

Neonflex Side Bend White 48V is a flexible linear lighting solution for clean, continuous lines of white light in architectural applications. With side-bend flexibility, it smoothly navigates tight curves, circular forms, and contours. Ideal for curved facades, circular features, and artistic installations requiring lateral bending.

Engineered for reliable outdoor performance, it delivers consistent white illumination through PWM control with CRI  $\geq 80$ –90 for accurate color rendering. Housed in robust silicone with nylon connector material and rated IP68 and IK08, it withstands UV, saltwater, and extreme temperatures from  $-40^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$  for long-term outdoor durability.

↳ Side-bending – With tight radius options enables seamless integration into curved architectural elements and circular installations.

↳ Durability – IP68/IK08 rating with saltwater resistance and over 70,000 hour lifespan ensures reliable performance in harsh outdoor environments.









## Specifications

### General

|                         |                             |      |
|-------------------------|-----------------------------|------|
| Power Consumption (W/m) | 1010                        | 8    |
|                         | 1121/1128/2222              | 9    |
|                         | 0816/1616                   | 12   |
| Input Voltage (V DC)    | 48                          |      |
| LEDs (/m)               | 1010                        | 120  |
|                         | 0816/1616/1121<br>1128/2222 | 140  |
|                         | 1010                        | 7,14 |
| LED Pitch (mm)          | 0816/1616/1121<br>1128/2222 | 8,33 |
|                         | White                       |      |
|                         | 120                         |      |
| Beam Angle (°)          | 120                         |      |
| LEDs Segment            | 1010                        | 12   |
|                         | 0816/1616/1121<br>1128/2222 | 14   |
|                         | $\geq 80$ , $\geq 90$       |      |
| CRI                     | $\geq 80$ , $\geq 90$       |      |
| Control                 | PWM                         |      |

### Installation Conditions & Lighting Data

|                        |  |     |
|------------------------|--|-----|
| Segment Length (mm)    | 100  |     |
| Bending Radius (mm)    | 0816/1121/1128                                     | 80  |
|                        | 1010/1616  | 150 |
|                        | 2222   | 400 |
| Maximum Run Length (m) | 1010   | 5   |
|                        | 0816/1121/1128<br>1616/2222                        | 20  |
|                        | 70,000 Hours L70 @ 25°C<br>50,000 Hours L70 @ 50°C |     |

### Operating

|                               |            |
|-------------------------------|------------|
| Environment                   | Outdoor    |
| Installation Temperature (°C) | 0 to +50   |
| Working Temperature (°C)      | -40 to +55 |
| Saltwater Resistant           | Yes        |
| UV Resistant                  | Yes        |
| Flame Resistant               | Yes        |

|                  |                        |
|------------------|------------------------|
| IK Rating        | IK08                   |
| IP Rating        | IP68                   |
| Certification    | RoHs/CE/UL/UKCA/CB/FCC |
| Limited Warranty | 5 Years                |

### Physical

|                     |               |             |
|---------------------|---------------|-------------|
| Housing Material    | Silicon       |             |
| Cover Material      | Silicon       |             |
| Connector Material  | Nylon (PA66)  |             |
| Housing Color       | White         |             |
| Cable Color         | Black         |             |
| Connector Type      | Bare Wire/M12 |             |
| Weight (kg/m)       | 1010/0816     | 0,40        |
|                     | 1121/1616     | 0,45        |
|                     | 1128          | 0,55        |
|                     | 2222          | 0,60        |
| Dimensions WxH (mm) | 1010          | 10 x 10     |
|                     | 0816          | 8 x 16      |
|                     | 1121          | 11,5 x 21   |
|                     | 1616          | 16,5 x 16,5 |
|                     | 1128          | 11,5 x 28   |
|                     | 2222          | 22,4 x 22,6 |

## Options

### Color/CCT

- |                                |                                |
|--------------------------------|--------------------------------|
| <input type="checkbox"/> 2200K | <input type="checkbox"/> 4000K |
| <input type="checkbox"/> 2700K | <input type="checkbox"/> 4500K |
| <input type="checkbox"/> 3000K | <input type="checkbox"/> 5000K |
| <input type="checkbox"/> 3500K | <input type="checkbox"/> 6500K |

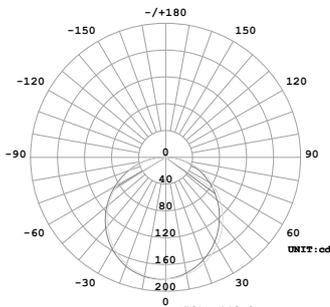
# Lighting Specifications

## Neonflex Side Bend

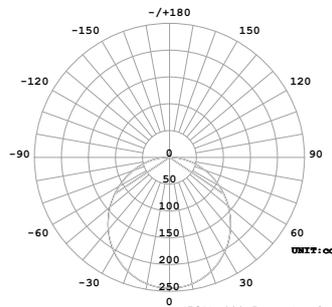
|                | Full White<br>(lm/m) |
|----------------|----------------------|
| 1010 48V 2200K |                      |
| 1010 48V 2700K |                      |
| 1010 48V 3000K | 445                  |
| 1010 48V 3500K |                      |
| 1010 48V 4000K |                      |
| 1010 48V 4500K |                      |
| 1010 48V 5000K |                      |
| 1010 48V 6500K |                      |
| 0816 48V 2200K |                      |
| 0816 48V 2700K |                      |
| 0816 48V 3000K |                      |
| 0816 48V 3500K |                      |
| 0816 48V 4000K |                      |
| 0816 48V 4500K |                      |
| 0816 48V 5000K |                      |
| 0816 48V 6500K |                      |
| 1121 48V 2200K |                      |
| 1121 48V 2700K |                      |
| 1121 48V 3000K | 406                  |
| 1121 48V 3500K |                      |
| 1121 48V 4000K |                      |
| 1121 48V 4500K |                      |
| 1121 48V 5000K |                      |
| 1121 48V 6500K |                      |

|                | Full White<br>(lm/m) |
|----------------|----------------------|
| 1616 48V 2200K | 443                  |
| 1616 48V 2700K |                      |
| 1616 48V 3000K | 497                  |
| 1616 48V 3500K |                      |
| 1616 48V 4000K |                      |
| 1616 48V 4500K |                      |
| 1616 48V 5000K |                      |
| 1616 48V 6500K |                      |
| 1128 48V 2200K |                      |
| 1128 48V 2700K |                      |
| 1128 48V 3000K | 337                  |
| 1128 48V 3500K |                      |
| 1128 48V 4000K |                      |
| 1128 48V 4500K |                      |
| 1128 48V 5000K |                      |
| 1128 48V 6500K |                      |
| 2222 48V 2200K |                      |
| 2222 48V 2700K |                      |
| 2222 48V 3000K | 537                  |
| 2222 48V 3500K |                      |
| 2222 48V 4000K |                      |
| 2222 48V 4500K |                      |
| 2222 48V 5000K |                      |
| 2222 48V 6500K |                      |

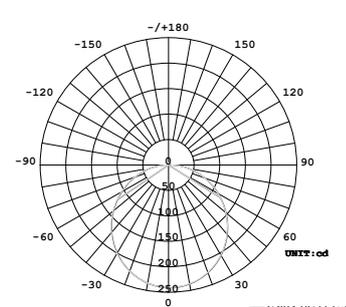
## Photometric Distribution



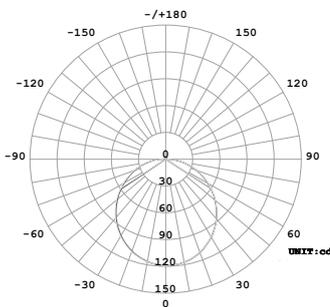
1010 - 112.8° Average Beam Angle



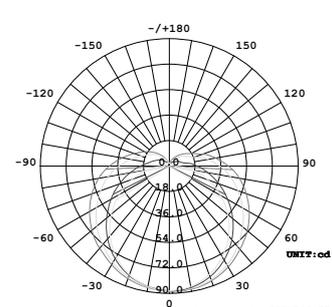
1121 - 111.5° Average Beam Angle



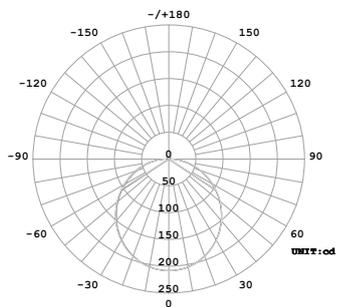
1616 - 113.2° Average Beam Angle



0816 - 113.1° Average Beam Angle

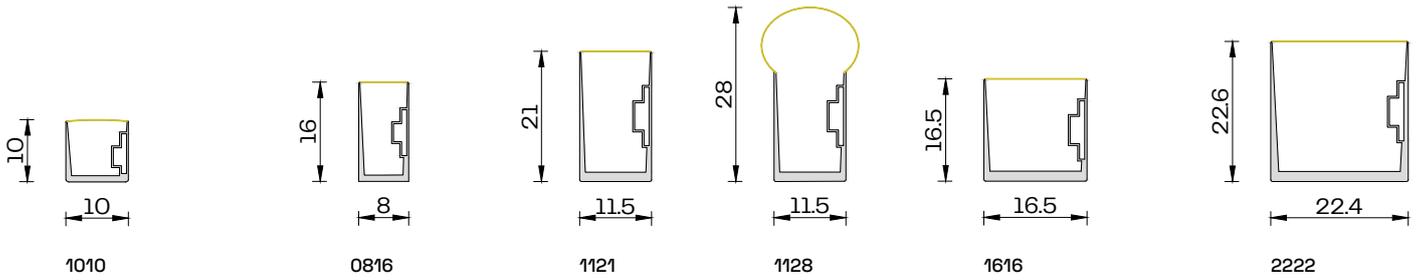


1128 - 143.2° Average Beam Angle

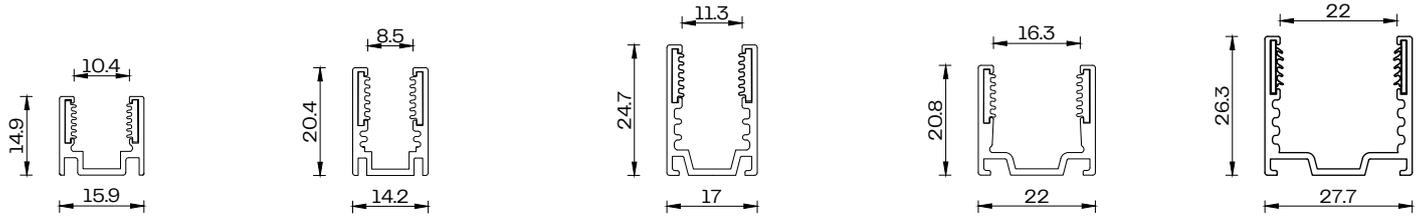


2222 - 112.9° Average Beam Angle

# Dimensions



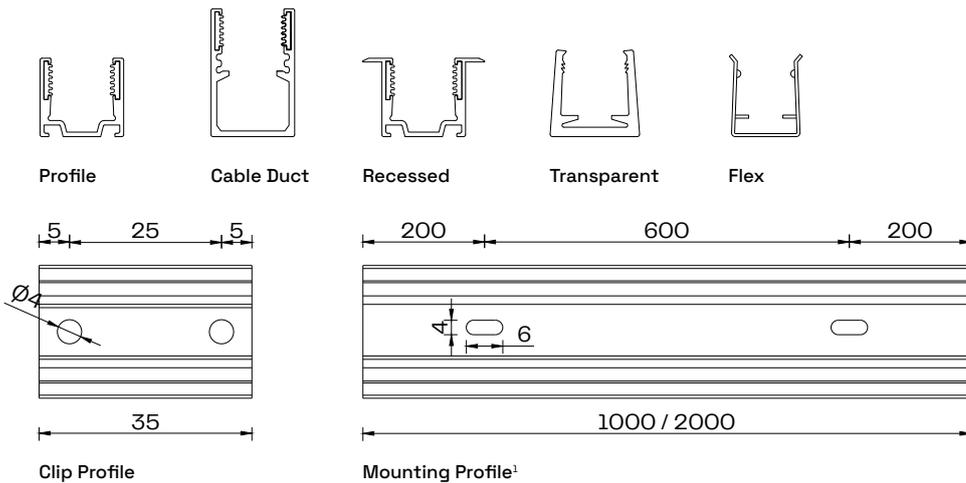
# Accessory Options



| 1010 <sup>1</sup>            | 0816 <sup>1</sup> | 1121 / 1128 <sup>1</sup>     | 1616 <sup>1</sup>            | 2222 <sup>1</sup>           |
|------------------------------|-------------------|------------------------------|------------------------------|-----------------------------|
| Straight Profile             | Straight Profile  | Straight Profile             | Straight Profile             | Straight Profile            |
| Clip Profile                 | Clip Profile      | Clip Profile                 | Clip Profile                 | Clip Profile                |
| Curved Profile               |                   | Straight Profile Cable Duct  | Straight Profile Cable Duct  | Straight Profile Cable Duct |
| Straight Profile Transparent |                   | Straight Profile Transparent | Straight Profile Recessed    | Curved Profile              |
|                              |                   | Curved Profile               | Straight Profile Transparent |                             |
|                              |                   |                              | Curved Profile               |                             |
|                              |                   |                              | Curved Profile Cable Duct    |                             |
|                              |                   |                              | Recessed Profile End Cap     |                             |

<sup>1</sup>Straight Profile is shown. The dimensions shown are not to scale. Please refer to the Dimension Sheet document for additional dimensions.

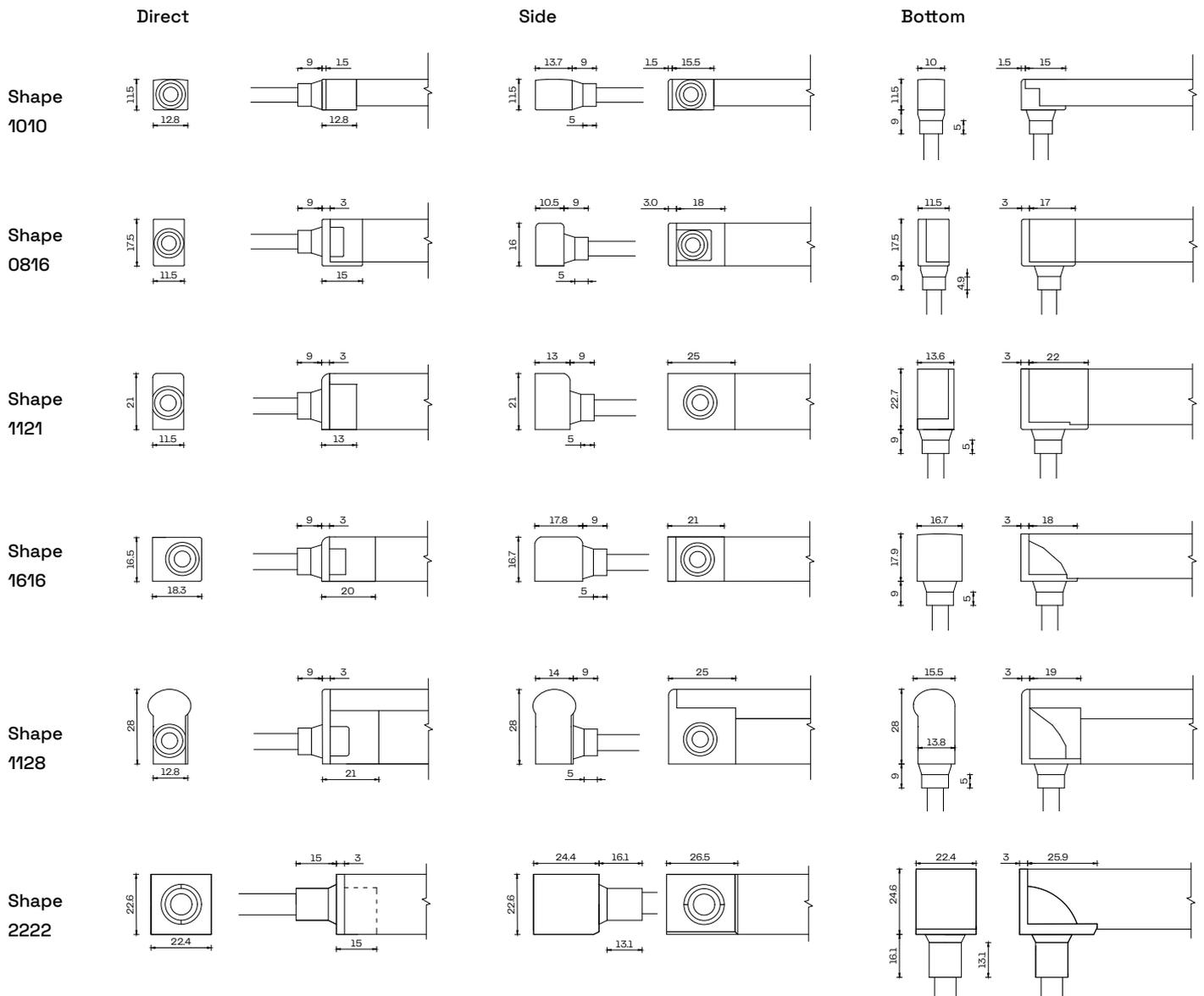
# Profile Specifications



| Physical                     |                     |
|------------------------------|---------------------|
| Profile Material             | Aluminum Alloy 6063 |
| Transparent Profile Material | Polycarbonate       |
| Aluminum Profile finish      | Blank Anodized      |

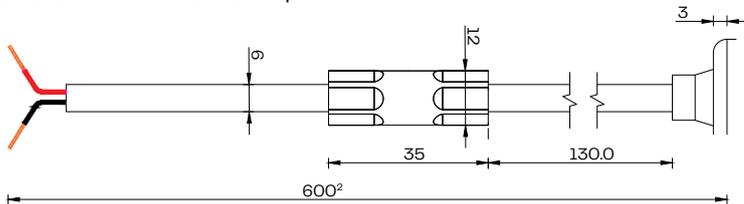
<sup>1</sup>1000mm profile is standard. 2000mm is available to order.

# Cable Entry Options



# Connection Options

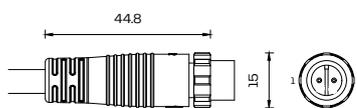
White Bare Wires with waterstop<sup>1</sup>



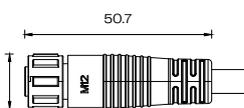
Wire Color

|       |       |
|-------|-------|
| Red   | 48 V+ |
| Black | GND   |

M12 Male Connector<sup>3</sup>



M12 Female Connector



Connector Pin

|       |       |       |
|-------|-------|-------|
| Pin 1 | Red   | 48 V+ |
| Pin 2 | Black | GND   |

<sup>1</sup>Removing the waterstop will void the warranty.

<sup>2</sup>600 mm cable length is standard. Custom length is available on request.

<sup>3</sup>When opting for M12 connector the cable including connector is 300 mm.

# Product References

## Neonflex

| Reference | Description                       |
|-----------|-----------------------------------|
| 3172191   | Neonflex Side Bend 1010 48V 2200K |
| 3172192   | Neonflex Side Bend 1010 48V 2700K |
| 3172193   | Neonflex Side Bend 1010 48V 3000K |
| 3172194   | Neonflex Side Bend 1010 48V 3500K |
| 3172195   | Neonflex Side Bend 1010 48V 4000K |
| 3172196   | Neonflex Side Bend 1010 48V 4500K |
| 3172197   | Neonflex Side Bend 1010 48V 5000K |
| 3172198   | Neonflex Side Bend 1010 48V 6500K |
| 3172159   | Neonflex Side Bend 0816 48V 2200K |
| 3172160   | Neonflex Side Bend 0816 48V 2700K |
| 3172161   | Neonflex Side Bend 0816 48V 3000K |
| 3172162   | Neonflex Side Bend 0816 48V 3500K |
| 3172163   | Neonflex Side Bend 0816 48V 4000K |
| 3172164   | Neonflex Side Bend 0816 48V 4500K |
| 3172165   | Neonflex Side Bend 0816 48V 5000K |
| 3172166   | Neonflex Side Bend 0816 48V 6500K |
| 3172231   | Neonflex Side Bend 1121 48V 2200K |
| 3172232   | Neonflex Side Bend 1121 48V 2700K |
| 3172233   | Neonflex Side Bend 1121 48V 3000K |
| 3172234   | Neonflex Side Bend 1121 48V 3500K |
| 3172235   | Neonflex Side Bend 1121 48V 4000K |
| 3172236   | Neonflex Side Bend 1121 48V 4500K |
| 3172237   | Neonflex Side Bend 1121 48V 5000K |
| 3172238   | Neonflex Side Bend 1121 48V 6500K |

|         |                                   |
|---------|-----------------------------------|
| 3172255 | Neonflex Side Bend 1616 48V 2200K |
| 3172256 | Neonflex Side Bend 1616 48V 2700K |
| 3172257 | Neonflex Side Bend 1616 48V 3000K |
| 3172258 | Neonflex Side Bend 1616 48V 3500K |
| 3172259 | Neonflex Side Bend 1616 48V 4000K |
| 3172260 | Neonflex Side Bend 1616 48V 4500K |
| 3172261 | Neonflex Side Bend 1616 48V 5000K |
| 3172262 | Neonflex Side Bend 1616 48V 6500K |
| 3172239 | Neonflex Side Bend 1128 48V 2200K |
| 3172240 | Neonflex Side Bend 1128 48V 2700K |
| 3172241 | Neonflex Side Bend 1128 48V 3000K |
| 3172242 | Neonflex Side Bend 1128 48V 3500K |
| 3172243 | Neonflex Side Bend 1128 48V 4000K |
| 3172244 | Neonflex Side Bend 1128 48V 4500K |
| 3172245 | Neonflex Side Bend 1128 48V 5000K |
| 3172246 | Neonflex Side Bend 1128 48V 6500K |
| 3172247 | Neonflex Side Bend 2222 48V 2200K |
| 3172248 | Neonflex Side Bend 2222 48V 2700K |
| 3172249 | Neonflex Side Bend 2222 48V 3000K |
| 3172250 | Neonflex Side Bend 2222 48V 3500K |
| 3172251 | Neonflex Side Bend 2222 48V 4000K |
| 3172252 | Neonflex Side Bend 2222 48V 4500K |
| 3172253 | Neonflex Side Bend 2222 48V 5000K |
| 3172254 | Neonflex Side Bend 2222 48V 6500K |

## Accessories

### Straight Profiles

| Reference | Description   |
|-----------|---|
| 3167902   | Neonflex 1010 Straight Profile 1000                 |
| 3167924   | Neonflex 1010 Straight Profile 2000                 |
| 3167932   | Neonflex 1010 Clip Profile                          |
| 3167961   | Neonflex 1010 Straight Profile Transparent          |
| 3167901   | Neonflex 0816 Straight Profile 1000                 |
| 3167928   | Neonflex 0816 Straight Profile 2000                 |
| 3167936   | Neonflex 0816 Clip Profile                          |
| 3167905   | Neonflex 1121/1128 Straight Profile 1000            |
| 3167929   | Neonflex 1121/1128 Straight Profile 2000            |
| 3167939   | Neonflex 1121/1128 Clip Profile                     |
| 3167964   | Neonflex 1121/1128 Straight Profile Cable Duct 1000 |
| 3167965   | Neonflex 1121/1128 Straight Profile Cable Duct 2000 |
| 3167966   | Neonflex 1121/1128 Straight Profile Transparent     |
| 3167904   | Neonflex 1616 Straight Profile 1000                 |

|         |   |
|---------|---|
| 3167926 | Neonflex 1616 Straight Profile 2000             |
| 3167934 | Neonflex 1616 Clip Profile                      |
| 3167967 | Neonflex 1616 Straight Profile Cable Duct 1000  |
| 3167968 | Neonflex 1616 Straight Profile Cable Duct 2000  |
| 3167909 | Neonflex 1616 Straight Profile Recessed 1000    |
| 3167913 | Neonflex 1616 Straight Profile Recessed 2000    |
| 3167960 | Neonflex 1616 Recessed Profile End Cap 2pcs     |
| 3167969 | Neonflex 1616/1717 Straight Profile Transparent |
| 3167970 | Neonflex 2222 Straight Profile 1000             |
| 3167971 | Neonflex 2222 Straight Profile 2000             |
| 3167972 | Neonflex 2222 Clip Profile                      |
| 3167973 | Neonflex 2222 Straight Profile Cable Duct 1000  |
| 3167974 | Neonflex 2222 Straight Profile Cable Duct 2000  |

### Curved Profiles

| Reference | Description                                      |
|-----------|--|
| 3167915   | Neonflex Side Bend 1010 Curved Profile 1000      |
| 3167944   | Neonflex Side Bend 1010 Curved Profile 2000      |
| 3167914   | Neonflex Side Bend 0816 Curved Profile 1000      |
| 3167945   | Neonflex Side Bend 0816 Curved Profile 2000      |
| 3167919   | Neonflex Side Bend 1121/1128 Curved Profile 1000 |
| 3167946   | Neonflex Side Bend 1121/1128 Curved Profile 2000 |

|         |  |
|---------|--|
| 3167917 | Neonflex Side Bend 1616 Curved Profile 1000            |
| 3167931 | Neonflex Side Bend 1616 Curved Profile 2000            |
| 3167955 | Neonflex Side Bend 1616 Curved Profile Cable Duct 1000 |
| 3167956 | Neonflex Side Bend 1616 Curved Profile Cable Duct 2000 |
| 3167957 | Neonflex Side Bend 2222 Curved Profile 1000            |
| 3167980 | Neonflex Side Bend 2222 Curved Profile 2000            |