For the past four decades, Focal has been stamping its unique sound signature on high-end speaker drivers and acoustic loudspeakers. The brand’s values are innovation and performance, excellence and pleasure. We are renowned the world over for our exclusive technologies. The result of this technological heritage is a sound reproduction imbued with clarity, power and a natural quality, presenting you with the best products in their category.

With the Focal Inside range, we deliver Plug & Play solutions that are perfectly suited to and easy to install in a large number of car models. Create the sound experience of your dreams.
01. FOCAL INSIDE 7

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01. FOCAL INSIDE
One car, one audio solution

The Focal Inside range is aimed at all drivers who wish to replace their original car audio system with a quality hi-fi Plug & Play solution that is easy to install without modifying the environment. Different configurations are available for each car make (40 makes) and each model (more than 700 vehicle models), and the mounting accessories are included in each kit. For optimal performance, amplification solutions complete our offering. Configure the solution of your dreams in just a few clicks.

www.focal-inside.com
C-Class
E-Class
S-Class
GLC
<table>
<thead>
<tr>
<th>Type</th>
<th>Central speaker with eCall function</th>
<th>2-way coaxial kit</th>
<th>2-way surround coaxial kit</th>
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<td>Neodymium</td>
<td>Neodymium</td>
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<td>Cone</td>
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<td>Compact 3/4&quot; (20.5mm) tweeter</td>
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<td>80W</td>
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<tr>
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<td>Sensitivity (2.83 V/1m)</td>
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<td>150Hz - 20kHz</td>
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<td>Supplied with mounting accessories</td>
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<td>Supplied with mounting accessories</td>
</tr>
</tbody>
</table>

**icc MBZ 100**  
**IC MBZ 100**  
**ICR MBZ 100**  
**IS MBZ 100**

If your vehicle is compatible, choose an amplified installation to offer the best performance. We suggest:

- 1 x Impulse 4.320
- 1 x Front kit*
- 1 x ISUB MBZ 2
- 1 x Y-ISO MBZ
- 1 x IW IMP 2.2
- 1 x Power supply

---

**FOCAL SUGGESTS**

You can install speaker drivers on their own, or choose an amplified installation for a complete experience. We suggest:

- 1 x Impulse 4.320
- 1 x Front kit*
- 1 x ISUB MBZ 2
- 1 x Y-ISO MBZ
- 1 x IW IMP 2.2
- 1 x Power supply

---

**FOR A COMPLETE EXPERIENCE**

If your vehicle is compatible, replace your central, rear and surround speaker drivers, too!

* Check the models required at: www.focal-inside.com
BMW & MINI

3-door
5-door
Countryman
Clubman
Cabrio
Roadster
Convertible
Paceman

1 Serie
2 Serie
3 Serie
4 Serie
5 Serie
6 Serie
7 Serie
i3
i8

24
BMW X1
BMW X2
BMW X3
BMW X4
BMW X5
BMW X6
BMW X7
<table>
<thead>
<tr>
<th>Type</th>
<th>2-way coaxial kit</th>
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<td>4&quot; (100mm)</td>
<td>4&quot; (100mm)</td>
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<td>Neodymium</td>
<td>Neodymium</td>
<td>Neodymium</td>
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</tr>
<tr>
<td>Cone</td>
<td>Black Polyglass</td>
<td>Black Polyglass</td>
<td>Black Polyglass</td>
<td>Black Polyglass</td>
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<tr>
<td>Impedance</td>
<td>4Ω</td>
<td>4Ω</td>
<td>4Ω</td>
<td>4Ω</td>
</tr>
<tr>
<td>Tweeter</td>
<td>Aluminium/ Magnesium inverted dome tweeter</td>
<td>Aluminium/ Magnesium inverted dome tweeter</td>
<td>Aluminium/ Magnesium inverted dome tweeter</td>
<td>Aluminium/ Magnesium inverted dome tweeter</td>
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<td>Max. power</td>
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<td>80W</td>
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<tr>
<td>Nom. power</td>
<td>40W RMS</td>
<td>40W RMS</td>
<td>40W RMS</td>
<td>40W RMS</td>
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<tr>
<td>Sensitivity (2.83 V/1m)</td>
<td>89.5dB</td>
<td>89.5dB</td>
<td>89.5dB</td>
<td>89.5dB</td>
</tr>
<tr>
<td>Frequency response</td>
<td>90Hz - 23kHz</td>
<td>80Hz - 23kHz</td>
<td>80Hz - 23kHz</td>
<td>80Hz - 23kHz</td>
</tr>
<tr>
<td>Accessories</td>
<td>Supplied with mounting accessories</td>
<td>Supplied with mounting accessories</td>
<td>Supplied with mounting accessories</td>
<td>Supplied with mounting accessories</td>
</tr>
</tbody>
</table>

For BMW X5 and BMW X6 models, KIAC 1122 brackets (spacers) need to be used.

KIAC 1122
FOCAL SUGGESTS

You can install speaker drivers on their own, or choose an amplified installation to offer the best speaker driver performance.

We suggest:

1 x Impulse 4.320
1 x Front kit*
2 x ISUB BMW 4
1 x BMW IMP-2.1
1 x Power supply

FOR A COMPLETE EXPERIENCE

If your vehicle is compatible, replace your central, rear and surround speaker drivers, too!

1 x Front kit*
1 x Rear kit*
1 x ISUB BMW 4
1 x ICC BMW 100*
2 x ISUB BMW 4

* Check the models required at:
www.focal-inside.com

FOR A COMPLETE EXPERIENCE

If your vehicle is compatible, replace your central, rear and surround speaker drivers, too!

1 x Front kit*
1 x Rear kit*
1 x Surround Kit*
1 x ICC BMW 100*
2 x ISUB BMW 4

* Check the models required at:
www.focal-inside.com
IC FORD 165 | IC FORD 690 | IS FORD 165
---|---|---
**Type** | 2-way coaxial kit | 2-way coaxial kit | 2-way component kit
**Diameter** | 6 1/2" (165mm) | 6 x 9" (150 x 230mm) | 6 1/2" (165mm)
**Magnet** | Ferrite | Ferrite | Ferrite
**Cone** | Black Polyglass | Black Polyglass | Black Polyglass
**Impedance** | 4Ω | 4Ω | 4Ω
**Tweeter** | Aluminium inverted dome tweeter | Aluminium inverted dome tweeter | Aluminium inverted dome tweeter
**Max. power** | 120W | 150W | 120W
**Nom. power** | 60W RMS | 75W RMS | 60W RMS
**Sensitivity (2.83 V/1m)** | 92.5dB | 92dB | 91.7dB
**Frequency response** | 60Hz - 20kHz | 60Hz - 20kHz | 60Hz - 20kHz
**Accessories** | Supplied with mounting accessories | Supplied with mounting accessories | Supplied with mounting accessories

IC FORD 690 | IS FORD 165
---|---
**Type** | 2-way component kit | 2-way component kit
**Diameter** | 6 x 9" (150 x 230mm) | 6 x 9" (150 x 230mm)
**Magnet** | Ferrite | Ferrite
**Cone** | Black Polyglass | Black Polyglass | Black Polyglass
**Impedance** | 4Ω | 4Ω | 4Ω
**Tweeter** | Aluminium inverted dome tweeter | Aluminium inverted dome tweeter | Aluminium inverted dome tweeter
**Max. power** | 150W | 120W | 150W
**Nom. power** | 75W RMS | 60W RMS | 75W RMS
**Sensitivity (2.83 V/1m)** | 92.3dB | 92dB | 91.7dB
**Frequency response** | 50Hz - 20kHz | 50Hz - 20kHz | 50Hz - 20kHz
**Accessories** | Supplied with mounting accessories | Supplied with mounting accessories | Supplied with mounting accessories

---

**FOCAL SUGGESTS**

You can install speaker drivers on their own, or choose an amplified installation to offer the best performance. We suggest:

- 1 x Impulse 4.320
- 1 x Front kit*
- 1 x Y-ISO FORD*
- 1 x IMP EXT150
- 1 x Power supply

* Check the models required at: www.focal-inside.com
---

**FOR A COMPLETE EXPERIENCE**

If your vehicle is compatible, replace your rear speaker drivers, too!
Mii
Arosa
Ibiza
Leon
Altea
Toledo

SEAT

ŠKODA

Volkswagen

Seat

Fabia
Octavia
Superb
Roomster

Škoda

Lupo
Upli
Polo
Beetle
Sirocco
EOS
Golf
Lavida

Volkswagen

Bora
Vento
Jetta
Passat
Tiguan
Touareg
Amarok

SEAT, ŠKODA & VOLKSWAGEN
IC VW 165  |  IS VW 155  |  IS VW 165
---|---|---
Type          | 2-way coaxial kit  | 2-way component kit  | 2-way component kit  
Diameter      | 61/2” (165mm)  | 6” (155mm)  | 61/2” (165mm)  
Magnet        | Ferrite  | Ferrite  | Ferrite  
Cone          | Black Polyglass  | Black Polyglass  | Black Polyglass  
Impedance     | 2Ω  | 2Ω  | 2Ω  
Tweeter       | Aluminium inverted dome tweeter  | Aluminium inverted dome tweeter  | Aluminium inverted dome tweeter  
Max. power     | 120W  | 100W  | 120W  
Nom. power     | 60W RMS  | 50W RMS  | 60W RMS  
Sensitivity (2.83 V/1m) | 93.7dB  | 92dB  | 93.7dB  
Frequency response | 60Hz - 20kHz  | 70Hz - 20kHz  | 60Hz - 20kHz  
Accessories   | Supplied with mounting accessories  | Supplied with mounting accessories  | Supplied with mounting accessories  

IS VW 180  
2-way component kit  
7” (180mm)  
Ferrite  
Black Polyglass  
2Ω  
Aluminium inverted dome tweeter  
150W  
75W RMS  
94dB  
50Hz - 20kHz  
Supplied with mounting accessories  

FOCAL SUGGESTS

You can install speaker drivers on their own, or choose an amplified installation to offer the best performance. We suggest:

- 1 x Impulse 4.320
- 1 x Front kit*
- 1 x Rear kit*
- 1 x Y-ISO VW**
- 1 x IMP EXT150
- 1 x Power supply

FOR A COMPLETE EXPERIENCE

You can install speaker drivers on their own, or choose an amplified installation to offer the best performance. We suggest:

- 1 x Impulse 4.320
- 1 x Front kit*
- 1 x Rear kit*
- 1 x Y-ISO VW**
- 1 x IMP EXT150
- 1 x Power supply

If your vehicle is compatible, replace your rear speaker drivers, too!

* Check the models required at: www.focal-inside.com
IC TOY 165  IS TOY 690  IS TOY 165

**Type**
- 2-way coaxial kit
- 2-way elliptical component kit
- 2-way component kit

**Diameter**
- 6½” (165mm)
- 6 x 9” (150 x 230mm)
- 6½” (165mm)

**Magnet**
- Ferrite

**Cone**
- Black Polyglass
- Black Polyglass

**Impedance**
- 4Ω

**Tweeter**
- Aluminium inverted dome tweeter

**Max. power**
- 120W

**Nom. power**
- 60W RMS

**Sensitivity (2.83 V/1m)**
- 92.5dB

**Frequency response**
- 60Hz - 20kHz

**Accessories**
- Supplied with mounting accessories

---

IS TOY 165 TWU

**Type**
- 2-way component kit (with Universal tweeters)

**Diameter**
- 6½” (165mm)

**Magnet**
- Ferrite

**Cone**
- Black Polyglass

**Impedance**
- 4Ω

**Tweeter**
- Aluminium/Magnesium inverted dome tweeter

**Max. power**
- 120W

**Nom. power**
- 60W RMS

**Sensitivity (2.83 V/1m)**
- 91.7dB

**Frequency response**
- 60Hz - 20kHz

**Accessories**
- Supplied with mounting accessories

---

FOCAL SUGGESTS

You can install speaker drivers on their own, or choose an amplified installation to offer the best performance. We suggest:

1 x Impulse 4.320
1 x Front kit*
1 x Rear kit*
1 x Y-ISO TOY**
1 x IMP EXT150
1 x Power supply

If your vehicle is compatible, replace your rear speaker drivers, too!

* Check the models required at: www.focal-inside.com
<table>
<thead>
<tr>
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<th>IC RNS 165</th>
<th>IS RNI 690</th>
<th>IS REN 130</th>
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<tr>
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<td>Ferrite</td>
<td>Ferrite</td>
<td>Ferrite</td>
<td>Neodymium</td>
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<tr>
<td>Cone</td>
<td>Polyglass</td>
<td>DFS® fiberglass</td>
<td>Polyglass</td>
<td>Polyglass</td>
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<tr>
<td>Impedance</td>
<td>4Ω</td>
<td>4Ω</td>
<td>4Ω</td>
<td>4Ω</td>
</tr>
<tr>
<td>Tweeter</td>
<td>Aluminium inverted dome tweeter</td>
<td>Aluminium inverted dome tweeter</td>
<td>Aluminium inverted dome tweeter</td>
<td>Aluminium inverted dome tweeter</td>
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<tr>
<td>Max. power</td>
<td>120W</td>
<td>120W</td>
<td>160W</td>
<td>110W</td>
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<td>Nom. power</td>
<td>60W RMS</td>
<td>60W RMS</td>
<td>80W RMS</td>
<td>50W RMS</td>
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<td>Sensitivity (2.83 V/1m)</td>
<td>91.8dB</td>
<td>91dB</td>
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<td>Frequency response</td>
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<td>55Hz - 2kHz</td>
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<td>Supplied with mounting accessories</td>
<td>Supplied with mounting accessories</td>
<td>Supplied with mounting accessories</td>
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</tbody>
</table>

**IS RNS 165**
- 2-way component kit
- 6-1/2” (165mm)
- Neodymium
- Polyglass
- 4Ω
- Aluminium inverted dome tweeter
- 120W
- 60W RMS
- 92.7dB
- 60Hz - 28kHz
- Supplied with mounting accessories

---

**FOCAL SUGGESTS**

You can install speaker drivers on their own, or choose an amplified installation to offer the best performance. We suggest:
- 1 x Impulse 4.320
- 1 x Front kit*
- 1 x Rear kit*
- 1 x Y-ISO REN/NIS
- 1 x IMP EXT150
- 1 x Power supply

---

**FOR A COMPLETE EXPERIENCE**

If your vehicle is compatible, replace your rear speaker drivers, too!

* Check the models required at: www.focal-inside.com
### Tweeter

<table>
<thead>
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<th>IFP 207</th>
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<td>61/2” (165mm)</td>
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<td>Ferrite</td>
<td>Ferrite</td>
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<tr>
<td>Cone</td>
<td>Black Polyglass</td>
<td>Black Polyglass</td>
<td>Black Polyglass</td>
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<td>Impedance</td>
<td>4Ω</td>
<td>4Ω</td>
<td>4Ω</td>
</tr>
<tr>
<td>Tweeter</td>
<td>Aluminium/Magnesium inverted dome tweeter</td>
<td>Aluminium/Magnesium inverted dome tweeter</td>
<td>TNB Aluminium/Magnesium inverted dome tweeter</td>
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<td>140W</td>
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<tr>
<td>Nom. power</td>
<td>70W RMS</td>
<td>70W RMS</td>
<td>70W RMS</td>
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<tr>
<td>Sensitivity (2.83 V/1m)</td>
<td>92.2dB</td>
<td>92.6dB</td>
<td>92.7dB</td>
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<tr>
<td>Frequency response</td>
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<td>60Hz - 20kHz</td>
<td>70Hz - 25kHz</td>
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<td>Accessories</td>
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<td>Supplied with mounting accessories</td>
<td>Supplied with mounting accessories</td>
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</tbody>
</table>

### Focal Suggests

You can install speaker drivers on their own, or choose an amplified installation to offer the best performance. We suggest:

- 1 x Impulse 4.320
- 1 x Front kit* 
- 1 x Rear kit*
- 1 x Y:ISO PSA
- 1 x IMP EXT150
- 1 x Power supply

* Check the models required at: [www.focal-inside.com](http://www.focal-inside.com)

---

**FOR A COMPLETE EXPERIENCE**

If your vehicle is compatible, replace your rear speaker drivers, too!
Road Glide
Electra Glide
Street Glide
Batwing
Fairings
For Road Glide models from 1998 to 2013, the KIAC 1135 needs to be used.

<table>
<thead>
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<td>6 1/2&quot; (165mm)</td>
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<td>Magnet</td>
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<td>Ferrite</td>
</tr>
<tr>
<td>Cone</td>
<td>Fiberglass DFS®</td>
<td>Fiberglass DFS®</td>
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<tr>
<td>Impedance</td>
<td>4Ω</td>
<td>4Ω</td>
</tr>
<tr>
<td>Tweeter</td>
<td>Compression inverted dome tweeter</td>
<td>Compression inverted dome tweeter</td>
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<tr>
<td>Max. power</td>
<td>160W</td>
<td>160W</td>
</tr>
<tr>
<td>Nom. power</td>
<td>80W RMS</td>
<td>80W RMS</td>
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<tr>
<td>Sensitivity (2.83 V/m)</td>
<td>91dB</td>
<td>91dB</td>
</tr>
<tr>
<td>Frequency response</td>
<td>70Hz - 22kHz</td>
<td>70Hz - 22kHz</td>
</tr>
<tr>
<td>Accessories</td>
<td>Supplied with mounting accessories</td>
<td>Supplied with mounting accessories</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Type</th>
<th>2-way component kit</th>
<th>2-way component kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter</td>
<td>6 1/2&quot; (165mm)</td>
<td>6 1/2&quot; (165mm)</td>
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<tr>
<td>Magnet</td>
<td>Ferrite</td>
<td>Ferrite</td>
</tr>
<tr>
<td>Cone</td>
<td>K2</td>
<td>K2</td>
</tr>
<tr>
<td>Impedance</td>
<td>2Ω</td>
<td>2Ω</td>
</tr>
<tr>
<td>Tweeter</td>
<td>M-profile compression tweeter</td>
<td>M-profile compression tweeter</td>
</tr>
<tr>
<td>Max. power</td>
<td>250W</td>
<td>250W</td>
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<tr>
<td>Nom. power</td>
<td>125W RMS</td>
<td>125W RMS</td>
</tr>
<tr>
<td>Sensitivity (2.83 V/m)</td>
<td>92.5dB</td>
<td>92.5dB</td>
</tr>
<tr>
<td>Frequency response</td>
<td>60Hz - 2kHz</td>
<td>60Hz - 2kHz</td>
</tr>
<tr>
<td>Accessories</td>
<td>Supplied with mounting accessories</td>
<td>Supplied with mounting accessories</td>
</tr>
</tbody>
</table>
To enjoy impactful bass, our engineers have designed the ISUB TWIN and PSB200 passive subwoofers. The ISUB TWIN are ultra-compact, can handle up to 100 watts RMS each, and are easy to install beneath the seats. They are optimised to be connected to the Impulse 4.320 amplifier (see chapter 3) but also combine very well with the Focal Inside solutions and traditional Focal products. They can be screwed to the floor or fitted using the self-adhesive strips supplied. PSB200 is compact and robust, offering 250 watts of power and sliding easily into a car boot. Brackets, screws and a set of velcro strips are supplied to mount your way.
**PSB200**
- **Type**: Compact passive subwoofer
- **Impedance**: 4Ω
- **Max. power (2Ω)**: 250W
- **Max. power (bridged 4Ω)**: 150W RMS
- **Sensitivity (2.83 V / 1m)**: 83dB
- **Frequency response**: 45Hz - 150Hz
- **Accessories**: Velcro, screws, mounting accessories
- **Weight**: 15.4lbs (7kg)
- **Dimensions (WxHxD)**: 19¼ x 4¼ x 12" (489 x 109 x 304mm)

**ISUB TWIN**
- **Type**: Ultracompact passive subwoofers
- **Impedance**: 2 x 2Ω
- **Max. power (2Ω)**: 2 x 200W
- **Max. power (bridged 4Ω)**: 2 x 100W RMS
- **Sensitivity (2.83 V / 1m)**: 83dB
- **Frequency response**: 50Hz - 150Hz
- **Accessories**: Velcro
- **Weight**: 2 x 5.9lbs (2 x 2.7kg)
- **Dimensions (WxHxD)**: 10⅛ x 3⅛ x 9½" (260 x 80 x 240mm)

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**FOCAL SUGGESTS**
You can install speaker drivers on their own, or choose an amplified installation to offer the best performance. We suggest:

- 1 x Impulse 4.320
- 1 x ISUB TWIN
- 1 x Y-ISO BRAND
- 1 x IW IMP-23
- 1 x Power supply

---

**FOR A COMPLETE EXPERIENCE**
If your vehicle is compatible, replace your rear and surround speaker drivers, too!

* Check the models required at: www.focal-inside.com
To benefit from a dynamic and efficient system, the Impulse 4.320 digital amplifier and Focal Inside cables complete our solutions. Impulse 4.320 is compact, with 4 channels each delivering 55 watts and enabling the speaker drivers to express their full potential. Optimising the connections between car radio, electronics and acoustics, the dedicated Focal Inside cables play their own essential role in your audio architecture. Adaptation cables, extension cables, connection cables, direct power cables, impedance simulator, and more: they guarantee the performance and safety of your installation.

03. CABLES & ELECTRONICS
**IMPULSE 4.320**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>D-Class ultra-compact Amplifier - 4/3/2 channels</td>
</tr>
<tr>
<td>CEA power (4Ω)</td>
<td>4 x 55W RMS</td>
</tr>
<tr>
<td>Max. power (2 Ω)</td>
<td>4 x 80W RMS</td>
</tr>
<tr>
<td>Max. power (bridged 4 Ω)</td>
<td>2 x 160W RMS</td>
</tr>
<tr>
<td>Crossovers</td>
<td>Activable/deactivable fixed at 75Hz on channels 1/2</td>
</tr>
<tr>
<td></td>
<td>Configurable from 40Hz-200Hz on channels 3/4</td>
</tr>
<tr>
<td>Copy mode</td>
<td>4CH/2CH</td>
</tr>
<tr>
<td>Setting</td>
<td>Adjustable phase 0/180° on channel 3/4</td>
</tr>
<tr>
<td>Protections</td>
<td>Short circuit / Over-current / Reverse polarity / DC / Voltage drop / Heat protection</td>
</tr>
<tr>
<td>Weights</td>
<td>1.2lbs (550g)</td>
</tr>
<tr>
<td>Dimensions (WxHxD)</td>
<td>6⅛ x 1⅛ x 2⅔&quot; (175 x 47 x 66.5mm)</td>
</tr>
</tbody>
</table>

Find the cables designed for your vehicle at: [www.focal-inside.com](http://www.focal-inside.com)
Combining performance and design, Focal’s collections are a revelation, awakening the emotions through a supreme listening experience. And it doesn’t matter where you are. At home with traditional and in-wall/in-ceiling loudspeakers, Home Cinema systems and open-back headphones; on the go with closed-back headphones and in-car kits; in the studio with professional monitors; and even at sea with specialist yacht solutions.
Enjoy an incredible sound experience

Find our products in 10,000 retail partner stores across the world, but also in our Focal Powered by Naim shops. These shops, dedicated to our brands, invite you to dive into our world, our savoir-faire and immerse yourself in the Focal & Naim sound.

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Create your sound experience on:

www.focal-inside.com

Find all our installation videos on:

YouTube