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 19202927 | 649.00 | 76202927 | 5.20 | 2700 K | about 1080 lm | A+ | 10 x 1.5 mm |
| 19202903 | 649.00 | 76202903 | 5.20 | 3000 K | about 1080 lm | A+ | 10 x 1.5 mm |
| 19202904 | 649.00 | 76202904 | 5.20 | 4000 K | about 1140 lm | A++ | 10 x 1.5 mm |
| 19202905 | 649.00 | 76202905 | 5.20 | 6500 K | about 1140 lm | A++ | 10 x 1.5 mm |
| | | 75998000 | 10.20 | Customization for protection class IP00 | | | |

### IP62

| Article no./15 m | Price € | Article no./100 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 19222927 | 749.00 | 76222927 | 6.00 | 2700 K | about 864 lm | A+ | 10 x 2.8 mm |
| 19222903 | 749.00 | 76222903 | 6.00 | 3500 K | about 864 lm | A+ | 10 x 2.8 mm |
| 19222904 | 749.00 | 76222904 | 6.00 | 4000 K | about 912 lm | A+ | 10 x 2.8 mm |
| 19221905 | 749.00 | 76222905 | 6.00 | 5700 K | about 912 lm | A+ | 10 x 2.8 mm |
| | | 75999000 | 15.30 | Customization with increased protection rating | | | |

Resistant silicon coating, impervious to any mechanical stress; wipeable.

### IP67

| Article no./6 m | Price € | Article no./100 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 19262927 | 319.00 | 76262927 | 6.40 | 2700 K | about 810 lm | A+ | 12 x 4 mm |
| 19262903 | 319.00 | 76262903 | 6.40 | 3500 K | about 810 lm | A+ | 12 x 4 mm |
| 19262904 | 319.00 | 76262904 | 6.40 | 4100 K | about 855 lm | A+ | 12 x 4 mm |
| 19262905 | 319.00 | 76262905 | 6.40 | 5600 K | about 855 lm | A+ | 12 x 4 mm |
| | | 75999000 | 15.30 | Customization with increased protection rating | | | |

White, light-reflecting support profile with resistant silicon coating. Optimum protection against mechanical stress and moisture; wipeable.



Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

Private home, Going (Austria)

# Accessories for 19202... / 19222... / 19262...

## Fields of application

Technical and efficient lighting of lighting coves, linear applications and backlighting, such as furniture, shelves, display cases, shadow gaps and many others.

## Driver

Starting on page 54, you can find appropriate drivers

## Controllers

Starting on page 56, you can find controllers for all signal types

KNX | DALI | 1 - 10 V | DMX

## APPLICABLE PROFILES

P. 34
IP00 | IP62

P. 35
IP00 | IP62

P. 36
IP00 | IP62

P. 37
IP00 | IP62 | IP67

P. 38
IP00 | IP62

P. 39
IP00 | IP62 | IP67

P. 40
IP00 | IP62


P. 41
IP00 | IP62

P. 42
IP00 | IP62

P. 43
IP00 | IP62

P. 44
IP00 | IP62

P. 45
IP00 | IP62

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IP00 | IP62

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IP00 | IP62 | IP67

P. 48
IP00


P. 48
IP00 | IP62

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IP00 | IP62 | IP67

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IP00

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IP00

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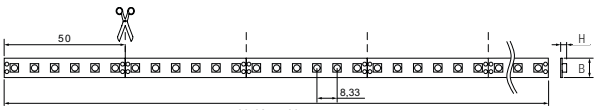
IP00 | IP62

P. 53
IP00 | IP62

# 19203... / 19223... / 19263...
## LED flexible strip 20 W/m

IP00/IP62 IP67




## Specification

Flexible LED conductor strips fitted with 900x Philips 3014 LEDs, integrated constant current source; power: max. 150 W (20 W/m), beam angle: 120°, width: 10-12 mm, length: 7,500 mm, easily cut every 50 mm, two-sided 3M adhesive tape included in delivery to aid installation. Incl. connector cables at both ends (tin-plated wire ends), length 300 mm.

**To dissipate heat, light must be mounted on aluminium profiles. (Starting on p. 32)**.

**Electrical data**
Nominal voltage [V DC]: 24
Protection class: III
Power input [W/m]: 20
Number of LEDs per metre. 120
Current [mA/Chip]: 40

**Mechanical data**
Separable length [mm]: 50
Short Pitch [mm]: 8.33
min. bending radius [mm]: 60
max. module length [mm]: 7,500

**Temperature data**
Ambient temperature [°C]:
-20 - +45

**Luminaire data**
Beam angle: 120°
CRI>80
SDCM: Step 3

### IP00

| Article no./7.5 m | Price € | Article no./50 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 19203927 | 589.00 | 76203927 | 4.75 | 2700 K | about 2040 lm | A+ | 10 x 1.5 mm |
| 19203903 | 589.00 | 76203903 | 4.75 | 3000 K | about 2040 lm | A+ | 10 x 1.5 mm |
| 19203904 | 589.00 | 76203904 | 4.75 | 4000 K | about 2160 lm | A+ | 10 x 1.5 mm |
| 19203905 | 589.00 | 76203905 | 4.75 | 6500 K | about 2160 lm | A+ | 10 x 1.5 mm |
| | | 75998000 | 10.20 | Customization for protection class IP00 | | | |

### IP62

| Article no./7.5 m | Price € | Article no./50 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 19223927 | 639.00 | 76223927 | 5.15 | 2700 K | about 1632 lm | A | 10 x 2.8 mm |
| 19223903 | 639.00 | 76223903 | 5.15 | 3500 K | about 1632 lm | A | 10 x 2.8 mm |
| 19223904 | 639.00 | 76223904 | 5.15 | 4000 K | about 1728 lm | A | 10 x 2.8 mm |
| 19223905 | 639.00 | 76223905 | 5.15 | 5700 K | about 1728 lm | A | 10 x 2.8 mm |
| | | 75999000 | 15.30 | Customization with increased protection rating | | | |

Resistant silicon coating, impervious to any mechanical stress; wipeable.

### IP67

| Article no./6 m | Price € | Article no./50 mm | Price € | Colour temperature | Light flux/m | EEC | Dimensions [W x H] |
|---|---|---|---|---|---|---|---|
| 19263927 | 529.00 | 76263927 | 5.30 | 2700 K | about 1530 lm | A | 12 x 4 mm |
| 19263903 | 529.00 | 76263903 | 5.30 | 3500 K | about 1530 lm | A | 12 x 4 mm |
| 19263904 | 529.00 | 76263904 | 5.30 | 4100 K | about 1620 lm | A | 12 x 4 mm |
| 19263905 | 529.00 | 76263905 | 5.30 | 5600 K | about 1620 lm | A | 12 x 4 mm |
| | | 75999000 | 15.30 | Customization with increased protection rating | | | |

White, light-reflecting support profile with resistant silicon coating. Optimum protection against mechanical stress and moisture; wipeable.



Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

Pressure die-casting technology services „HDO“, Paderborn (Germany)

# Accessories for 19203... / 19223... / 19263...

## APPLICABLE PROFILES

P. 34
IP00 | IP62

P. 35
IP00 | IP62

P. 36
IP00 | IP62

P. 37
IP00 | IP62 | IP67

P. 38
IP00 | IP62

P. 39
IP00 | IP62 | IP67

P. 40
IP00 | IP62

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IP00 | IP62

P. 42
IP00 | IP62

P. 43
IP00 | IP62

P. 46
IP00 | IP62

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IP00 | IP62 | IP67

P. 50
IP00

P. 51
IP00

## Fields of application

Basic or general lighting of rooms, architectural applications and areas in which a high level of illumination is required, such as indirect or direct lighting, illuminated ceilings, food industry lighting and many others.

## Driver

Starting on page 54, you can find appropriate drivers

## Controllers

Starting on page 56, you can find controllers for all signal types

KNX | DALI | 1 - 10 V | DMX

# QualityFlex® Quick finder

## Which profile goes with which LED flex strip?

| | Artikel-Nr. | Seite | 15761... 34 | 15751... 35 | 15741... 36 | 15791... 37 | 15841... 38 | 15871... 39 | 15781... 40 | 15881... 41 | 15701... 42 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **IP00** | | | | | | | | | | | |
| 4.8 W/m | 15201... | 8 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | 1 | 1 |
| 9.6 W/m | 15202... | 10 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | 1 | 1 |
| 14.4 W/m | 15203... | 12 / 22 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | 1 | 1 |
| 14.4 W/m | 15204... | 14 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | 1 | 1 |
| 19.2 W/m | 15205... | 16 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 |
| 28.8 W/m | 15206... | 18 | – | – | – | 1 | 1 | 1 | – | – | – |
| 19.2 W/m | 15215... | 20 | 1 | 1 | 1 | 2 | 2 | 2 | 1 | 1 | 1 |
| 19.2 W/m | 18513... | 24 | 1 | 1 | 1 | 2 | 1 | 2 | 1 | 1 | 1 |
| 5 W/m | 19201... | 26 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 W/m | 19202... | 28 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 W/m | 19203... | 30 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **IP62** | | | | | | | | | | | |
| 4.8 W/m | 15221... | 8 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | 1 | 1 |
| 9.6 W/m | 15222... | 10 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | 1 | 1 |
| 14.4 W/m | 15223... | 12 / 22 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | 1 | 1 |
| 19.2 W/m | 18562... | 24 | 1 | 1 | 1 | 2 | 2 | 3 | 1 | 1 | 1 |
| 5 W/m | 19221... | 26 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 10 W/m | 19222... | 28 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 20 W/m | 19223... | 30 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **IP67** | | | | | | | | | | | |
| 4.8 W/m | 15271... | 8 | 1 | – | 1 | 1 | – | 2 | 1 | – | – |
| 9.6 W/m | 15272... | 10 | 1 | – | 1 | 1 | – | 2 | 1 | – | – |
| 14.4 W/m | 15273... | 12 / 22 | – | – | – | 1 | – | 2 | – | – | – |
| 5 W/m | 19261... | 26 | – | – | – | 1 | – | 1 | – | – | – |
| 10 W/m | 19262... | 28 | – | – | – | 1 | – | 1 | – | – | – |
| 20 W/m | 19263... | 30 | – | – | – | 1 | – | 1 | – | – | – |

[–] The conductor strip and the profile are not compatible.
[2] A maximum of two conductor strips can be installed in the profile.
[1] A conductor strip can be installed in the profile.
[3] A maximum of three conductor strips can be installed in the profile.



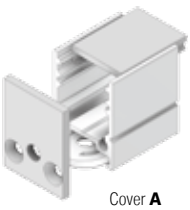
Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

| 15911... 43 | 15851... 44 | 15861... 45 | 15541... 46 | 15031... 47 | 15915... 48 | 15711... 48 | 15971... 49 | 15941... 50 | 15951... 51 | 15731... 52 | 15831... 53 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| 1 | – | – | 1 | – | – | 1 | 2 | 1 | 1 | 1 | – |
| – | – | – | – | – | – | – | 1 | – | – | – | – |
| 1 | 1 | 1 | 1 | 1 | – | 1 | 2 | – | – | – | – |
| 1 | – | – | 1 | – | – | – | 2 | – | – | 1 | – |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| 1 | – | – | 1 | – | – | – | 1 | 1 | 1 | – | – |

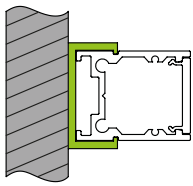
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| 1 | – | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 |
| 1 | – | – | 1 | – | – | – | 2 | – | – | 1 | – |
| 1 | 1 | 1 | 1 | 1 | – | 1 | 1 | – | – | 1 | 1 |
| 1 | 1 | 1 | 1 | 1 | – | 1 | 1 | – | – | 1 | 1 |
| 1 | – | – | 1 | – | – | – | 1 | – | – | – | – |

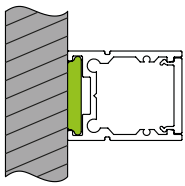
| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| – | – | – | 1 | 1 | – | – | 1 | – | – | 1 | – |
| – | – | – | 1 | 1 | – | – | 1 | – | – | 1 | – |
| – | – | – | – | 1 | – | – | 1 | – | – | – | – |
| – | – | – | – | 1 | – | – | 1 | – | – | – | – |
| – | – | – | – | 1 | – | – | 1 | – | – | – | – |
| – | – | – | – | – | – | – | 1 | – | – | – | – |

## 15761... / 15762
## Aluminium profile

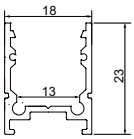

Cover **A**

Cover **B**





The compatibility of the profiles and strips see pages 32-33.




### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15761260 | 1,000 mm | silver | 16.30 |
| 15762260 | 2,000 mm | silver | 29.30 |

### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75761260 | Aluminium profile 100 mm | 2.00 |
| 75991000 | Customization of the aluminium profile | 5.10 |

100 mm segments
See ordering details for customization on pp. 60-61

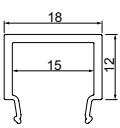
## Accessories

### Covers

A

A

B




**Profile covers:** plastic (PMMA), UV stabilized

#### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15734000 | 1,000 mm | transparent | 14.40 |
| 15735000 | 2,000 mm | transparent | 28.50 |

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15765070 | 1,000 mm | opal | 14.40 |
| 15766070 | 2,000 mm | opal | 28.50 |

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15730070 | 1,000 mm | opal | 17.30 |
| 15731070 | 2,000 mm | opal | 34.50 |

#### Customization

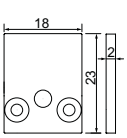
| Article no. | Customization | Price € |
|---|---|---|
| 75734000 | Covers 100 mm | 1.75 |
| 75992000 | Customization of the cover | 4.70 |

| Article no. | Customization | Price € |
|---|---|---|
| 75765070 | Covers 100 mm | 1.75 |
| 75992000 | Customization of the cover | 4.70 |

| Article no. | Customization | Price € |
|---|---|---|
| 75730070 | Covers 100 mm | 2.10 |
| 75992000 | Customization of the cover | 4.70 |

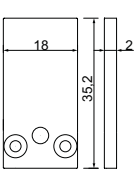
100 mm segments
See ordering details for customization on pp. 60-61

### End pieces to cover **A**



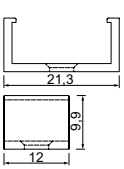

| Article no. | | Colour | Price € |
|---|---|---|---|
| 15767000 | with cable-hole | silver | 2.90 |
| 15768000 | w/o cable-hole | silver | 2.90 |

### End pieces to cover **B**




| Article no. | | Colour | Price € |
|---|---|---|---|
| 15773000 | with cable-hole | silver | 2.90 |
| 15774000 | w/o cable-hole | silver | 2.90 |

### Mounting clip

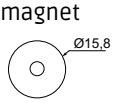



| Article no. | Colour | Price € |
|---|---|---|
| 15771000 | silver | 2.80 |

### Mounting ring

| Article no. | Colour | Price € |
|---|---|---|
| 15769000 | silver | 2.80 |

### Mounting magnet

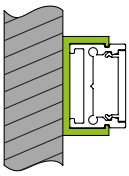


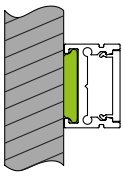

| Article no. | Colour | Price € |
|---|---|---|
| 15770000 | silver | 6.30 |



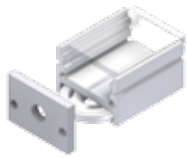
Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

## 15751... / 15752...
## Aluminium profile



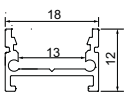


Cover **B**



Cover **A**

The compatibility of the profiles and strips see pages 32-33.




### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15751260 | 1,000 mm | silver | 14.90 |
| 15752260 | 2,000 mm | silver | 26.90 |

### Customization

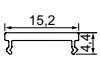
| Article no. | Customization | Price € |
|---|---|---|
| 75751260 | Aluminium profile 100 mm | 1.80 |
| 75991000 | Customization of the aluminium profile | 5.10 |

100 mm segments
See ordering details for customization on pp. 60-61

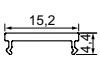
## Accessories

### Covers

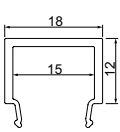
A




A




B




**Profile covers** / plastic cover, PMMA, UV stabilized

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15734000 | 1,000 mm | transparent | 14.40 |
| 15735000 | 2,000 mm | transparent | 28.50 |

| Article no. | Customization | Price € |
|---|---|---|
| 75734000 | Covers 100 mm | 1.75 |
| 75992000 | Customization of the cover | 4.70 |

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15765070 | 1,000 mm | opal | 14.40 |
| 15766070 | 2,000 mm | opal | 28.50 |

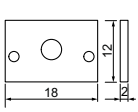
| Article no. | Customization | Price € |
|---|---|---|
| 75765070 | Covers 100 mm | 1.75 |
| 75992000 | Customization of the cover | 4.70 |

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15730070 | 1,000 mm | opal | 17.30 |
| 15731070 | 2,000 mm | opal | 34.50 |

| Article no. | Customization | Price € |
|---|---|---|
| 75730070 | Covers 100 mm | 2.10 |
| 75992000 | Customization of the cover | 4.70 |

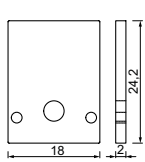
100 mm segments
See ordering details for customization on pp. 60-61

### End pieces to cover **A**



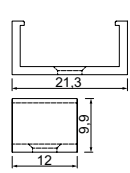

| Article no. | | Colour | Price € |
|---|---|---|---|
| 15757000 | with cable-hole | silver | 2.90 |
| 15758000 | w/o cable-hole | silver | 2.90 |

### End pieces to cover **B**



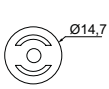

| Article no. | | Colour | Price € |
|---|---|---|---|
| 15744000 | with cable-hole | silver | 2.90 |
| 15745000 | w/o cable-hole | silver | 2.90 |

### Mounting clip



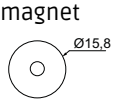

| Article no. | Colour | Price € |
|---|---|---|
| 15771000 | silver | 2.80 |

### Mounting ring



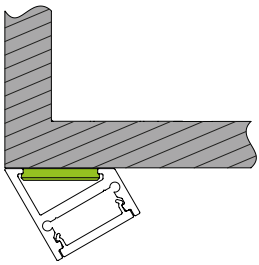

| Article no. | Colour | Price € |
|---|---|---|
| 15769000 | silver | 2.80 |

### Mounting magnet

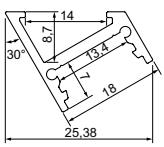



| Article no. | Colour | Price € |
|---|---|---|
| 15770000 | silver | 6.30 |

## 15741... / 15742...
## Aluminium profile



The compatibility of the profiles and strips see pages 32-33.




### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15741260 | 1,000 mm | silver | 17.50 |
| 15742260 | 2,000 mm | silver | 31.90 |

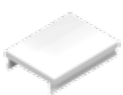
### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75741260 | Aluminium profile 100 mm | 2.10 |
| 75991000 | Customization of the aluminium profile | 5.10 |

100 mm segments
See ordering details for customization on pp. 60-61

## Accessories

### Covers



**Profile covers:** plastic (PMMA), UV stabilized

#### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15734000 | 1,000 mm | transparent | 14.40 |
| 15735000 | 2,000 mm | transparent | 28.50 |

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15765070 | 1,000 mm | opal | 14.40 |
| 15766070 | 2,000 mm | opal | 28.50 |

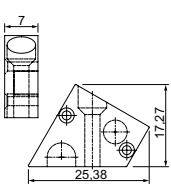
#### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75734000 | Covers 100 mm | 1.75 |
| 75992000 | Customization of the cover | 4.70 |

| Article no. | Customization | Price € |
|---|---|---|
| 75765070 | Covers 100 mm | 1.75 |
| 75992000 | Customization of the cover | 4.70 |

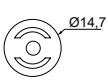
100 mm segments
See ordering details for customization on pp. 60-61

### End caps



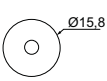

| Article no. | | Colour | Price € |
|---|---|---|---|
| 15738000 | left | silver | 7.90 |
| 15739000 | right | silver | 7.90 |

### Mounting ring




| Article no. | Colour | Price € |
|---|---|---|
| 15769000 | silver | 2.80 |

### Mounting magnet

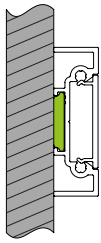


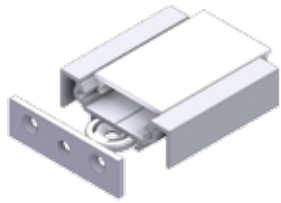

| Article no. | Colour | Price € |
|---|---|---|
| 15770000 | silver | 6.30 |



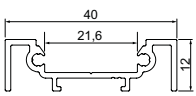
Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

## 15791... / 15792...
## Aluminium profile





The compatibility of the profiles and strips see pages 32-33.




### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15791260 | 1,000 mm | silver | 23.50 |
| 15792260 | 2,000 mm | silver | 43.50 |

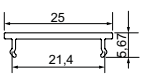
### Customization

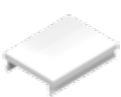
| Article no. | Customization | Price € |
|---|---|---|
| 75791260 | Aluminium profile 100 mm | 2.85 |
| 75991000 | Customization of the aluminium profile | 5.10 |

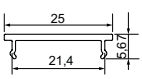
100 mm segments
See ordering details for customization on pp. 60-61

## Accessories

### Covers






### Finished lengths

**Profile covers** / plastic cover, PC, UV stabilized

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15741000 | 1,000 mm | transparent | 20.00 |
| 15742000 | 2,000 mm | transparent | 39.90 |

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15714070 | 1,000 mm | opal | 20.00 |
| 15715070 | 2,000 mm | opal | 39.90 |

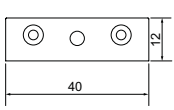
### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75741000 | Covers 100 mm | 2.40 |
| 75992000 | Customization of the cover | 4.70 |

| Article no. | Customization | Price € |
|---|---|---|
| 75714070 | Covers 100 mm | 2.40 |
| 75992000 | Customization of the cover | 4.70 |

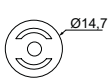
100 mm segments
See ordering details for customization on pp. 60-61

### End caps



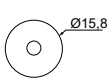

| Article no. | | Colour | Price € |
|---|---|---|---|
| 15736000 | with cable-hole | silver | 3.90 |
| 15737000 | w/o cable-hole | silver | 3.90 |

### Mounting ring



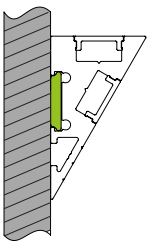

| Article no. | Colour | Price € |
|---|---|---|
| 15769000 | silver | 2.80 |

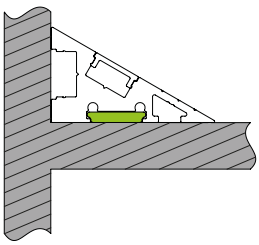
### Mounting magnet



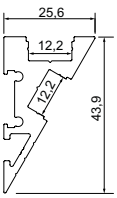

| Article no. | Colour | Price € |
|---|---|---|
| 15770000 | silver | 6.30 |

## 15841... / 15842...
## Aluminium profile





Compatibility of the profiles and strips see pages 32-33.




### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15841260 | 1,000 mm | silver | 38.50 |
| 15842260 | 2,000 mm | silver | 73.90 |

### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75841260 | Aluminium profile 100 mm | 4.65 |
| 75991000 | Customization of the aluminium profile | 5.10 |

100 mm segments
See ordering details for customization on pp. 60-61

## Accessories

### Covers

#### Finished lengths

**Profile covers:** Plastic (PC), UV stabilized

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15807000 | 1,000 mm | transparent | 13.50 |
| 15808000 | 2,000 mm | transparent | 27.30 |

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15809070 | 1,000 mm | opal | 13.50 |
| 15810070 | 2,000 mm | opal | 27.30 |

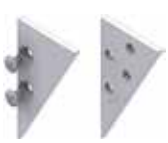
#### Customization

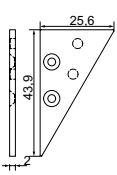
| Article no. | Customization | Price € |
|---|---|---|
| 75807000 | Covers 100 mm | 1.65 |
| 75992000 | Customization of the cover | 4.70 |

| Article no. | Customization | Price € |
|---|---|---|
| 75809070 | Covers 100 mm | 1.65 |
| 75992000 | Customization of the cover | 4.70 |

100 mm segments
See ordering details for customization on pp. 60-61

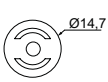
### End caps





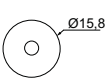

| Article no. | | Colour | Price € |
|---|---|---|---|
| 15867000 | left | silver | 5.20 |
| 15868000 | right | silver | 5.20 |

### Mounting ring




| Article no. | Colour | Price € |
|---|---|---|
| 15769000 | silver | 2.80 |

### Mounting magnet

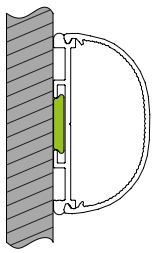



| Article no. | Colour | Price € |
|---|---|---|
| 15770000 | silver | 6.30 |

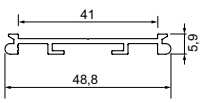


Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

## 15871... / 15872...
## Aluminium profile



Compatibility of the profiles and strips
see pages 32-33.




### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15871260 | 1,000 mm | silver | 17.50 |
| 15872260 | 2,000 mm | silver | 32.00 |

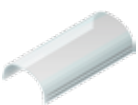
### Customization

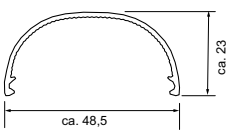
| Article no. | Customization | Price € |
|---|---|---|
| 75871260 | Aluminium profile 100 mm | 2.10 |
| 75991000 | Customization of the aluminium profile | 5.10 |

100 mm segments
See ordering details for customization on pp. 60-61

## accessories

### Covers





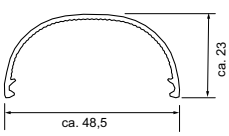

### Finished lengths

**Profile covers:** Plastic (PC), UV stabilized

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15822000 | 1,000 mm | transparent | 22.90 |
| 15823000 | 2,000 mm | transparent | 45.90 |

### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75822000 | Covers 100 mm | 2.75 |
| 75992000 | Customization of the cover | 4.70 |

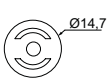



| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15824070 | 1,000 mm | opal | 22.90 |
| 15825070 | 2,000 mm | opal | 45.90 |

| Article no. | Customization | Price € |
|---|---|---|
| 75824070 | Covers 100 mm | 2.75 |
| 75992000 | Customization of the cover | 4.70 |

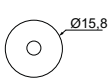
100 mm segments
See ordering details for customization on pp. 60-61

### Mounting ring



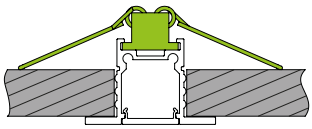

| Article no. | Colour | Price € |
|---|---|---|
| 15769000 | silver | 2.80 |

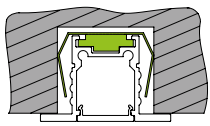
### Mounting magnet



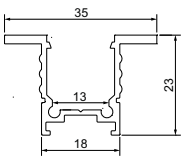

| Article no. | Colour | Price € |
|---|---|---|
| 15770000 | silver | 6.30 |

## 15781... / 15782
## Aluminium profile





The compatibility of the profiles and strips see pages 32-33.




### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15781260 | 1,000 mm | silver | 29.90 |
| 15782260 | 2,000 mm | silver | 58.00 |

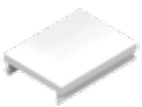
### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75781260 | Aluminium profile 100 mm | 3.60 |
| 75991000 | Customization of the aluminium profile | 5.10 |

100 mm segments
See ordering details for customization on pp. 60-61

## Accessories

### Covers



### Finished lengths

**Profile covers** / Plastic cover PMMA, UV stabilized

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15734000 | 1,000 mm | transparent | 14.40 |
| 15735000 | 2,000 mm | transparent | 28.50 |

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15765070 | 1,000 mm | opal | 14.40 |
| 15766070 | 2,000 mm | opal | 28.50 |

### Customization

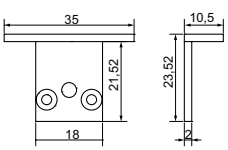
| Article no. | Customization | Price € |
|---|---|---|
| 75734000 | Covers 100 mm | 1.75 |
| 75992000 | Customization of the cover | 4.70 |

| Article no. | Customization | Price € |
|---|---|---|
| 75765070 | Covers 100 mm | 1.75 |
| 75992000 | Customization of the cover | 4.70 |

100 mm segments
See ordering details for customization on pp. 60-61

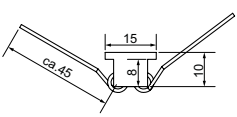
### End caps

| Article no. | | Colour | Price € |
|---|---|---|---|
| 15786260 | with cable-hole | silver | 15.50 |
| 15787260 | w/o cable-hole | silver | 15.50 |

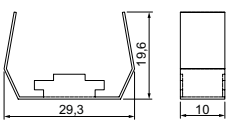



### Profile spring clip

| Article no. | Material | Price € |
|---|---|---|
| 15789000 | aluminium/ spring steel | 13.50 |




### Fixation clamp

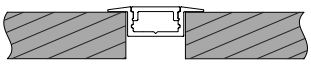


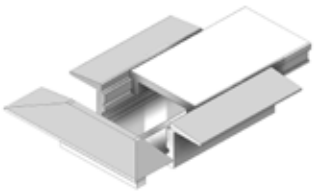

| Article no. | Colour | Price € |
|---|---|---|
| 15788000 | spring steel | 7.90 |



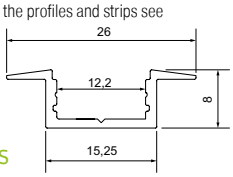
Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

## 15881... / 15882...
## Aluminium profile





The compatibility of the profiles and strips see pages 32-33.




### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15881260 | 1,000 mm | silver | 19.90 |
| 15882260 | 2,000 mm | silver | 36.50 |

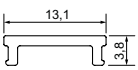
### Customization

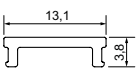
| Article no. | Customization | Price € |
|---|---|---|
| 75881260 | Aluminium profile 100 mm | 2.40 |
| 75991000 | Customization of the aluminium profile | 5.10 |

100 mm segments
See ordering details for customization on pp. 60-61

## Accessories

### Covers






### Finished lengths

**Profile covers:** plastic (PMMA), UV stabilized

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15807000 | 1,000 mm | transparent | 13.50 |
| 15808000 | 2,000 mm | transparent | 27.30 |

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15809070 | 1,000 mm | opal | 13.50 |
| 15810070 | 2,000 mm | opal | 27.30 |

### Customization

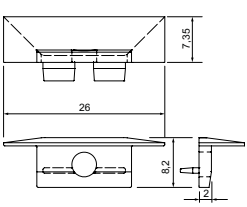
| Article no. | Customization | Price € |
|---|---|---|
| 75807000 | Covers 100 mm | 1.65 |
| 75992000 | Customization of the cover | 4.70 |

| Article no. | Customization | Price € |
|---|---|---|
| 75809070 | Covers 100 mm | 1.65 |
| 75992000 | Customization of the cover | 4.70 |

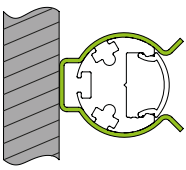
100 mm segments
See ordering details for customization on pp. 60-61

### End cap

| Article no. | | Colour | Price € |
|---|---|---|---|
| 15816000 | with cable-hole | silver | 6.50 |
| 15817000 | w/o cable-hole | silver | 6.50 |



## 15701... / 15702...
## Aluminium profile



### Finished lengths

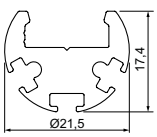
| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15701260 | 1,000 mm | silver | 21.30 |
| 15702260 | 2,000 mm | silver | 39.30 |

### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75701260 | Aluminium profile 100 mm | 2.60 |
| 75991000 | Customization of the aluminium profile | 5.10 |

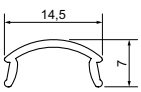
100 mm segments
See ordering details for customization on pp. 60-61

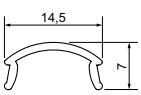
Compatibility of the profiles and strips
see pages 32-33.




## Accessories

### Covers






#### Finished lengths

**Profile covers:** Plastic (PC), UV stabilized

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15704000 | 1,000 mm | transparent | 12.80 |
| 15705000 | 2,000 mm | transparent | 25.50 |

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15704070 | 1,000 mm | opal | 12.80 |
| 15705070 | 2,000 mm | opal | 25.50 |

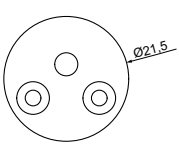
#### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75704000 | Covers 100 mm | 1.55 |
| 75992000 | Customization of the cover | 4.70 |

| Article no. | Customization | Price € |
|---|---|---|
| 75704070 | Covers 100 mm | 1.55 |
| 75992000 | Customization of the cover | 4.70 |

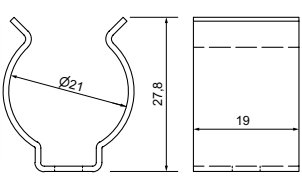
100 mm segments
See ordering details for customization on pp. 60-61

### End caps




| Article no. | | Colour | Price € |
|---|---|---|---|
| 15707260 | with cable-hole | silver | 6.40 |
| 15708260 | w/o cable-hole | silver | 6.40 |

### Mounting ring



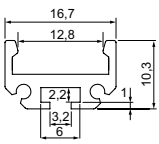

| Article no. | Material | Price € |
|---|---|---|
| 15709260 | spring steel | 4.60 |



Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

## 15911... / 15912...
## Aluminium profile

Compatibility of the profiles and strips
see pages 32-33.




### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15911260 | 1,000 mm | transparent | 15.90 |
| 15912260 | 2,000 mm | transparent | 28.50 |

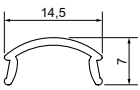
### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75911260 | Aluminium profile 100 mm | 1.90 |
| 75991000 | Customization of the aluminium profile | 5.10 |

100 mm segments
See ordering details for customization on pp. 60-61

## Accessories

### Covers



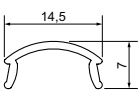

**Profile covers:** Plastic (PC), UV stabilized

### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15704000 | 1,000 mm | transparent | 12.80 |
| 15705000 | 2,000 mm | transparent | 25.50 |

### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75704000 | Covers 100 mm | 1.55 |
| 75992000 | Customization of the cover | 4.70 |




| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15704070 | 1,000 mm | opal | 12.80 |
| 15705070 | 2,000 mm | opal | 25.50 |

| Article no. | Customization | Price € |
|---|---|---|
| 75704070 | Covers 100 mm | 1.55 |
| 75992000 | Customization of the cover | 4.70 |

100 mm segments
See ordering details for customization on pp. 60-61

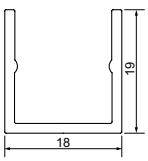
Evangelical free church in Lackhausen, Wesel (Germany)

## 15851... / 15852...
## Aluminium profile

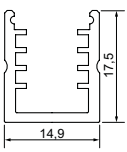
Aluminium profile **A**

Plastic profile **B**

Compatibility of the profiles and strips see pages 32-33.




Aluminium profile **A**




Plastic profile **B**

### Finished lengths

**A**

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15851260 | 1,000 mm | silver | 16.00 |
| 15852260 | 2,000 mm | silver | 29.00 |

**B**

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15880070 | 1,000 mm | opal | 16.00 |
| 15881070 | 2,000 mm | opal | 32.00 |

### Customization

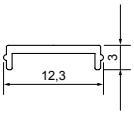
| Article no. | Customization | Price € |
|---|---|---|
| 75851260 | Aluminium profile 100 mm | 1.95 |
| 75991000 | Customization of the aluminium profile | 5.10 |

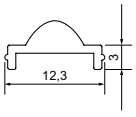
| Article no. | Customization | Price € |
|---|---|---|
| 75880000 | Aluminium profile 100 mm | 1.95 |
| 75991000 | Customization of the aluminium profile | 5.10 |

100 mm segments
See ordering details for customization on pp. 60-61

## Accessories

### Covers






### Finished lengths

**Profile covers:** Plastic (PC), UV stabilized

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15882000 | 1,000 mm | transparent | 11.00 |
| 15883000 | 2,000 mm | transparent | 22.00 |

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15889000 | 1,000 mm | transparent | 15.50 |
| 15890000 | 2,000 mm | transparent | 31.50 |

Beam angle 30°

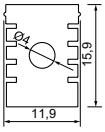
### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75882000 | Covers 100 mm | 1.35 |
| 75992000 | Customization of the cover | 4.70 |

| Article no. | Customization | Price € |
|---|---|---|
| 75889000 | Covers 100 mm | 1.90 |
| 75992000 | Customization of the cover | 4.70 |

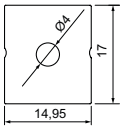
100 mm segments
See ordering details for customization on pp. 60-61

### End caps (plastic)




| Article no. | | Colour | Price € |
|---|---|---|---|
| 15893000 | with cable-hole | opal | 2.90 |
| 15894000 | w/o cable-hole | opal | 2.90 |

### End caps (aluminium)

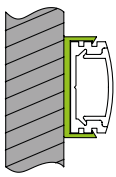



| Article no. | | Colour | Price € |
|---|---|---|---|
| 15895260 | with cable-hole | silver | 5.50 |
| 15896260 | w/o cable-hole | silver | 4.90 |

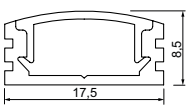


Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

## 15861... / 15862...
## Aluminium profile



**Aluminium profile** incl. opal cover, end pieces and mounting clips. The compatibility of the profiles and strips see pages 32-33.




### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15861260 | 1,000 mm | silver | 28.00 |
| 15862260 | 2,000 mm | silver | 56.00 |

### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75861260 | Aluminium profile 100 mm | 3.40 |
| 75991000 | Customization of the aluminium profile | 5.10 |

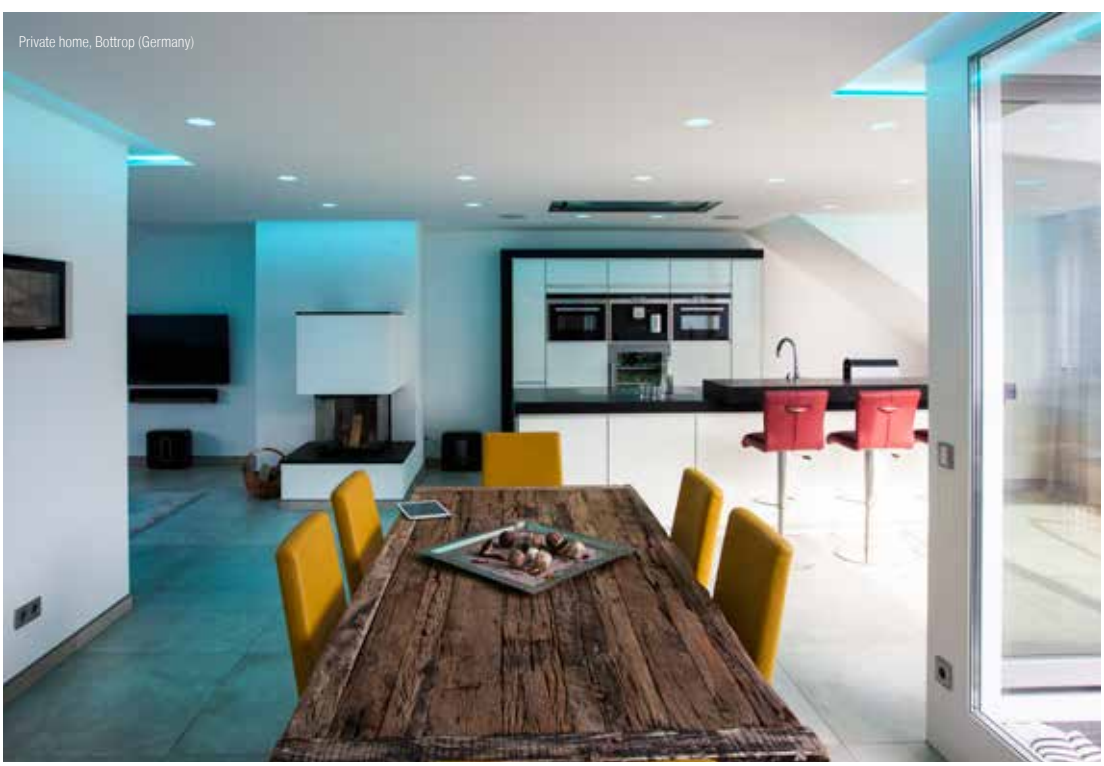
100 mm segments
See ordering details for customization on pp. 60-61

## Accessories

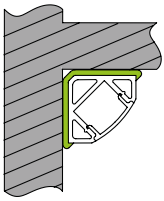
### Accessory kit

consists of:
4 x screws
4 x mounting clip
1 x end caps with cable-hole
1 x end caps without cable-hole

| Article no. | Price € |
|---|---|
| 15401000 | 11.00 |

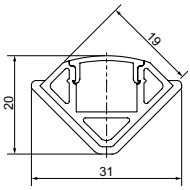

Private home, Bottrop (Germany)

## 15541... / 15542...
## Aluminium profile



### Specification

**Aluminium profile** incl. opal cover, end pieces and mounting clips. The compatibility of the profiles and strips see pages 32-33.




### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15541260 | 1,000 mm | silver | 39.00 |
| 15542260 | 2,000 mm | silver | 74.50 |

### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75541260 | Aluminium profile 100 mm | 4.70 |
| 75991000 | Customization of the aluminium profile | 5.10 |

## Accessories

### Accessory kit

consists of:
8 x screws
4 x mounting clip
1 x end caps with cable-hole
1 x end caps without cable-hole

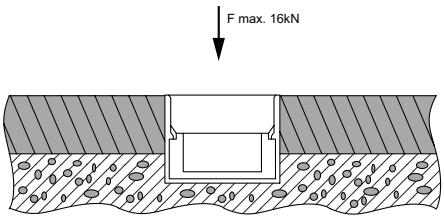
| Article no. | Price € |
|---|---|
| 15545000 | 13.40 |

Private home, Going (Austria)



Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

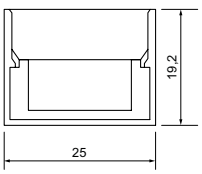
## 15031... / 15032...
## Aluminium profile




IP65

### Specification

**Aluminium profile** incl.opal cover and end pieces.
The compatibility of the profiles and strips see pages 32-33.




### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15031260 | 1,000 mm | silver | 74.50 |
| 15032260 | 2,000 mm | silver | 146.00 |

### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75031260 | Aluminium profile 100 mm | 9.00 |
| 75991000 | Customization of the aluminium profile | 5.10 |

100 mm segments
See ordering details for customization on pp. 60-61

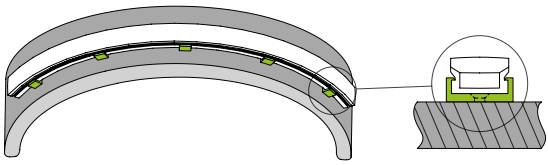
## Accessories

### Accessory kit

consists of:
1 x end caps with cable-hole
1 x end caps without cable-hole

| Article no. | Price € |
|---|---|
| 15331000 | 4.40 |

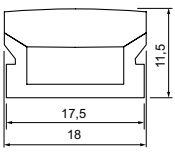
## 15915070
## Bendable profile



### Finished lengths

**PMMA profile** vertical bendable, incl. opal cover, end pieces and 10 x mounting clips. The compatibility of the profiles and strips see pages 32-33.

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15915070 | 5000 mm | opal | 269.00 |




## Accessories

### Accessory kit

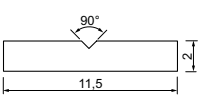
consists of:
10 x screws
10 x mounting clip
1 x end caps with cable-hole
1 x end caps without cable-hole

| Article no. | Price € |
|---|---|
| 15950000 | 23.00 |

## 1571... / 1572... / 1573...
## Aluminium profile

### Specification

**Aluminium profile** for LED conductor strips up to a width of 10 mm.




### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15711260 | 1,000 mm | silver | 10.50 |
| 15712260 | 2,000 mm | silver | 17.50 |

Aluminium profile, reverse side with double-sided adhesive strip

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15721260 | 1,000 mm | silver | 16.30 |
| 15722260 | 2,000 mm | silver | 29.00 |

Aluminium profile, reverse side with double-sided magnet strip

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15731260 | 1,000 mm | silver | 25.00 |
| 15732260 | 2,000 mm | silver | 46.50 |

### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75711260 | Aluminium profile 100 mm | 1.30 |
| 75991000 | Customization of the aluminium profile | 5.10 |

| Article no. | Customization | Price € |
|---|---|---|
| 75721260 | Aluminium profile 100 mm | 1.95 |
| 75991000 | Customization of the aluminium profile | 5.10 |

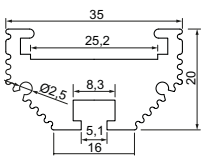
| Article no. | Customization | Price € |
|---|---|---|
| 75731260 | Aluminium profile 100 mm | 3.00 |
| 75991000 | Customization of the aluminium profile | 5.10 |



Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

## 15971... / 15972...
## Aluminium profile

Compatibility of the profiles and strips
see pages 32-33.




### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15971260 | 1,000 mm | silver | 37.00 |
| 15972260 | 2,000 mm | silver | 71.00 |

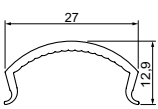
### Customization

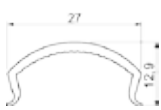
| Article no. | Customization | Price € |
|---|---|---|
| 75971260 | Aluminium profile 100 mm | 4.45 |
| 75991000 | Customization of the aluminium profile | 5.10 |

100 mm segments
See ordering details for customization on pp. 60-61

## Accessories

### Covers






### Finished lengths

**Profile covers:** Material: plastic

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15974000 | 1,000 mm | transparent | 15.00 |
| 15975000 | 2,000 mm | transparent | 30.00 |

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15974070 | 1,000 mm | opal | 15.00 |
| 15975070 | 2,000 mm | opal | 30.00 |

### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75974000 | Covers 100 mm | 1.80 |
| 75992000 | Customization of the cover | 4.70 |

| Article no. | Customization | Price € |
|---|---|---|
| 75974070 | Covers 100 mm | 1.80 |
| 75992000 | Customization of the cover | 4.70 |

100 mm segments
See ordering details for customization on pp. 60-61

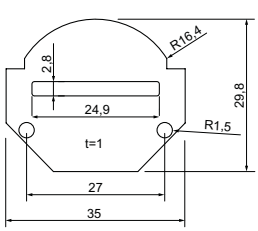
### Fixation clamp

Material: spring steel

| Article no. | Price € |
|---|---|
| 15978000 | 5.10 |

### End caps

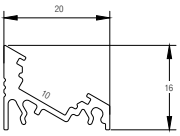
| Article no. | | Colour | Price € |
|---|---|---|---|
| 15998260 | with cable-hole | silver | 15.50 |
| 15999260 | w/o cable-hole | silver | 14.00 |



## 15941... / 15942...
## Aluminium profile

**Delivery without flexible strip**

Compatibility of the profiles and strips
see pages 32-33.




### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15941260 | 1,000 mm | silver | 15.40 |
| 15942260 | 2,000 mm | silver | 29.80 |

### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75941260 | Aluminium profile 100 mm | 1.90 |
| 75991000 | Customization of the aluminium profile | 5.10 |

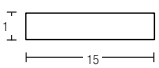
100 mm segments
See ordering details for customization on pp. 60-61

## Accessories

### Covers

**A**





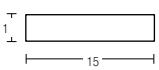

**Profile covers:** plastic (PMMA), UV stabilized

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15934070 | 1,000 mm | opal | 5.20 |
| 15935070 | 2,000 mm | opal | 9.30 |

| Article no. | Customization | Price € |
|---|---|---|
| 75934070 | Covers 100 mm | 0.70 |
| 75992000 | Customization of the cover | 4.70 |

**A**

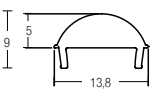





| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15934000 | 1,000 mm | satined | 5.20 |
| 15935000 | 2,000 mm | satined | 9.30 |

| Article no. | Customization | Price € |
|---|---|---|
| 75934000 | Covers 100 mm | 0.70 |
| 75992000 | Customization of the cover | 4.70 |

**B**




| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15934990 | 1,000 mm | transparent | 16.40 |
| 15935990 | 2,000 mm | transparent | 31.80 |

Beam angle 60°

| Article no. | Customization | Price € |
|---|---|---|
| 75934990 | Covers 100 mm | 2.10 |
| 75992000 | Customization of the cover | 4.70 |

100 mm segments
See ordering details for customization on pp. 60-61

### Two-fold mounting kit

Material: aluminium

| Article no. | Colour | Price € |
|---|---|---|
| 15938000 | aluminium | 2.90 |

### 2 end caps (left + right)

Material: plastic

| Article no. | Colour | Price € |
|---|---|---|
| 15947000 | silver | 3.10 |

### Connecting piece

Aluminium element (length 50 mm) for connecting two aluminium profiles (Ø 4.5 mm)

| Article no. | Colour | Price € |
|---|---|---|
| 15948000 | aluminium | 2.90 |

### L connecting piece

Aluminium element for corner connection of two aluminium profiles, incl. 2 connecting pieces

| Article no. | Colour | Price € |
|---|---|---|
| 15949000 | silver | 17.90 |

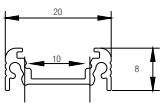


Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

## 15951... / 15952...
## Aluminium profile

**Delivery without flexible strip**

Compatibility of the profiles and strips
see pages 32-33.




### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15951260 | 1,000 mm | silver | 15.40 |
| 15952260 | 2,000 mm | silver | 29.80 |

### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75751260 | Aluminium profile 100 mm | 1.90 |
| 75991000 | Customization of the aluminium profile | 5.10 |

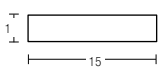
100 mm segments
See ordering details for customization on pp. 60-61

## Accessories

### Covers

A





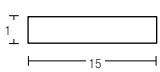

**Profile covers: P**lastic (PMMA), UV stabilized

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15934070 | 1,000 mm | opal | 5.20 |
| 15935070 | 2,000 mm | opal | 9.30 |

| Article no. | Customization | Price € |
|---|---|---|
| 75934070 | Covers 100 mm | 0.70 |
| 75992000 | Customization of the cover | 4.70 |

A

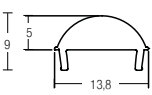





| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15934000 | 1,000 mm | satined | 5.20 |
| 15935000 | 2,000 mm | satined | 9.30 |

| Article no. | Customization | Price € |
|---|---|---|
| 75934000 | Covers 100 mm | 0.70 |
| 75992000 | Customization of the cover | 4.70 |

B




| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15934990 | 1,000 mm | transparent | 16.40 |
| 15935990 | 2,000 mm | transparent | 31.80 |

Beam angle 60°

| Article no. | Customization | Price € |
|---|---|---|
| 75934990 | Covers 100 mm | 2.10 |
| 75992000 | Customization of the cover | 4.70 |

100 mm segments
See ordering details for customization on pp. 60-61

### Connecting piece

Aluminium element (length 50 mm) for connecting two aluminium profiles (Ø 4.5 mm)

| Article no. | Colour | Price € |
|---|---|---|
| 15948000 | aluminium | 2.90 |

### 2 end caps

Material: plastic

| Article no. | Colour | Price € |
|---|---|---|
| 15957000 | silver | 3.10 |

### Two-fold mounting kit

Material: aluminium

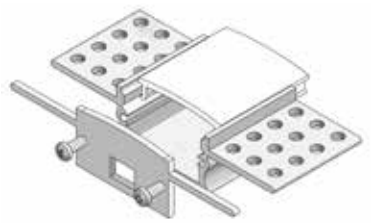
| Article no. | Colour | Price € |
|---|---|---|
| 15938000 | aluminium | 2.90 |

### L connecting piece

Aluminium element for corner connection of two aluminium profiles, incl. 2 connecting pieces

| Article no. | Colour | Price € |
|---|---|---|
| 15933000 | silver | 14.90 |

## 15071260 / 15072260
## Aluminium profile

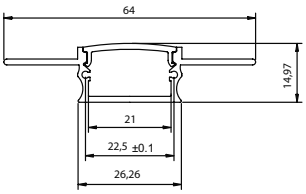


### Specification

**LED flush profile** incl. opal cover for an elegant and seamless integration into walls, ceilings or coves. Incl. two fitting aluminium pieces with mounting screws.
The compatibility of the profiles and strips see pages 32-33.

### Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15071260 | 1,000 mm | alu matt / opal | 25.00 |
| 15072260 | 2,000 mm | alu matt / opal | 46.50 |




### Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75071260 | Aluminium profile 100 mm | 3.00 |
| 75991000 | Customization of the aluminium profile | 5.10 |

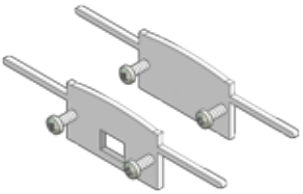
100 mm segments
See ordering details for customization on pp. 60-61

## Accessories

### Accessory kit

consists of:
2 x end cap

| Article no. | Price € |
|---|---|
| 15733000 | 6.90 |





Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

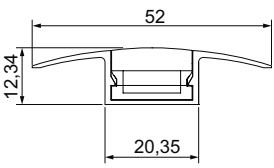
# 15831... / 15832...
# Aluminium profile

## Specification

**Aluminium profile** incl. opal satined PMMA extrusion profile and opal satined end caps. "Slide" installation type. The mounting in the base takes place with an adhesive facing wall or ceiling. The electrician is responsible for compliance with the IP protection class IP67. Two-component epoxy glue and / or acid-free cross-linked silicon is required for sealing. The compatibility of the profiles and strips see pages 32-33.

## Finished lengths

| Article no. | Length | Colour | Price € |
|---|---|---|---|
| 15831260 | 1,000 mm | silver / opal | 54.90 |
| 15832260 | 2,000 mm | silver / opal | 109.00 |




## Customization

| Article no. | Customization | Price € |
|---|---|---|
| 75831260 | Aluminium profile 100 mm | 6.60 |
| 75991000 | Customization of the aluminium profile | 5.10 |

100 mm segments
See ordering details for customization on pp. 60-61

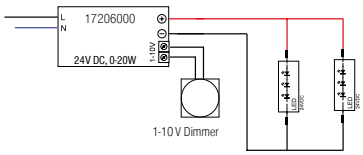
## accessories

### Accessory kit

consists of:
2 x end cap

| Article no. | Price € |
|---|---|
| 15833000 | 2.10 |

## 17206000
## LED driver



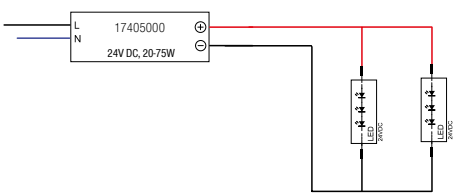
### Specification

Primary voltage: 100-120 V AC/DC/ 220-240 V AC, frequency: 50-60 Hz, ambient temperature ($T_a$): -25°C to +50°C, measuring point ($T_c$): max. 80°C, dimensions [L x W x H]: 145 x 55 x 19 mm, material: plastic

with strain relief
1-10 V dimmable (analogue)
Dimming range 1-100%

| Article no. | Secondary voltage | Output | Price € |
|---|---|---|---|
| 17206000 | 24V DC | 1-20 W | 50.70 |

## 17405000
## LED driver



### Specification

Primary voltage: 200 - 240V AC, frequency: 50-60 Hz, ambient temperature ($T_a$): -20°C to +45°C, measuring point ($T_c$): max. 80°C, dimensions [L x W x H] 200 x 63 x 30 mm, material: plastic

with strain relief
not dimmable

| Article no. | Secondary voltage | Output | Price € |
|---|---|---|---|
| 17405000 | 24 V DC | 20-75 W | 128.20 |



Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

## 17210000
## LED driver

### Specification

Primary voltage: 90 - 305 V AC / 47-63 Hz // 127 - 431 V DC,
secondary voltage: 24 V, electrical feeding (in / out): 300/300 mm
ambient temperature ($T_a$): -40° C to +50° C, measuring point ($T_c$): max 95° C,
material: aluminium

not dimmable

| Article no. | Output | Dimensions [L x W x H] | Price |
|---|---|---|---|
| 17208000 | 50-100 W | 220 x 68 x 39 mm | 139.30 |
| 17209000 | 75-150 W | 228 x 68 x 39 mm | 149.00 |
| 17210000 | 120-240 W | 244 x 68 x 39 mm | 198.00 |

## 17220000
## REG LED driver

### Specification

Primary voltage: 85 - 264 V AC / 47 - 63 Hz // 120 - 370 V DC
ambient temperature ($T_a$): - 10° C - +40° C,
dimensions [L x W x H]: 125.5 x 125.2 x 100 mm,
material: aluminium

not dimmable

| Article no. | Secondary voltage | Output | Price |
|---|---|---|---|
| 17220000 | 24 V DC | 120 - 240 W | 169.00 |

## 17221000
## REG LED driver

### Specification

Primary voltage: 180 - 264 V AC / 47 - 63 Hz // 1250 - 370 V DC
ambient temperature ($T_a$): - 20° C - +50° C,
dimensions [L x W x H]: 227 x 125.2 x 100 mm,
material: aluminium

not dimmable

| Article no. | Secondary voltage | Output | Price |
|---|---|---|---|
| 17221000 | 24 V DC | 240 - 480 W | 289.00 |

## 18151000 / 18152000 / 18153000 / 18154000
## 4 channel LED dimmer

12V DC 24V DC | III | IP20

### Specification

LED dimmer series for constant voltage operation over 4 channels (single- or multi-coloured). Wiring takes takes place without screws via plug-in terminals.

It requires an external power supply to operate, material: plastic, cable cross-section: 0.5 - 2.5 mm², output signal (dimming): Pulse width modulation, ambient temperature ($T_a$): 0° C - +50° C, casing temperature ($T_c$): 75° C, reverse polarity protection: yes, heat protection: yes

| Article no. | Control signal | Number of channels | Max. output current | Voltage range | Max. output rating | Dimensions [LxWxH] | Price |
|---|---|---|---|---|---|---|---|
| 18151000 | "KNX" system requirement: min. ETS 3.0F or higher. Software download at www.brumberg.com | 1 - 4 | 4 x 5 A | 12 - 24 V DC | 4x 60 W (12 V DC)<br>4x 120 W (24 V DC) | 170 x 54 x 30 mm | 459.00 |
| 18152000 | Dali | 1 - 4 | 4 x 5 A | 12 - 36 V DC | 4x 60 W (12 V DC)<br>4x 120 W (24 V DC) | 170 x 54 x 30 mm | 129.00 |
| 18153000 | DMX | 1 - 4 | 4 x 5 A | 12 - 36 V DC | 4x 60 W (12 V DC)<br>4x 120 W (24 V DC) | 170 x 54 x 30 mm | 129.00 |
| 18154000 | 1-10 V | 1 - 4 | 4 x 5 A | 12 - 36 V DC | 4x 60 W (12 V DC)<br>4x 120 W (24 V DC) | 170 x 54 x 30 mm | 119.00 |

## 18161000 /18162000 /18163000 / 18164000
## 4 channel REG LED dimmer

12V DC 24V DC | III | IP20

### Specification

The REG LED dimmer series for constant voltage operation of 4 channels (single- or multi-coloured) is suitable for installing on hat rails in the control and distributor cabinet. Wiring takes place without screws via plug-in terminals (Dali, DMX, 1-10 V) or with a KNX device via screw terminals.

To operate this device an external power source is required. Material: plastic, cable cross-section: 0.5 - 2.5 mm², output signal (dimming): Pulse width modulation, ambient temperature ($T_a$): 0°C - +50°C, ambient temperature ($T_c$): 75°C, reverse polarity protection: yes, heat protection: yes

| Article no. | Control signal | Number of channels | Max. output current | Voltage range | Max. output rating | Dimensions [LxWxH] | Price |
|---|---|---|---|---|---|---|---|
| 18161000 | "KNX" system requirement: min. ETS 3.0F or higher. Software download at www.brumberg.com | 1 - 4 | 4 x 5 A | 12 - 24 V DC | 4x60W (12V DC)<br>4x120W (24V DC) | 72 x 90 x 70mm<br>4 TE | 479.00 |
| 18162000 | Dali | 1 - 4 | 4 x 5 A | 12 - 36 V DC | 4x60W (12V DC)<br>4x120W (24V DC) | 54 x 110 x 66mm<br>3 TE | 129.00 |
| 18163000 | DMX | 1 - 4 | 4 x 5 A | 12 - 36 V DC | 4x60W (12V DC)<br>4x120W (24V DC) | 54 x 110 x 66mm<br>3 TE | 129.00 |
| 18164000 | 1-10 V | 1 - 4 | 4 x 5 A | 12 - 36 V DC | 4x60W (12V DC)<br>4x120W (24V DC) | 54 x 110 x 66mm<br>3 TE | 119.00 |



Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

## 18187000 / 17505000 / 17508000
## Controller incl. remote control

12V DC 24V DC | III | IP20

**Note:**
May be controlled with a remote control up to 4 switching groups (1 controller per switching group).

### Specification RGB

Voltage: 12-24 V DC, current: max. 6 A per channel,
power: max. 216 W / 432 W (12 V DC / 24 V DC),
energisation: negative (shared anode), 4-core wire,
radio frequency: 2.4 GHz, range: ~30 m, adjustable dimming range: 5-100 %,
controller connection through screw terminals,
controller dimensions (L x W x H): 85 x 45 x 23 mm,
radio remote control dimensions (L x W x H): 120 x 52 x 20 mm,
radio remote control battery: 3 V DC / 2x AAA (not included in delivery)

| Article no. | Specification | Price € |
|---|---|---|
| 18187000 | RGB Set (RGB controller incl. remote control) | 129.00 |
| 18188000 | RGB controller (individual components) | 60.40 |
| 18189000 | RGB radio remote control (individual components) | 69.00 |

This purely RGB radio control creates 3 PWM control signals for controlling the colour of RGB LED modules.

The following functions can be accessed via the touch remote control:
- Intuitive colour adjustment via the colour selection wheel.
- Selection of 9 colour changing programmes.
- Brightness adjustment of static colours through the touch field.
- Speed adjustment of colour change in the running programme.
- Up to 4 switch groups via remote control (multi-room operation).
- Separate on and off switch of all 4-switch groups of the lighting unit.
- Synchronisation of all 4-switch groups via a long push of the button.

### Specification TunableWhite

Voltage: 12-24 V DC, current: max. 6 A per channel,
power: max. 144 W / 288 W (12 V DC / 24V DC),
energisation: negative (shared anode), 3-core wire,
radio frequency: 2,4 GHz, range: ~30 m, adjustable dimming range: 5-100 %,
controller connection through screw terminals,
controller dimensions (L x W x H): 85 x 45 x 23 mm,
radio remote control dimensions (L x W x H): 110 x 52 x 20 mm,
battery for radio remote control. 3 V DC / 2x AAA (not included in delivery)

| Article no. | Specification | Price € |
|---|---|---|
| 17505000 | TunableWhite set<br>(2 channel controller incl. remote control) | 96.80 |
| 17506000 | TunableWhite controller (individual components) | 59.00 |
| 17507000 | White light radio remote control (individual components) | 37.80 |

This purely white light radio control produces 2 PWM control signals for controlling bi-colour LED modules in the white light range.

The following functions are possible via remote operation:
- Variable adjustment of the colour temperature through +/- buttons.
- Brightness adjustment through +/- buttons.
- Up to 4 switch groups via remote control (multi-room operation).
- Separate on and off switch of all 4-switch groups of the lighting unit.

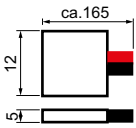
### Specification, 1 channel

Voltage: 12-24 V DC, current: max. 2 x 6 A,
output: max. 144 W / 288W (12 V DC / 24 V DC),
radio frequency 2.4 GHz, range: up to 30 m,
controller connection through screw terminals,
controller dimensions (L x W x H): 85 + 45 + 23 mm.
Radio remote control dimensions (L x W x H): 110 + 52 + 20 mm,
battery for radio remote control: 3 V DC / 2 x AAA (not included in delivery)

| Article no. | Specification | Price € |
|---|---|---|
| 17508000 | White light set<br>(1 channel controller incl. remote control) | 96.80 |
| 17509000 | 1 channel controller (individual components) | 59.00 |
| 17507000 | White light radio remote control (individual components) | 37.80 |

This 1 channel radio control produces 1 PWM control signal for controlling a single-colour LED module in the white light range.

## 15724000
## Feed-in for 15201...

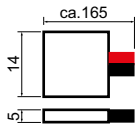



### Specification

Feed-in only to be used for 15201..., max. 3A,
incl. connector cable approx. 150 mm.

| Article no. | Number of poles | Price € |
|---|---|---|
| 15724000 | 2 | 21.50 |

## 15725000
## Feed-in for 15203...

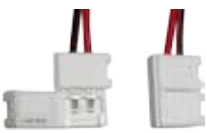


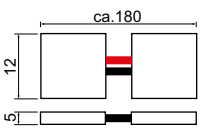

### Specification

Feed-in only to be used for 15203..., max. 3A,
incl. connector cable approx. 150 mm.

| Article no. | Number of poles | Price € |
|---|---|---|
| 15725000 | 2 | 25.90 |

## 15727000
## Connector



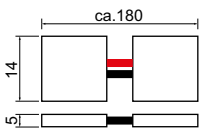



### Specification

Connecting element only to be used for 15201..., max. 3 A,
incl. connection cable approx. 150 mm.

| Article no. | Number of poles | Price € |
|---|---|---|
| 15727000 | 2 | 34.50 |

## 15728000
## Connector

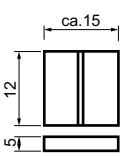



### Specification

Connecting element only to be used for 15203..., max. 3 A,
incl. connector cable approx. 150 mm.

| Article no. | Number of poles | Price € |
|---|---|---|
| 15728000 | 2 | 38.90 |

## 15730000
## Direct connector

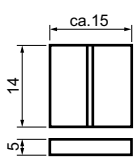



### Specification

Direct connector only to be used for 15201..., max. 3 A.

| Article no. | Number of poles | Price € |
|---|---|---|
| 15730000 | 2 | 19.40 |

## 15731000
## Direct connector




### Specification

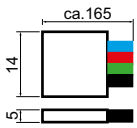
Direct connector only to be used for 15203..., max. 3 A.

| Article no. | Number of poles | Price € |
|---|---|---|
| 15731000 | 2 | 21.50 |



Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

## 15726000
## Feed-in for 15203001...

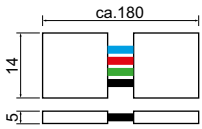


### Specification

Feed-in only to be used for 15203001, max. 3 A,
incl. connector cable approx. 150 mm.

| Article no. | Number of poles | Price € |
|---|---|---|
| 15726000 | 4 (RGB) | 29.90 |

## 15729000
## Connector

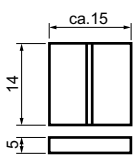


### Specification

Connecting element only to be used for 15203001, max. 3 A,
incl. connector cable approx. 150 mm.

| Article no. | Number of poles | Price € |
|---|---|---|
| 15729000 | 4 (RGB) | 42.90 |

## 15732000
## Direct connector for RGB conductor strips



### Specification

Direct connector to be used for flexible LED RGB conductor strip 15203001,
max. 3 A.

| Article no. | Number of poles | Price € |
|---|---|---|
| 15732000 | 4 (RGB) | 23.50 |

## 15720000
## Silicon end cap set, 12 mm

### Specification

Silicon end caps for flexible conductor strips IP67, incl. a tube of silicon for
sealing. Compatible with conductor strip 15271... and 15272...
Width 12 mm.

| Article no. | Price € |
|---|---|
| 15720000 | 9.90 |

## 15721000
## Silicon end cap set, 14 mm

### Specification

Silicon end caps for flexible conductor strips IP67, incl. a tube of silicon for
sealing. Compatible with conductor strip 15273... (not suitable for RGB).
Width: 14 mm

| Article no. | Price € |
|---|---|
| 15721000 | 9.90 |

# CUSTOMIZATION SERVICE

## Customization of LED flex strips and aluminium and plastic profiles

Customization of LED flexible strips

We divided the full length of our QualityFlex® strips into the smallest divisible unit. According to the length you need, you have to order a multiple of this minimum unit.

ATTENTION:
Every customized length must be ordered as an individual item. The maximum allowable special length (art.-no.: 75...) = total length of the appropriate roll product (art.-no.: 15...).

### SAMPLE ORDER FOR QUALITYFLEX® STRIP WITH IP00:

Roll product art.-no. 15002003 (IP00, total length 5000 mm); minimum unit = 100 mm = art.-no. 75002003

You need a length from this QualityFlex® strip of 3,600 mm.

Your order has to consist of:
36 x art.-no. 75002003 = QualityFlex® strip, length 3,600 mm
1 x art.-no. 75998000 = customization with protection class IP00, incl. connector cable at one end (soldered, length 300 mm)

### SAMPLE ORDER FOR QUALITYFLEX®STRIP WITH IP62 OR IP67:

Roll product art.-no. 15003003 (IP62, total length 5,000 mm); minimum unit = 100 mm = art.-no. 75003003

You need a length from this QualityFlex® strip of 2,100 mm.

Your order has to consist of:
21 x art.-no. 75003003 = QualityFlex strip 2,100 mm long
1 x art.-no. 75999000 = customization for increased protection rating, incl. connector cable at one end (soldered, length 300 mm)



Dimensions indicated in mm | All prices shall be understood as the recommended retail price (RRP) in euros without VAT.
Errors excepted | Delivery shall take place according to our general conditions of sale printed on page 64-65.

Customization of aluminium and plastic profiles

We offer our QualityFlex® aluminium profiles and corresponding plastic cover profiles in standard lengths of 1,000 mm and 2,000 mm. According to the customized length you need, you have to order a multiple of the minimum unit of 100 mm.

ATTENTION:
Every customized profile must be ordered as an individual item. Please inquire about special lengths longer than 2,000 mm.

## SAMPLE ORDER FOR QUALITYFLEX® ALUMINIUM PROFILE

You need aluminium profile (art.no. 15951260) and the corresponding plastic profile (art.no. 15934990) customized to 700 mm length. Please order the following:

7 x art.-no. 75951260 = aluminium profile being 700 mm long
1 x art.-no. 75991000 = customization aluminium profiles
7 x art.-no. 75934990 = plastic cover profile, 700 mm long
1 x art.-no. 75992000 = customization plastic cover

Customization versions

75998000 = customization for the connector cable for protection class IP00

75999000 = customization for the connector cable with increased protection rating

75991000 = customization aluminium profiles
75992000 = customization plastic cover

For any questions, please contact our sales team.

# General Terms of Sale

General Sale Terms and Conditions
of Brumberg Leuchten GmbH & Co. KG Company

**§ 1**
**General - Scope**

1. Our Terms and Conditions shall apply exclusively; contradicting conditions or conditions of the customer that deviate from our Terms and Conditions will not be accepted by us unless we have expressly agreed to their applicability in writing. Our Terms and Conditions shall also apply when we perform deliveries without objection while being aware of contradicting conditions or Terms and Conditions that differ from ours. 2. Decisive for the content and scope of deliveries and services shall be our written offer and, if we issue an order confirmation, our written order confirmation.
3. Our Terms and Conditions shall only be applicable to companies within the meaning of § 310 Sec. 1 BGB [Bürgerliches Gesetzbuch - German Federal Civil Code].
4. Our Terms and Conditions shall also apply to all future business with the customer. The following Terms and Conditions supersede the customer's Terms and Conditions that differ in content. The customer's waiver of the applicability of any of their own Terms and Conditions shall also not be invalidated by to our silence or our performance. A deviation from the following Terms and Conditions in an individual case shall require our written confirmation.
5. All technical data in our catalogues and other sales materials, lists and drawings as well as weight, measurement and mixing information has been carefully prepared, however, we reserve the right to later corrections. 6. It shall be the customer's responsibility to check whether our product is suitable for the customer's specified purpose.

**§ 2**
**Quote - Quotation Documents**

1. If the order is to be qualified as a quote in accordance with § 145 BGB, we shall have the right to accept it within four weeks.
2. We reserve property rights and intellectual property rights in depictions, drawings, cal-culations and other documents; they must not be made available to third parties. This shall also apply to any written documents labelled as confidential. Their disclosure to third parties by the customer shall require our express written approval. Quotes shall only be valid if in written form. The prices stated shall apply subject to the condition that the order data on which the quote tendered was based remain unchanged.
3. We shall only prepare first samples and first sample test reports upon express written agreement, billed at cost.
4. For products ordered based on customer's drawings or samples, customer shall be obliged to check for possible property rights of third parties and to not infringe upon them. If, due to a breach of this obligation a third party is prohibiting a production claiming a property right belonging to said third party, or if the product can not be used due to a violation of said property right, we shall be entitled - without having to verify the legal status and to the exclusion of any compensation to the customer, no matter what the legal status may be - to stop production and delivery until the facts have been clarified and to demand compensation from the customer, in the amount of at least 15% of the invoice total for the product ordered. Customer shall already now hold us harmless of any and all claims for damages or other compensation, especially from the holders of right, upon first response. Included in the scope of the damages shall also be such costs as we may incur due to having to defend against claims of third parties.

**§ 3**
**Prices - Terms and Conditions of Payment**

1. Unless the order confirmation specified something else, our prices shall be ex-works, incl. packaging typically used for our products, plus the value added tax applicable at the date of the invoice. Requested special packaging or outer packaging or special small packages shall be billed to the customer. The prices shall be applicable, respectively, only to the contractually agreed upon quantity and design. If the customer requests changes that require higher processing than what the contract or typical produc-tion process is based on, we shall reserve the right to a reasonable adjustment of the price.
We reserve the right to increase our prices if - after the contract has been signed- in particular if due to bargaining agreements, increases in the prices of materials, especially increases in the prices of raw materials or increases in costs of energy.
2. The statutory value-added tax is not included in our prices; it will be specified separately on the invoice in the statutory amount applicable on the day the invoice is issued.
3. The deduction of a discount shall require a special written agreement.
4. Unless specified differently in the order confirmation, the purchase price shall be due net (without deduction) free of transaction charges and shall be payable within 10 days of the date of the invoice. If customer is in default, we shall be entitled to demanding in-terest on arrears in the amount of 8 percentage points above the statutory base interest rate per year. If we are able to provide proof of higher damages due to this default, we shall be entitled to claim those. The Customer, however, shall have the right to prove to us that we did not incur damages or did incur significantly lower damages as a result of this default.
5. Customer shall be entitled to offsetting only if its counterclaims have been judicially determined, are uncontested, or have been acknowledged by us. Also, customer shall not have any right to retention on account of contested counterclaims. Furthermore, customer shall only be entitled to exercising a right of retention to the extent that its counterclaim is based on the same contractual relationship. Credit memos are express-ly granted for the purpose of offsetting. There shall be no claim to the payment outright.
6. In case of doubt regarding customer's ability to pay, we reserve the right to demand advance payments or that securities be rendered. If we obtain knowledge that an attachment could not be enforced at the customer or if we receive any indication of a financial collapse of the customer, we shall be entitled to withdraw from the contract subject to a charge for the expenses incurred.

**§ 4**
**Delivery Schedule - Terms and Conditions of Delivery**

1. The start of the delivery schedule stated by us or agreed upon with us presupposes that all technical questions have been addressed, all documents to be supplied by the customer have been delivered, all necessary permits and releases have been obtained by the customer, especially with respect to plans as well as the adherence to the agreed upon Terms and Conditions of Payment and the fulfilment of the other acts of cooperation by the customer.
2. Furthermore, the adherence to our obligation to deliver presupposes the timely and proper fulfilment of the customer's obligation as well as that we received proper delivery of the raw materials necessary for manufacturing the delivery product. The right to objection of non-fulfilled shall remain reserved.
3. If the non-adherence to delivery schedules is due to force majeure, e.g. strike, lock-out, etc., the deadlines shall be reasonably extended. Such a reasonable extension of the delivery deadlines shall also apply if we do not receive our deliveries on time.
4. If customers is defaulting on acceptance or if customer culpably violates other duties of cooperation, we shall be entitled to demand compensation of any resulting damages including any possible extra expenses. We reserve the right to assert further claims and rights. If the delivery or shipment is postponed upon customer's request, we shall be entitled to bill the customer a storage fee in the amount of 0.05% of the invoice total for each month started, up to a maximum of 5% of the invoice total, 10 days after notifying customer that the goods are ready for shipment. Both parties to the contract shall have the right to prove higher or lower expenses.
5. If the prerequisites in Sec. 4 exist, the risk of accidental loss or accidental deterioration of the goods shall pass to customer at the moment customer defaults on acceptance or payment.
6. In accordance with the statutory regulations, we shall be liable to the extent that the underlying purchasing contract is a fixed date transaction in the meaning of § 286 Sec. 2 Nr. 4 BGB or of § 376 HGB (German Commercial Code). In accordance with the statutory regulations, we shall also be liable if customer, due to a delayed delivery due to our fault, is entitled to claim that customer's interest in the continued fulfilment of the contract has ended.
7. Furthermore, in accordance with the statutory regulations, we shall be liable if the delayed delivery is due to a wilful or grossly negligent breach of contract for which we are responsible; culpability of our representatives or vicarious agents shall be attributed to us. If the default in delivery is due to a grossly negligent breach of contract for which we are responsible, our liability shall be limited to the foreseeable, typically occurring damages.
8. We shall also be liable in accordance with statutory provisions, insofar as the delay in delivery that was our fault is based on a culpable breach of a material contractual obligation; in this case, however, the liability for damages shall be limited to the foreseeable, typically occurring damages.
9. We shall be entitled to make partial deliveries within a reasonablescope. Deviations in measurements, weight, technical design, manufacturing and quantity of the goods to be delivered shall be allowed within customary, productrelated tolerances. Furthermore deemed as approved by the manufacturer shall be modifications that serve technical advancement and improvement of our products.

**§ 5**
**Transfer of Risk - Packaging Costs**

1. Unless the order confirmation specifies otherwise, the delivery shall be agreed upon ex works.
2. The return of packaging materials shall be subject to special agreements.
3. If requested by the ordering party, we will obtain transport insurance for the delivery; the costs caused by it shall be born by the ordering party.
4. Customer shall be required to name one or more people within a reasonable period before delivery of the goods who are authorised by customer to accept the goods and the accompanying documents, and to sign the delivery papers and accompanying documents on behalf of customer. This shall apply in particular if the goods are delivered to a location other than customer's place of business. If such information is not provided, those persons who actually accept the goods shall be deemed authorised to accept the goods and to sign the transfer papers (delivery note and other accompanying papers).
5. If none of the people named by customer are present at the agreed upon time at the specified location or if this person or other persons are not willing to accept the

goods, customer shall be in default of acceptance, with the consequence that the risk transfers to customer. Furthermore, customer shall bear the extra costs arising from a renewed delivery.
6. Customer shall not be entitled to reject deliveries due to minor defects.

**§ 6**
**Liability for Defects**
1. Customer's claims for defects presuppose that customer properly fulfilled its inspection and complaint obligations owed in accordance with § 377 HGB.
2. If the purchased item does have a defect, we shall - at our discretion- be entitled to provide remedy in form of a correction of the defect or to deliver a new defect-free item. In case of a remedy of the defect, we shall be required to bear all expenses necessary for the remedy, in particular transport, travel, work and materials costs, if those are not increased by the fact that the purchased item was brought to a location different from the place of fulfilment. In any case, in case of a remedy of the defect, we shall only bear the expenses up to the amount of the purchase price.
3. If the remedy fails, customer - at its discretion - shall have the right to demand with-drawal or reduction.
4. We shall be liable in accordance with the statutory stipulations insofar as customer makes claims for damages that are a result of intent or gross negligence, including intent of gross negligence of our representatives or vicarious agents. Unless we are claimed to be in deliberate breach of contract, our liability for damages shall be limited to the foreseeable, typically occurring damages.
5. In accordance with the statutory regulations, we shall be liable if we culpably violated a material contractual obligation; however, even in this case, the liability for damages shall be limited to the foreseeable, typically occurring damages. A material contractual obligation shall exist if the violation of the obligation refers to an obligation in whose ful-filment customer has trusted and could be expected to trust in.
6. Liability for culpable injury to life, limb or health shall remain unaffected; this shall also apply to mandatory liability in accordance with the product liability law (Produkthaftungsgesetz).
7. To the extent not otherwise specified above, any liability shall be excluded.
8. The period of limitation for claims for defects shall be 12 months, as from the transfer of risk.

**§ 7**
**Joint and Several Liability**
1. Liability for damages other than that provided in § 6 and § 4 shall be excluded - regardless of the legal nature of the claim. This shall in particular apply to claims for damages arising from negligence when entering into the contract, damages because of other breaches of obligations, or damages because of tortuous claims for compensation for damages in accordance with § 823 BGB.
2. The period of limitation for all claims that are not subject to the period of limitation for defects of the item shall be a preclusion period of 18 months. It shall commence upon obtaining knowledge of the damage and of the person causing the damage.
3. The limitation pursuant to Sec. 1 shall also apply, insofar as the customer demands compensation of useless expenses instead of performance.
4. Insofar as liability for damages against us is excluded or limited, this shall also apply with respect to the personal liability for damages of our employees, workers, associates, representatives and vicarious agents.

**§ 8**
**Securing Retention of Title**
1. We shall retain the title to the purchased item until we have received all payments due us from the business relationship with customer. To the extent that we agree with the customer on payment of the purchase price owed on the basis of the check/note payment procedure, the retention shall also extend to the redemption of the note from the customer, accepted by us, and shall not be eliminated by the crediting of the check we received. If customer breaches the terms of the contract, in particular in case of default of payment, we shall be entitled to take back the purchased goods. Our garnishment of the purchased goods shall constitute a withdrawal from the contract. Upon taking back the purchased goods, we shall be entitled to reutilise them; after the deduction of reasonable utilisation costs, the proceeds from the sale shall be offset against the ordering party's liabilities.
2. Customer agrees to handle the purchased goods with care; in particular, the ordering party shall be required to insure them at its own expense against fire, water and theft at their original value. Where maintenance and inspection work is required, customer shall have it performed timely at its own expense.
3. In case of attachments or other encroachments by third parties, customer shall notify us immediately so that we can file a lawsuit in accordance with § 771 ZPO (German Code of Civil Procedure). Insofar as the third party is not able to reimburse us for the judicial and extra-judicial costs of such a lawsuit in accordance with § 771 ZPO, customer shall be liable for any losses we incur.
4. Customer shall be entitled to resell the purchased goods in the ordinary course of business; Customer shall, however, already now assign to us all accounts receivables in the amount of the final invoice amount (incl. VAT) of our account receivable that accrue to him against purchasers or third parties on resale, independently of whether the purchased goods were resold without or after processing it. Customer shall remain author-ised to collect this account receivable even after assignment. Our authorisation to collect the account receivable ourselves shall remain unaffected by this. However, we agree not to collect the accounts receivable as long as customer complies with its payment obligations from the collected proceeds, does not default in payment and, in particular, no petition for the institution of insolvency or composition proceedings is filed or cessations of payment exist. But if this is the case, we shall be entitled to demand that customer inform us about assigned receivables and the debtor of same, provide us with all information required for collection, hand out the pertinent documents and inform the debtor (third party) of the assignment. The claim already ceded to us in advance shall also apply to the acknowledged balance, as well as, in the case of an insolvency of the customer, to the then existing causal balance.
5. The processing or transformation of the purchased goods by customer shall always be done for us. If the purchased goods are processed together with other items not belonging to us, we shall consequently acquire co-ownership of the new object in proportion to the value of the purchased goods (invoice total, incl. VAT) to the other processed items at the time at which processing took place. Incidentally, for the object resulting from the processing, the same shall apply as for the purchased goods under reservation.
6. If the purchased goods are combined with other objects not belonging to us such that they cannot be separated from one another, we then shall acquire joint ownership of the new object in proportion to the value of the purchased goods (invoice total, incl. VAT) to the other processed items at the time at which combining took place. If the combining occurs such that customer's object is regarded as the principal item, then it is deemed agreed upon that customer shall transfer co-ownership to us proportionally. Customer shall keep safe the resulting sole ownership or co-ownership for us.
7. As security for our claims against it, customer shall assign to us all claims against a third party resulting from combining the purchased goods with real property.
8. We undertake to release the securities due to us at customer's request insofar as the realisable value of our securities exceeds the secured accounts receivable by more than 10 %; the selection of the securities to be released shall be at our discretion.

**§ 9**
**Place of Jurisdiction - Place of Performance - Severability Clause**
1. If the customer has merchant status, the court, which is locally competent for the place of our business, shall have jurisdiction; we shall, however, also be entitled to bring action against customer at its place of business.
2. The laws of the Federal Republic of Germany shall be applicable; the terms of the UN Convention on Contracts for the Sale of Goods shall be excluded.
3. Unless stated otherwise in the order confirmation, place of performance shall be the headquarters of Brumberg Leuchten GmbH & Co. KG.
4. These General Terms and Conditions of Sale also retain their validity, even if individual provisions thereof should prove to be invalid. The parties are to supplement or reinterpret invalid provisions, so that the economic purpose intended by any invalid provision can be most closely approximated. The same approach is to be taken if, when carrying out the contractual relationship, it becomes apparent that there is a gap that must be filled. If invalidity is based on a stipulation as to performance or time, then the provision in question is to be replaced by its statutorily permissible equivalent. If a provision of these General Terms and Conditions of Sale or of the Contract should prove to be invalid on the basis of mandatory foreign law, then upon request the supplier is to enter into the necessary supplements to this Contract with us, as well as to make any necessary declarations to third parties or officials, so that the validity of the affected provisions is also maintained under foreign law or, if this is not possible, the economic purpose thereof is maintained.
5. The German version of the General Terms and Conditions shall be the authoritative version. In case of translations, it shall prevail over the English translation and is designed based on German law.

Sundern, in June 2015

# Index


| Art. no. | Page | Price € |
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| 15031260 | 47 | 74,50 |
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| 15201004 | 8 | 98,00 |
| 15201005 | 8 | 98,00 |
| 15201006 | 8 | 98,00 |
| 15201007 | 8 | 98,00 |
| 15201008 | 8 | 98,00 |
| 15201009 | 8 | 98,00 |
| 15201027 | 8 | 98,00 |
| 15202003 | 10 | 175,00 |
| 15202004 | 10 | 175,00 |
| 15202005 | 10 | 175,00 |
| 15202027 | 10 | 175,00 |
| 15203001 | 22 | 198,00 |
| 15203003 | 12 | 198,00 |
| 15203004 | 12 | 198,00 |
| 15203005 | 12 | 198,00 |
| 15203027 | 12 | 198,00 |
| 15204003 | 14 | 209,00 |
| 15204004 | 14 | 209,00 |
| 15204005 | 14 | 209,00 |
| 15204027 | 14 | 209,00 |
| 15205003 | 16 | 298,00 |
| 15205004 | 16 | 298,00 |
| 15205005 | 16 | 298,00 |
| 15205027 | 16 | 298,00 |
| 15206003 | 18 | 289,00 |
| 15206004 | 18 | 289,00 |
| 15206005 | 18 | 289,00 |
| 15206027 | 18 | 289,00 |
| 15215004 | 20 | 379,00 |
| 15221003 | 8 | 129,00 |
| 15221004 | 8 | 129,00 |
| 15221005 | 8 | 129,00 |
| 15221027 | 8 | 129,00 |
| 15222003 | 10 | 198,00 |
| 15222004 | 10 | 198,00 |
| 15222005 | 10 | 198,00 |
| 15222027 | 10 | 198,00 |
| 15223001 | 22 | 249,00 |
| 15223003 | 12 | 249,00 |
| 15223004 | 12 | 249,00 |
| 15223005 | 12 | 249,00 |
| 15223027 | 12 | 249,00 |

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|---|---|---|
| 15271003 | 8 | 149,00 |
| 15271004 | 8 | 149,00 |
| 15271005 | 8 | 149,00 |
| 15271006 | 8 | 149,00 |
| 15271007 | 8 | 149,00 |
| 15271008 | 8 | 149,00 |
| 15271009 | 8 | 149,00 |
| 15271027 | 8 | 149,00 |
| 15272003 | 10 | 229,00 |
| 15272004 | 10 | 229,00 |
| 15272005 | 10 | 229,00 |
| 15272027 | 10 | 229,00 |
| 15273001 | 22 | 279,00 |
| 15273003 | 12 | 279,00 |
| 15273004 | 12 | 279,00 |
| 15273005 | 12 | 279,00 |
| 15273027 | 12 | 279,00 |
| 15331000 | 47 | 4,40 |
| 15401000 | 45 | 11,00 |
| 15541260 | 46 | 39,00 |
| 15542260 | 46 | 74,50 |
| 15545000 | 46 | 13,40 |
| 15701260 | 42 | 21,30 |
| 15702260 | 42 | 39,30 |
| 15704000 | 42 | 12,80 |
| 15704000 | 43 | 12,80 |
| 15704070 | 42 | 12,80 |
| 15704070 | 43 | 12,80 |
| 15705000 | 42 | 25,50 |
| 15705000 | 43 | 25,50 |
| 15705070 | 42 | 25,50 |
| 15705070 | 43 | 25,50 |
| 15707260 | 42 | 6,40 |
| 15708260 | 42 | 6,40 |
| 15709260 | 42 | 4,60 |
| 15711260 | 48 | 10,50 |
| 15712260 | 48 | 17,50 |
| 15714070 | 37 | 19,90 |
| 15715070 | 37 | 39,90 |
| 15721260 | 48 | 16,30 |
| 15722260 | 48 | 29,00 |
| 15730070 | 34 | 17,30 |
| 15730070 | 35 | 17,30 |
| 15731070 | 34 | 34,50 |
| 15731070 | 35 | 34,50 |

| Art. no. | Page | Price € |
|---|---|---|
| 15731260 | 48 | 25,00 |
| 15731260 | 52 | 25,00 |
| 15732260 | 48 | 46,50 |
| 15732260 | 52 | 46,50 |
| 15733000 | 52 | 6,90 |
| 15734000 | 34 | 14,40 |
| 15734000 | 35 | 14,40 |
| 15734000 | 36 | 14,40 |
| 15734000 | 40 | 14,40 |
| 15735000 | 34 | 28,30 |
| 15735000 | 35 | 28,50 |
| 15735000 | 36 | 28,50 |
| 15735000 | 40 | 28,50 |
| 15736000 | 37 | 3,90 |
| 15737000 | 37 | 3,90 |
| 15738000 | 36 | 7,90 |
| 15739000 | 36 | 7,90 |
| 15741000 | 37 | 20,00 |
| 15741260 | 36 | 17,50 |
| 15742000 | 37 | 39,90 |
| 15742260 | 36 | 31,90 |
| 15744000 | 35 | 2,90 |
| 15745000 | 35 | 2,90 |
| 15751260 | 35 | 14,90 |
| 15751260 | 51 | 15,40 |
| 15752260 | 35 | 26,90 |
| 15752260 | 51 | 29,80 |
| 15757000 | 35 | 2,90 |
| 15758000 | 35 | 2,90 |
| 15761260 | 34 | 16,30 |
| 15762260 | 34 | 29,30 |
| 15765070 | 34 | 14,40 |
| 15765070 | 35 | 14,40 |
| 15765070 | 36 | 14,40 |
| 15765070 | 40 | 14,40 |
| 15766070 | 34 | 28,80 |
| 15766070 | 35 | 28,80 |
| 15766070 | 36 | 28,80 |
| 15766070 | 40 | 28,80 |
| 15767000 | 34 | 2,90 |
| 15768000 | 34 | 2,90 |
| 15769000 | 34 | 2,80 |
| 15769000 | 35 | 2,80 |
| 15769000 | 36 | 2,80 |
| 15769000 | 37 | 2,80 |

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| 15769000 | 38 | 2,80 |
| 15769000 | 39 | 2,80 |
| 15770000 | 34 | 6,30 |
| 15770000 | 35 | 6,30 |
| 15770000 | 36 | 6,30 |
| 15770000 | 37 | 6,30 |
| 15770000 | 38 | 6,30 |
| 15770000 | 39 | 6,30 |
| 15771000 | 34 | 2,80 |
| 15771000 | 35 | 2,80 |
| 15773000 | 34 | 2,90 |
| 15774000 | 34 | 2,90 |
| 15781260 | 40 | 29,90 |
| 15782260 | 40 | 58,00 |
| 15786260 | 40 | 15,50 |
| 15787260 | 40 | 15,50 |
| 15788000 | 40 | 7,90 |
| 15789000 | 40 | 13,50 |
| 15791260 | 37 | 23,50 |
| 15792260 | 37 | 43,50 |
| 15807000 | 38 | 13,50 |
| 15807000 | 41 | 13,50 |
| 15808000 | 38 | 27,30 |
| 15808000 | 41 | 27,30 |
| 15809070 | 38 | 13,50 |
| 15809070 | 41 | 13,50 |
| 15810070 | 38 | 27,30 |
| 15810070 | 41 | 27,30 |
| 15816000 | 41 | 6,50 |
| 15817000 | 41 | 6,50 |
| 15822000 | 39 | 22,90 |
| 15823000 | 39 | 45,90 |
| 15824070 | 39 | 22,90 |
| 15825070 | 39 | 45,90 |
| 15831260 | 53 | 54,90 |
| 15832260 | 53 | 109,00 |
| 15833000 | 53 | 2,10 |
| 15841260 | 38 | 38,50 |
| 15842260 | 38 | 73,90 |
| 15851260 | 44 | 16,00 |
| 15852260 | 44 | 29,00 |
| 15861260 | 45 | 28,00 |
| 15862260 | 45 | 56,00 |
| 15867000 | 38 | 5,20 |
| 15868000 | 38 | 5,20 |

| Art. no. | Page | Price € |
|---|---|---|
| 15871260 | 39 | 17,50 |
| 15872260 | 39 | 32,00 |
| 15880070 | 44 | 16,00 |
| 15881070 | 44 | 32,00 |
| 15881260 | 41 | 19,90 |
| 15882000 | 44 | 11,00 |
| 15882260 | 41 | 36,50 |
| 15883000 | 44 | 22,00 |
| 15889000 | 44 | 15,50 |
| 15890000 | 44 | 31,50 |
| 15893000 | 44 | 2,90 |
| 15894000 | 44 | 2,90 |
| 15895260 | 44 | 5,50 |
| 15896260 | 44 | 4,90 |
| 15911260 | 43 | 15,90 |
| 15912260 | 43 | 28,50 |
| 15915070 | 48 | 269,00 |
| 15933000 | 51 | 14,90 |
| 15934000 | 50 | 5,20 |
| 15934000 | 51 | 5,20 |
| 15934070 | 50 | 5,20 |
| 15934070 | 51 | 5,20 |
| 15934990 | 50 | 16,40 |
| 15934990 | 51 | 16,40 |
| 15935000 | 50 | 9,30 |
| 15935000 | 51 | 9,30 |
| 15935070 | 50 | 9,30 |
| 15935070 | 51 | 9,30 |
| 15935990 | 50 | 31,80 |
| 15935990 | 51 | 31,80 |
| 15938000 | 50 | 2,90 |
| 15938000 | 51 | 2,90 |
| 15941260 | 50 | 15,40 |
| 15942260 | 50 | 29,80 |
| 15947000 | 50 | 3,10 |
| 15948000 | 50 | 2,90 |
| 15948000 | 51 | 2,90 |
| 15949000 | 50 | 17,90 |
| 15950000 | 48 | 23,00 |
| 15957000 | 51 | 3,10 |
| 15971260 | 49 | 37,00 |
| 15972260 | 49 | 71,00 |
| 15974000 | 49 | 15,00 |
| 15974070 | 49 | 15,00 |
| 15975000 | 49 | 30,00 |

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|---|---|---|
| 15975070 | 49 | 30,00 |
| 15978000 | 49 | 5,10 |
| 15998260 | 49 | 15,50 |
| 15999260 | 49 | 14,00 |
| 17206000 | 54 | 50,70 |
| 17208000 | 55 | 139,30 |
| 17209000 | 55 | 149,00 |
| 17210000 | 55 | 198,00 |
| 17220000 | 55 | 169,00 |
| 17221000 | 55 | 289,00 |
| 17405000 | 54 | 128,20 |
| 17505000 | 57 | 96,80 |
| 17506000 | 57 | 59,00 |
| 17507000 | 57 | 37,80 |
| 17508000 | 57 | 96,80 |
| 18151000 | 56 | 459,00 |
| 18152000 | 56 | 129,00 |
| 18153000 | 56 | 129,00 |
| 18154000 | 56 | 119,00 |
| 18161000 | 56 | 479,00 |
| 18162000 | 56 | 129,00 |
| 18163000 | 56 | 129,00 |
| 18164000 | 56 | 129,00 |
| 18187000 | 57 | 121,30 |
| 18188000 | 57 | 60,40 |
| 18189000 | 57 | 60,90 |
| 18513002 | 24 | 398,00 |
| 18562002 | 24 | 449,00 |
| 19201903 | 26 | 628,90 |
| 19201904 | 26 | 628,90 |
| 19201927 | 26 | 628,90 |
| 19202903 | 28 | 649,00 |
| 19202904 | 28 | 649,00 |
| 19202905 | 26 | 628,90 |
| 19202905 | 28 | 649,00 |
| 19202927 | 28 | 649,00 |
| 19203903 | 30 | 589,00 |
| 19203904 | 30 | 589,00 |
| 19203905 | 30 | 589,00 |
| 19203927 | 30 | 589,00 |
| 19221903 | 26 | 736,80 |
| 19221904 | 26 | 736,80 |
| 19221905 | 26 | 736,80 |
| 19221905 | 28 | 749,00 |
| 19221927 | 26 | 736,80 |

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| 19222903 | 28 | 749,00 |
| 19222904 | 28 | 749,00 |
| 19222927 | 28 | 749,00 |
| 19223903 | 30 | 639,00 |
| 19223904 | 30 | 639,00 |
| 19223905 | 30 | 639,00 |
| 19223927 | 30 | 639,00 |
| 19261903 | 26 | 309,90 |
| 19261904 | 26 | 309,90 |
| 19261905 | 26 | 309,90 |
| 19261927 | 26 | 309,90 |
| 19262903 | 28 | 319,00 |
| 19262904 | 28 | 319,00 |
| 19262905 | 28 | 319,00 |
| 19262927 | 28 | 319,00 |
| 19263903 | 30 | 529,00 |
| 19263904 | 30 | 529,00 |
| 19263905 | 30 | 529,00 |
| 19263927 | 30 | 529,00 |
| 75031260 | 47 | 9,00 |
| 75201003 | 8 | 2,35 |
| 75201004 | 8 | 2,35 |
| 75201005 | 8 | 2,35 |
| 75201006 | 8 | 2,35 |
| 75201007 | 8 | 2,35 |
| 75201008 | 8 | 2,35 |
| 75201009 | 8 | 2,35 |
| 75201027 | 8 | 2,35 |
| 75202003 | 10 | 2,10 |
| 75202004 | 10 | 2,10 |
| 75202005 | 10 | 2,10 |
| 75202027 | 10 | 2,10 |
| 75203001 | 22 | 4,75 |
| 75203001 | 24 | 10,80 |
| 75203003 | 12 | 4,75 |
| 75203004 | 12 | 4,75 |
| 75203005 | 12 | 4,75 |
| 75203027 | 12 | 4,75 |
| 75204003 | 14 | 5,05 |
| 75204004 | 14 | 5,05 |
| 75204005 | 14 | 5,05 |
| 75204027 | 14 | 5,05 |
| 75205003 | 16 | 1,80 |
| 75205004 | 16 | 1,80 |
| 75205005 | 16 | 1,80 |

| Art. no. | Page | Price € |
|---|---|---|
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| 75206003 | 18 | 3,60 |
| 75206004 | 18 | 3,60 |
| 75206005 | 18 | 3,60 |
| 75206027 | 18 | 3,60 |
| 75215004 | 20 | 4,55 |
| 75221003 | 8 | 3,10 |
| 75221004 | 8 | 3,10 |
| 75221005 | 8 | 3,10 |
| 75221027 | 8 | 3,10 |
| 75222003 | 10 | 2,40 |
| 75222004 | 10 | 2,40 |
| 75222005 | 10 | 2,40 |
| 75222027 | 10 | 2,40 |
| 75223001 | 22 | 6,00 |
| 75223003 | 12 | 6,00 |
| 75223004 | 12 | 6,00 |
| 75223005 | 12 | 6,00 |
| 75223027 | 12 | 6,00 |
| 75271003 | 8 | 3,60 |
| 75271004 | 8 | 3,60 |
| 75271005 | 8 | 3,60 |
| 75271006 | 8 | 3,60 |
| 75271007 | 8 | 3,60 |
| 75271008 | 8 | 3,60 |
| 75271009 | 8 | 3,60 |
| 75271027 | 8 | 3,60 |
| 75272003 | 10 | 2,75 |
| 75272004 | 10 | 2,75 |
| 75272005 | 10 | 2,75 |
| 75272027 | 10 | 2,75 |
| 75273001 | 22 | 6,70 |
| 75273003 | 12 | 6,70 |
| 75273004 | 12 | 6,70 |
| 75273005 | 12 | 6,70 |
| 75273027 | 12 | 6,70 |
| 75513002 | 24 | 9,60 |
| 75541260 | 46 | 4,70 |
| 75701260 | 42 | 2,60 |
| 75704000 | 42 | 1,55 |
| 75704000 | 43 | 1,55 |
| 75704070 | 42 | 1,55 |
| 75704070 | 43 | 1,55 |
| 75711260 | 48 | 1,30 |
| 75714070 | 37 | 2,40 |

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| 75721260 | 48 | 1,95 |
| 75730070 | 34 | 2,10 |
| 75730070 | 35 | 2,10 |
| 75731260 | 48 | 3,00 |
| 75731260 | 52 | 3,00 |
| 75734000 | 34 | 1,75 |
| 75734000 | 35 | 1,75 |
| 75734000 | 36 | 1,75 |
| 75734000 | 40 | 1,75 |
| 75741000 | 37 | 2,40 |
| 75741260 | 36 | 2,10 |
| 75751260 | 35 | 1,80 |
| 75751260 | 51 | 1,90 |
| 75761260 | 34 | 2,00 |
| 75765070 | 34 | 1,75 |
| 75765070 | 35 | 1,75 |
| 75765070 | 36 | 1,75 |
| 75765070 | 40 | 1,75 |
| 75781260 | 40 | 3,60 |
| 75791260 | 37 | 2,85 |
| 75807000 | 38 | 1,65 |
| 75807000 | 41 | 1,65 |
| 75809070 | 38 | 1,65 |
| 75809070 | 41 | 1,65 |
| 75822000 | 39 | 2,75 |
| 75824000 | 39 | 2,75 |
| 75831260 | 53 | 6,60 |
| 75841260 | 38 | 4,65 |
| 75851260 | 44 | 1,95 |
| 75861260 | 45 | 3,40 |
| 75871260 | 39 | 2,10 |
| 75880000 | 44 | 1,95 |
| 75881260 | 41 | 2,40 |
| 75882000 | 44 | 1,35 |
| 75889000 | 44 | 1,90 |
| 75911260 | 43 | 1,90 |
| 75934000 | 50 | 0,70 |
| 75934000 | 51 | 0,70 |
| 75934070 | 50 | 0,70 |
| 75934070 | 51 | 0,70 |
| 75934990 | 50 | 2,10 |
| 75934990 | 51 | 2,10 |
| 75941260 | 50 | 1,90 |
| 75971260 | 49 | 4,45 |
| 75974000 | 49 | 1,80 |

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| 75974070 | 49 | 1,80 |
| 75991000 | 34 | 5,10 |
| 75991000 | 35 | 5,10 |
| 75991000 | 36 | 5,10 |
| 75991000 | 37 | 5,10 |
| 75991000 | 38 | 5,10 |
| 75991000 | 39 | 5,10 |
| 75991000 | 40 | 5,10 |
| 75991000 | 41 | 5,10 |
| 75991000 | 42 | 5,10 |
| 75991000 | 43 | 5,10 |
| 75991000 | 44 | 5,10 |
| 75991000 | 44 | 5,10 |
| 75991000 | 45 | 5,10 |
| 75991000 | 46 | 5,10 |
| 75991000 | 47 | 5,10 |
| 75991000 | 48 | 5,10 |
| 75991000 | 48 | 5,10 |
| 75991000 | 48 | 5,10 |
| 75991000 | 49 | 5,10 |
| 75991000 | 50 | 5,10 |
| 75991000 | 51 | 5,10 |
| 75991000 | 52 | 5,10 |
| 75991000 | 53 | 5,10 |
| 75992000 | 34 | 4,70 |
| 75992000 | 34 | 4,70 |
| 75992000 | 34 | 4,70 |
| 75992000 | 35 | 4,70 |
| 75992000 | 35 | 4,70 |
| 75992000 | 35 | 4,70 |
| 75992000 | 36 | 4,70 |
| 75992000 | 36 | 4,70 |
| 75992000 | 37 | 4,70 |
| 75992000 | 37 | 4,70 |
| 75992000 | 38 | 4,70 |
| 75992000 | 38 | 4,70 |
| 75992000 | 39 | 4,70 |
| 75992000 | 39 | 4,70 |
| 75992000 | 40 | 4,70 |
| 75992000 | 40 | 4,70 |
| 75992000 | 41 | 4,70 |
| 75992000 | 41 | 4,70 |
| 75992000 | 42 | 4,70 |
| 75992000 | 42 | 4,70 |
| 75992000 | 43 | 4,70 |

| Art. no. | Page | Price € |
|---|---|---|
| 75992000 | 43 | 4,70 |
| 75992000 | 44 | 4,70 |
| 75992000 | 44 | 4,70 |
| 75992000 | 49 | 4,70 |
| 75992000 | 49 | 4,70 |
| 75992000 | 50 | 4,70 |
| 75992000 | 50 | 4,70 |
| 75992000 | 50 | 4,70 |
| 75992000 | 51 | 4,70 |
| 75992000 | 51 | 4,70 |
| 75992000 | 51 | 4,70 |
| 75998000 | 8 | 10,20 |
| 75998000 | 10 | 10,20 |
| 75998000 | 12 | 10,20 |
| 75998000 | 14 | 10,20 |
| 75998000 | 16 | 10,20 |
| 75998000 | 18 | 10,20 |
| 75998000 | 20 | 10,20 |
| 75998000 | 22 | 10,20 |
| 75998000 | 24 | 10,20 |
| 75998000 | 26 | 10,20 |
| 75998000 | 28 | 10,20 |
| 75998000 | 30 | 10,20 |
| 75999000 | 8 | 15,30 |
| 75999000 | 8 | 15,30 |
| 75999000 | 10 | 15,30 |
| 75999000 | 10 | 15,30 |
| 75999000 | 12 | 15,30 |
| 75999000 | 12 | 15,30 |
| 75999000 | 22 | 15,30 |
| 75999000 | 22 | 15,30 |
| 75999000 | 24 | 15,30 |
| 75999000 | 26 | 15,30 |
| 75999000 | 26 | 15,30 |
| 75999000 | 28 | 15,30 |
| 75999000 | 28 | 15,30 |
| 75999000 | 30 | 15,30 |
| 75999000 | 30 | 15,30 |
| 76201903 | 26 | 5,05 |
| 76201904 | 26 | 5,05 |
| 76201905 | 26 | 5,05 |
| 76201927 | 26 | 5,05 |
| 76202903 | 28 | 5,20 |
| 76202904 | 28 | 5,20 |
| 76202905 | 28 | 5,20 |

| Art. no. | Page | Price € |
|---|---|---|
| 76202927 | 28 | 5,20 |
| 76203903 | 30 | 4,75 |
| 76203904 | 30 | 4,75 |
| 76203905 | 30 | 4,75 |
| 76203927 | 30 | 4,75 |
| 76221903 | 26 | 5,90 |
| 76221904 | 26 | 5,90 |
| 76221905 | 26 | 5,90 |
| 76221927 | 26 | 5,90 |
| 76222903 | 28 | 6,00 |
| 76222904 | 28 | 6,00 |
| 76222905 | 28 | 6,00 |
| 76222927 | 28 | 6,00 |
| 76223903 | 30 | 5,15 |
| 76223904 | 30 | 5,15 |
| 76223905 | 30 | 5,15 |
| 76223927 | 30 | 5,15 |
| 76261903 | 26 | 6,20 |
| 76261904 | 26 | 6,20 |
| 76261905 | 26 | 6,20 |
| 76261927 | 26 | 6,20 |
| 76262903 | 28 | 6,40 |
| 76262904 | 28 | 6,40 |
| 76262905 | 28 | 6,40 |
| 76262927 | 28 | 6,40 |
| 76263903 | 30 | 5,30 |
| 76263904 | 30 | 5,30 |
| 76263905 | 30 | 5,30 |
| 76263927 | 30 | 5,30 |

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Type: 53442 | QualityFlex® | EN | V1 03/16