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**ANTENNA**  
MAKES THE  
DIFFERENCE

**GENERAL CATALOGUE 2021**



antenne  
**CALEARO®**  
*Antennae Magister*

# **WE ARE “ANTEMNAE MAGISTER”: THE MASTERS OF THE ANTENNA.**

*Calearo Antenne is a company that was born together with a family: the one created by Alessio Calearo and Lucia Ciman, who, at the end of the 1950s, devoted their energies to lay the foundations what is the industrial group we know today.*

*Since 1957 our goal and our values have remained unaffected, we have maintained the same passion and the same energy that my parents have transmitted to us and that led Calearo Antenne until today.*

*“Execute our business using the most advanced technologies to produce the leading solutions in the field of connectivity, bearing in mind that there are people be-*

*hind this technology”: this is the first value that my father chose for its company. This is reason why our strength is in the team, a group made up of all the people who share our experience, our passion and our commitment. The beating heart of Calearo Antenne are the those who work together every day and who recognize the success of the company as a common goal.*

*It has been more than sixty year since we first look into the connectivity world. Since then, we have made signal transmission our flag. We have built our research centre, the brain of our group, which, thanks to the unceasing dialogue with several Italian and international universities,*

*guarantees us to be at the forefront of technology. We have grown in terms of numbers, experience and competence. Today we are proud to supply over 20 car manufacturers directly.*

*We are a family business with international vision. Our heart is in Italy and our gaze is always towards new horizons.*

*We want to be the leaders in the production of antennas and connectivity systems for cars, and we do it as ambassadors of Made in Italy in the world. We like to consider limits as opportunities, technological excellence as a starting point, and the constant effort towards technological evolution as a star to aim for.*



*Nevertheless, we have never forgotten where we started from, nor who accompanied us on our journey, all the people who have contributed to make our company great over the years.*

*The world moves rapidly and Calearo Antenne keeps up with it. We are ready to face all unexplored challenges, offering dedicated solutions to our partners globally, joining forces with them in developing new technologies in their specific field. We are "Antemnae Magister": the masters of the antennas.*



**Massimo Calearo Ciman**  
Chairman





## **CALEARO** **ANTENNE**

### **Vision**

*Magister Antemnae: being best in class in connectivity.  
Becoming excellence in your target market.*

### **Mission**

*Being a reference supplier, with profitability,  
of highly innovative solutions for market leaders  
and some niches in the world of connectivity*



## RESEARCH, DEVELOPMENT AND INNOVATION

*Evolution plays a special role for Calearo Antenne. Research and development are both a commercial necessity and a constant investment: a look into the future, to remain at the forefront of technology and lead the sector.*

*Calearo Antenne has always boasted flexibility and the ability to react quickly to market demands, qualities that allow us to face the challenges that the globalized world raises today, and to anticipate those of tomorrow.*

**All this is CE.R.CA:  
Calearo Research Center  
(Centro di Ricerca Calearo).**

*The Calearo Research and Development Center, or Ce.R.Ca., is the fulcrum, the engine and the technological soul of Calearo, it is the “place” for the construction of competitiveness from which the leadership of the company and the continuous drive to the future, to innovation and experimentation.*

*Inaugurated in 2005, the Ce.R.Ca. today employs about 50 highly qualified researchers including PhDs, engineers, physicists and specialized technicians dedicated to research and development for all phases of product advancement, from design to production, working in synergy with national and foreign universities and research centres.*



## CERTIFICATIONS

*For Calearo, continuous improvement is a recurrent activity aimed to increase performance.*

*The path of defining objectives and identifying opportunities of improvement is a continuous process that apply the results and conclusions of the audit, data analysis, management review and other dedicated means. It generally involves corrective or preventive actions.*

*Performance is a measurable result that can refer to something qualitative or quantitative, being management activities, processes, products, services, system or organization.*

*Continuous improvement is nothing more than the process of becoming a more effective organization, an incremental path made up of many small steps towards a better professional future.*



## **CALEARO** **IN THE WORLD**

*Calearo Antenne defines itself as a “glocal” company, which operates in a globalized world, but draws energy from its roots deep in Italian ingenuity.*

*The choice that has always distinguished us is to be constantly in touch with our customers and their markets. For this reason, over the years, we strived to expand our commercial network all over the world.*

*To be present at the hotspots of global automotive manufacturing is a central point for us.*

*Technology evolves fast, and so do the increasingly peculiar demands of the market. Our factories in Italy, Slovakia, Tunisia and China allow us to respond efficiently and effectively to all the market's needs.*



**BROADCASTING 11**

**TELEMATICS 35**

**CRITICAL 43**

**BUILDINGS 55**

**SERVICE BOX 61**

**ADAPTERS & CABLES 69**

**ACCESSORIES & SPARE PARTS 77**

**AUDIO & VIDEO 83**

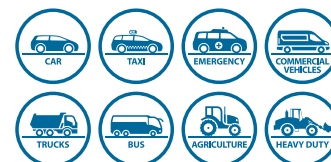
|                      |    |
|----------------------|----|
| SHARK 3 .....        | 12 |
| SHARK 2 .....        | 13 |
| SHARK 2 CUSTOM ..... | 15 |
| SHARK 1 .....        | 17 |
| 16 V .....           | 18 |

|                         |    |
|-------------------------|----|
| FRONT ROOF .....        | 24 |
| FLEXI .....             | 26 |
| TELESCOPIC .....        | 28 |
| INTERNAL MOUNTING ..... | 30 |
| FOIL .....              | 33 |



|                      |    |
|----------------------|----|
| RADOME COMPACT ..... | 36 |
| SHARK 2 .....        | 37 |
| ON ROOF .....        | 38 |
| MAGNETIC .....       | 38 |

|                   |    |
|-------------------|----|
| LUNEX .....       | 39 |
| INTERNAL .....    | 40 |
| LOCATIONING ..... | 41 |



|                          |    |
|--------------------------|----|
| RADOME .....             | 44 |
| EMERGENCY SERVICES ..... | 45 |
| 16 V .....               | 46 |

|               |    |
|---------------|----|
| SHARK 2 ..... | 49 |
| RSA .....     | 50 |
| QUAD .....    | 52 |



|                  |    |
|------------------|----|
| ARRAY .....      | 56 |
| FIBERGLASS ..... | 57 |

|               |    |
|---------------|----|
| COMPACT ..... | 58 |
| MODEM .....   | 59 |



|                  |    |
|------------------|----|
| DAB & PLAY ..... | 62 |
| SPLITTER .....   | 64 |

|                   |    |
|-------------------|----|
| LOCATIONING ..... | 66 |
| RADIO .....       | 67 |

|                        |    |
|------------------------|----|
| ADAPTERS .....         | 70 |
| EXTENSION CABLES ..... | 73 |

|                           |    |
|---------------------------|----|
| TABLE OF CONNECTORS ..... | 75 |
|---------------------------|----|

|                                      |    |
|--------------------------------------|----|
| HOLE ADAPTERS .....                  | 78 |
| HOUSING FAKRA .....                  | 78 |
| ROD FOR SINGLE FUNCTION ANTENNAS ... | 79 |

|                                      |    |
|--------------------------------------|----|
| ROD FOR MULTIFUNCTIONAL ANTENNAS ... | 80 |
| ROD FOR CRITICAL ANTENNAS .....      | 81 |
| ROD FOR GSM ANTENNAS .....           | 81 |

|                        |    |
|------------------------|----|
| RADIO .....            | 84 |
| SPEAKER .....          | 86 |
| MONITOR .....          | 87 |
| REAR VIEW CAMERA ..... | 88 |

|                                                       |    |
|-------------------------------------------------------|----|
| EXTENSION CABLE & ADAPTERS<br>FOR VIDEO SYSTEMS ..... | 90 |
| MOUNTING ACCESSORIES .....                            | 91 |
| LEGEND OF ICONS .....                                 | 93 |



|                             |    |
|-----------------------------|----|
| INDEX PER PART NUMBER ..... | 94 |
|-----------------------------|----|



## BROADCASTING

|                         |    |
|-------------------------|----|
| SHARK 3 .....           | 12 |
| SHARK 2 .....           | 13 |
| SHARK 2 CUSTOM .....    | 15 |
| SHARK 1 .....           | 17 |
| 16 V .....              | 18 |
| FRONT ROOF .....        | 24 |
| FLEXI .....             | 26 |
| TELESCOPIC .....        | 28 |
| INTERNAL MOUNTING ..... | 30 |
| FOIL .....              | 33 |

*The high quality of Calearo antennas and cables allows to create a reception system able to optimize the sound inside the car by making the most of all its features. Fitted to a saloon or a micro car, or even a cabin of an agricultural vehicle, our antennas guarantee total functional efficiency, reliability, durability and top reception.*



**SHARK 3** NEW

ROOF ANTENNA

AVAILABLE VERSIONS

|                            | AM / FM | DAB | GNSS | LTE |
|----------------------------|---------|-----|------|-----|
| P/N: 7677520 - QUAD        | •       | •   | •    | •   |
| P/N: 7677510 - TRIPLEX     | •       | •   | •    |     |
| P/N: 7677500 - COMBI RADIO | •       | •   |      |     |

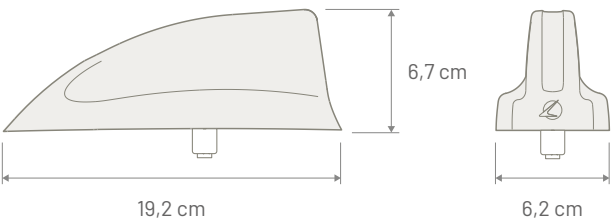
TECHNICAL SPECIFICATION

|                    | AM / FM          | DAB              | GNSS               | LTE                         |
|--------------------|------------------|------------------|--------------------|-----------------------------|
| Connector          | FAKRA Male White | FAKRA Male Black | FAKRA Male Blue    | FAKRA Male Bordeaux         |
| Cable Type         | RG 174           | RG 174           | RG 174             | RG 174                      |
| Cable Lenght       | 200 mm           | 300 mm           | 400 mm             | 250 mm                      |
| Power Supply       | 12 Volt Phantom  | 12 Volt Phantom  | 3 - 5 Volt Phantom | --                          |
| Consumption        | 63 mA            | 40 mA            | 31 mA              | --                          |
| Impedance          | FM: 50 Ω         | 50 Ω             | 50 Ω               | 50 Ω                        |
| Gain               | --               | 6 dBi            | 28 dBi             | Peak: 4 dBi Average: -4 dBi |
| VSWR               | FM < 2:1         | < 3:1            | 1.7:1              | 3:1                         |
| Max Power          | --               | --               | --                 | 4 Watt                      |
| Protection Class   | IP69             |                  |                    |                             |
| Coachwork drilling | Round: 17 mm     |                  |                    |                             |

Note



Dimensions



**SHARK 2****ROOF ANTENNA**

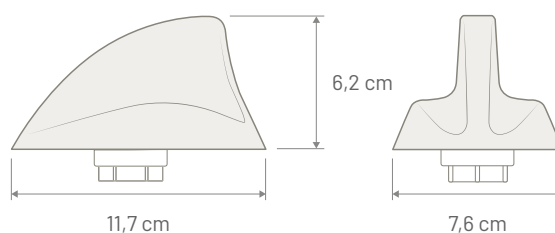
## AVAILABLE VERSIONS

|                            | AM / FM | DAB | GNSS |
|----------------------------|---------|-----|------|
| P/N: 7677810 - TRIPLEX     | •       | •   | •    |
| P/N: 7677815 - COMBI RADIO | •       | •   |      |
| P/N: 7677820 - DAB         |         | •   |      |
| P/N: 7677825 - DUPLEX      | •       |     | •    |
| P/N: 7677830 - RADIO       | •       |     |      |

## TECHNICAL SPECIFICATION

|                    | AM / FM                           | DAB                           | GNSS               |
|--------------------|-----------------------------------|-------------------------------|--------------------|
| Connector          | FAKRA Male White                  | FAKRA Male Black              | FAKRA Male Blue    |
| Cable Type         | RG 174                            | RG 174                        | RG 174             |
| Cable Length       | 250 mm                            | 250 mm                        | 250 mm             |
| Power Supply       | 12 Volt Dedicated and Phantom     | 12 Volt Dedicated and Phantom | 3 - 5 Volt Phantom |
| Consumption        | 50 mA max                         | 50 mA max                     | 31 mA              |
| Impedance          | 50 Ω                              | 50 Ω                          | 50 Ω               |
| Gain               | --                                | 2 dBi                         | 28 dBi             |
| VSWR               | --                                | < 3:1                         | 1.7:1              |
| Protection Class   | IP68                              |                               |                    |
| Coachwork drilling | Square: 15 x 15 mm - Round: 19 mm |                               |                    |

## Note

**Dimensions**

SHARK 2 TV

ROOF ANTENNA

AVAILABLE VERSIONS

|                           | AM / FM | DTT | GNSS |
|---------------------------|---------|-----|------|
| P/N: 7727083 - TRIPLEX TV | •       | •   | •    |
| P/N: 7727082 - COMBI TV   | •       | •   |      |

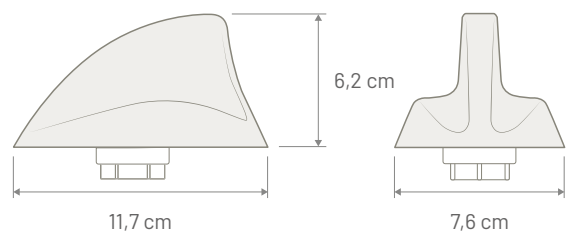
TECHNICAL SPECIFICATION

|                    | AM / FM                           | DTT                           | GNSS               |
|--------------------|-----------------------------------|-------------------------------|--------------------|
| Connector          | FAKRA Male White                  | FAKRA Male Green              | FAKRA Male Blue    |
| Cable Type         | RG 174                            | RG 174                        | RG 174             |
| Cable Lenght       | 250 mm                            | 250 mm                        | 250 mm             |
| Power Supply       | 12 Volt Dedicated and Phantom     | 12 Volt Dedicated and Phantom | 3 - 5 Volt Phantom |
| Consumption        | 50 mA max                         | 40 mA max                     | 45 mA max          |
| Impedance          | FM: 50 Ω                          | 50 Ω                          | 50 Ω               |
| Gain               | --                                | 4 dBi                         | 28 dBi             |
| VSWR               | --                                | < 4                           | 2:1                |
| Protection Class   | IP68                              |                               |                    |
| Coachwork drilling | Square: 15 x 15 mm - Round: 19 mm |                               |                    |

Note



Dimensions



**SHARK 2 FCA****ROOF ANTENNA**

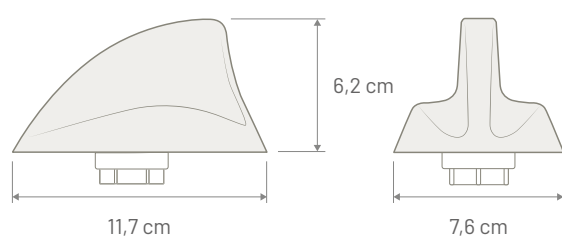
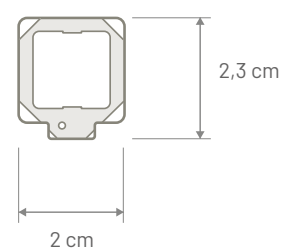
## AVAILABLE VERSIONS

|                            | AM / FM | DAB | GNSS |
|----------------------------|---------|-----|------|
| P/N: 7677890 - TRIPLEX     | •       | •   | •    |
| P/N: 7677892 - COMBI RADIO | •       | •   |      |
| P/N: 7677894 - RADIO       | •       |     |      |

## TECHNICAL SPECIFICATION

|                    | AM / FM                           | DAB                           | GNSS               |
|--------------------|-----------------------------------|-------------------------------|--------------------|
| Connector          | FAKRA Female White                | FAKRA Female Grey             | FAKRA Female Blue  |
| Cable Type         | RG 174                            | RG 174                        | RG 174             |
| Cable Length       | 250 mm                            | 200 mm                        | 350 mm             |
| Power Supply       | 12 Volt Dedicated and Phantom     | 12 Volt Dedicated and Phantom | 3 - 5 Volt Phantom |
| Consumption        | 50 mA max                         | 50 mA max                     | 45 mA max          |
| Impedance          | 50 Ω                              | 50 Ω                          | 50 Ω               |
| Gain               | --                                | 2 dBi                         | 28 dBi             |
| VSWR               | --                                | < 3:1                         | 2:1                |
| Protection Class   | IP68                              |                               |                    |
| Coachwork drilling | Square: 15 x 15 mm - Round: 19 mm |                               |                    |

## Note

**Dimensions****Mounting scheme****FCA hole**

SHARK 2 NISSAN COMBI RADIO NEW

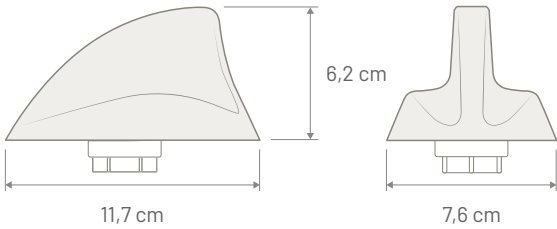
ROOF ANTENNA

|                    |                                   |                           |
|--------------------|-----------------------------------|---------------------------|
| P/N: 7677965       | AM / FM                           | DAB                       |
| Connector          | GT13 Female                       | FAKRA Male Brown          |
| Cable Type         | RG 174                            | RG 174                    |
| Cable Lenght       | 300 mm                            | 250 mm                    |
| Power Supply       | 12V Dedicated and Phantom         | 12V Dedicated and Phantom |
| Consumption        | 50 mA max                         | 50 mA max                 |
| Impedance          | 50 Ω                              | 50 Ω                      |
| Gain               | --                                | 2 dBi                     |
| VSWR               | --                                | < 3:1                     |
| Protection Class   | IP68                              |                           |
| Coachwork drilling | Square: 15 x 15 mm - Round: 19 mm |                           |

Note



Dimensions



**SHARK 1** RADIO

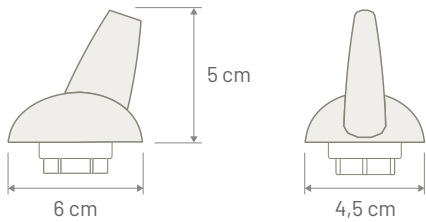
**ROOF ANTENNA**

|                     |                                   |
|---------------------|-----------------------------------|
| <b>P/N: 7677805</b> | <b>AM / FM</b>                    |
| Connector           | FAKRA Male White                  |
| Cable Type          | RG 174                            |
| Cable Lenght        | 250 mm                            |
| Power Supply        | 12 Volt Dedicated and Phantom     |
| Consumption         | 60 mA max                         |
| Impedance           | 50 Ω                              |
| Protection Class    | IP68                              |
| Coachwork drilling  | Square: 15 x 15 mm - Round: 19 mm |

Note



**Dimensions**

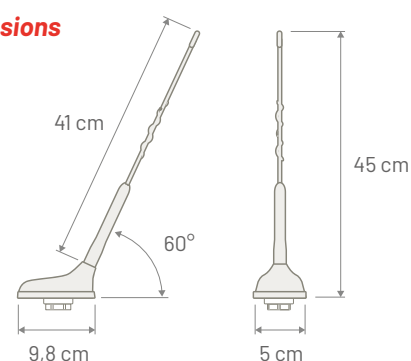


**TRIPLEX****REAR ROOF ANTENNA**

P/N: 7677840

|              | AM / FM               | DAB                | GNSS                              |
|--------------|-----------------------|--------------------|-----------------------------------|
| Connector    | FAKRA Male White      | FAKRA Male Black   | FAKRA Male Blue                   |
| Cable Type   | RG 174                | RG 174             | RG 174                            |
| Cable Length | 180 mm                | 200 mm             | 220 mm                            |
| Power Supply | 12 Volt Dedicated     | 12 Volt Dedicated  | 3 - 5 Volt Phantom                |
| Consumption  | 75 mA max             | 75 mA max          | 45 mA max                         |
| Impedance    | 50 Ω                  | 50 Ω               | 50 Ω                              |
| Gain         | --                    | 12 dBi             | 32 dBi                            |
| VSWR         | AM: < 5:1 / FM: < 8:1 | < 5:1              | 2:1                               |
| Rod Length   | 410 mm                | Base Angle         | 60 degree                         |
| Rod Thread   | M6                    | Protection Class   | IP67                              |
| Rod Type     | Antinoise             | Coachwork drilling | Square: 15 x 15 mm - Round: 19 mm |

Note

**Dimensions****TRIPLEX SHORT ROD**

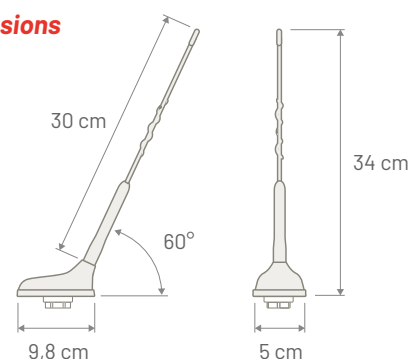
NEW

**REAR ROOF ANTENNA**

P/N: 7677845

|              | AM / FM             | DAB                | GNSS                              |
|--------------|---------------------|--------------------|-----------------------------------|
| Connector    | FAKRA Male White    | FAKRA Male Black   | FAKRA Male Blue                   |
| Cable Type   | RG 174              | RG 174             | RG 174                            |
| Cable Length | 225 mm              | 260 mm             | 270 mm                            |
| Power Supply | 12 Volt Dedicated   | 12 Volt Dedicated  | 3 - 5 V Phantom                   |
| Consumption  | 75 mA max           | 75 mA max          | 45 mA max                         |
| Impedance    | 50 Ω                | 50 Ω               | 50 Ω                              |
| Gain         | --                  | 0 dBi              | 30 dBi                            |
| VSWR         | AM: 5:1 / FM: 7,5:1 | 3,5:1              | 1,5:1                             |
| Rod Length   | 300 mm              | Base Angle         | 60 degree                         |
| Rod Thread   | M6                  | Protection Class   | IP67                              |
| Rod Type     | Antinoise           | Coachwork drilling | Square: 15 x 15 mm - Round: 19 mm |

Note

**Dimensions**

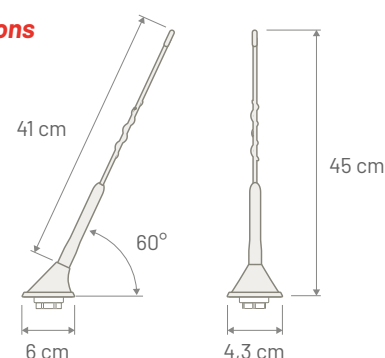
## COMBI RADIO

**REAR ROOF ANTENNA**
**P/N: 7677850**

| P/N: 7677850 | AM / FM             |                    | DAB                               |
|--------------|---------------------|--------------------|-----------------------------------|
| Connector    | FAKRA Male White    |                    | FAKRA Male Black                  |
| Cable Type   | RG 174              |                    | RG 174                            |
| Cable Lenght | 180 mm              |                    | 200 mm                            |
| Power Supply | 12 Volt Dedicated   |                    | 12 Volt Dedicated                 |
| Consumption  | 50 mA max           |                    | 50 mA max                         |
| Impedance    | 50 Ω                |                    | 50 Ω                              |
| Gain         | --                  |                    | 12 dBi                            |
| VSWR         | AM: 5:1 / FM: 7,5:1 |                    | < 3:1                             |
| Rod Lenght   | 410 mm              | Base Angle         | 60 degree                         |
| Rod Thread   | M6                  | Protection Class   | IP68                              |
| Rod Type     | Antinoise           | Coachwork drilling | Square: 15 x 15 mm – Round: 19 mm |

**Note**


### Dimensions



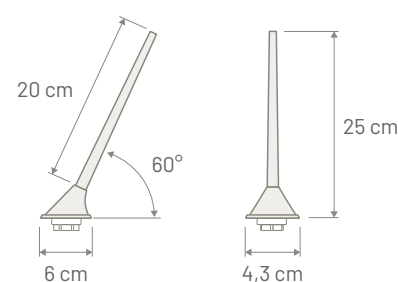
## COMBI RADIO SHORT ROD

**REAR ROOF ANTENNA**
**P/N: 7677855**

| P/N: 7677855 | AM / FM             |                    | DAB                               |
|--------------|---------------------|--------------------|-----------------------------------|
| Connector    | FAKRA Male White    |                    | FAKRA Male Black                  |
| Cable Type   | RG 174              |                    | RG 174                            |
| Cable Lenght | 180 mm              |                    | 200 mm                            |
| Power Supply | 12 Volt Dedicated   |                    | 12 Volt Dedicated                 |
| Consumption  | 50 mA max           |                    | 50 mA max                         |
| Impedance    | 50 Ω                |                    | 50 Ω                              |
| Gain         | --                  |                    | 0 dBi                             |
| VSWR         | AM: 5:1 / FM: 7,5:1 |                    | < 3:1                             |
| Rod Lenght   | 200 mm              | Base Angle         | 60 degree                         |
| Rod Thread   | M5                  | Protection Class   | IP68                              |
| Rod Type     | Smooth              | Coachwork drilling | Square: 15 x 15 mm – Round: 19 mm |

**Note**


### Dimensions



**DAB** PASSIVE

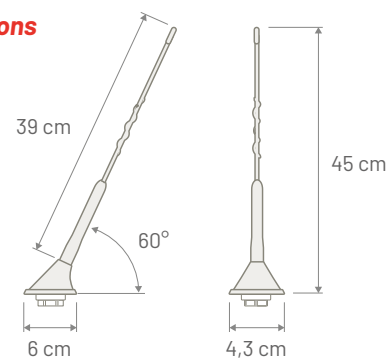
## REAR ROOF ANTENNA

P/N: 7677860

**DAB**

|              |                  |                    |                                   |
|--------------|------------------|--------------------|-----------------------------------|
| Connector    | FAKRA Male Black |                    |                                   |
| Cable Type   | RG 174           |                    |                                   |
| Cable Length | 100 mm           |                    |                                   |
| Impedance    | 50 $\Omega$      |                    |                                   |
| Gain         | 2 dBi            |                    |                                   |
| VSWR         | < 3,5:1          |                    |                                   |
| Rod Length   | 390 mm           | Base Angle         | 60 degree                         |
| Rod Thread   | M5               | Protection Class   | IP68                              |
| Rod Type     | Antinoise        | Coachwork drilling | Square: 15 x 15 mm - Round: 19 mm |

## Note

**Dimensions****16V SHORT ROD** DAB READY

## REAR ROOF

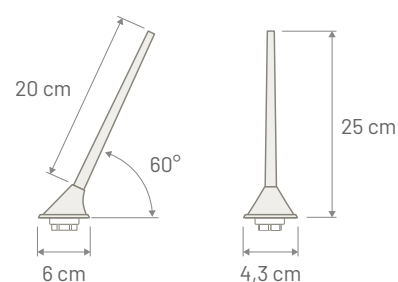
P/N: 7677865

**AM / FM**

|              |                  |                    |                                   |
|--------------|------------------|--------------------|-----------------------------------|
| Connector    | FAKRA Male White |                    |                                   |
| Cable Type   | RG 174           |                    |                                   |
| Cable Length | 180 mm           |                    |                                   |
| Impedance    | FM: 50 $\Omega$  |                    |                                   |
| Gain         | --               |                    |                                   |
| VSWR         | FM: < 3:1        |                    |                                   |
| Rod Length   | 200 mm           | Base Angle         | 60 degree                         |
| Rod Thread   | M5               | Protection Class   | IP68                              |
| Rod Type     | Smooth           | Coachwork drilling | Square: 15 x 15 mm - Round: 19 mm |

## Note

To enable DAB reception an Active or Passive Splitter is needed (see SERVICE BOX chapter)

**Dimensions**

## 16V RADIO 60°

60° PASSIVE ANTENNA

### AVAILABLE VERSIONS

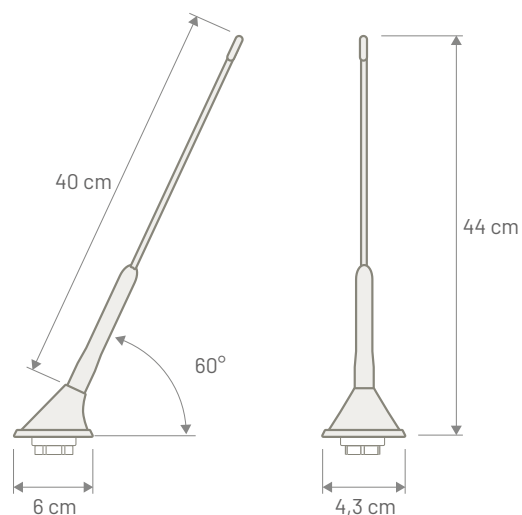
|                      | TYPE    | POWER SUPPLY   | ROD TYPE  |
|----------------------|---------|----------------|-----------|
| P/N: 7677870 - RADIO | Passive | --             | Smooth    |
| P/N: 7677872 - RADIO | Active  | 12 V Phantom   | Smooth    |
| P/N: 7677874 - RADIO | Active  | 12 V Dedicated | Antinoise |

### TECHNICAL SPECIFICATION

|                    | AM / FM                           |
|--------------------|-----------------------------------|
| Connector          | FAKRA Male White                  |
| Cable Type         | RG 174                            |
| Cable Length       | 180 mm                            |
| Consumption        | 60 mA max (only active antennas)  |
| Impedance          | --                                |
| Gain               | --                                |
| VSWR               | --                                |
| Rod Length         | 405 mm                            |
| Rod Thread         | M5                                |
| Base Angle         | 60 degree                         |
| Protection Class   | IP68                              |
| Coachwork drilling | Square: 15 x 15 mm - Round: 19 mm |

#### Note

### Dimensions



**16V RADIO 60° ANTITHEFT****REAR ROOF**

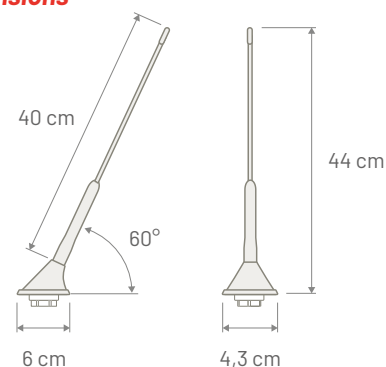
P/N: 7677876

**AM / FM**

|              |                  |                    |                                   |
|--------------|------------------|--------------------|-----------------------------------|
| Connector    | FAKRA Male White |                    |                                   |
| Cable Type   | RG 174           |                    |                                   |
| Cable Length | 180 mm           |                    |                                   |
| Power Supply | 12 Volt Phantom  |                    |                                   |
| Consumption  | 60 mA max        |                    |                                   |
| Impedance    | FM: 50 Ω         |                    |                                   |
| Gain         | --               |                    |                                   |
| VSWR         | FM: < 4,5:1      |                    |                                   |
| Rod Length   | 405 mm           | Protection Class   | IP68                              |
| Base Angle   | 60 degree        | Coachwork drilling | Square: 15 x 15 mm - Round: 19 mm |

Note

Rod Antitheft System is Patented by Calearo

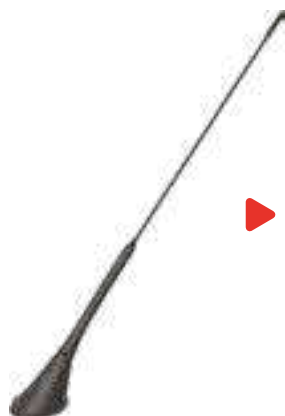
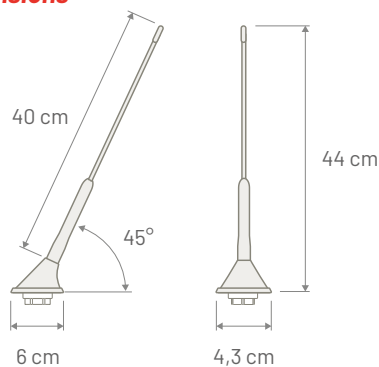
**Dimensions****16V RADIO 45°****FRONT ROOF**

P/N: 7677882

**AM / FM**

|              |                  |                    |                                   |
|--------------|------------------|--------------------|-----------------------------------|
| Connector    | FAKRA Male White |                    |                                   |
| Cable Type   | RG 174           |                    |                                   |
| Cable Length | 180 mm           |                    |                                   |
| Impedance    | --               |                    |                                   |
| Gain         | --               |                    |                                   |
| Rod Length   | 405 mm           | Base Angle         | 45 degree                         |
| Rod Thread   | M5               | Protection Class   | IP68                              |
| Rod Type     | Smooth           | Coachwork drilling | Square: 15 x 15 mm - Round: 19 mm |

Note

**Dimensions**

## 16V RADIO 76°

REAR ROOF

## AVAILABLE VERSIONS

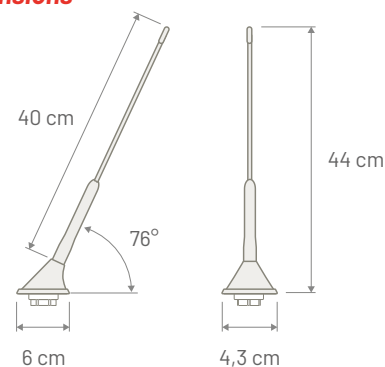
|                      | TYPE    | POWER SUPPLY  | ROD TYPE |
|----------------------|---------|---------------|----------|
| P/N: 7677878 - RADIO | Passive | --            | Smooth   |
| P/N: 7677880 - RADIO | Active  | 12V Dedicated | Smooth   |

## TECHNICAL SPECIFICATION

|                    | AM / FM                           |
|--------------------|-----------------------------------|
| Connector          | FAKRA Male White                  |
| Cable Type         | RG 174                            |
| Cable Length       | 180 mm                            |
| Consumption        | 60 mA max (only active antennas)  |
| Impedance          | --                                |
| Gain               | --                                |
| VSWR               | --                                |
| Rod Length         | 405 mm                            |
| Rod Thread         | M5                                |
| Base Angle         | 76 degree                         |
| Protection Class   | IP68                              |
| Coachwork drilling | Square: 15 x 15 mm - Round: 19 mm |

Note

## Dimensions



**RADIO FORD****WITHOUT EXTENSION CABLE****P/N: 7657009****AM / FM**

|            |        |                    |                                |
|------------|--------|--------------------|--------------------------------|
| Impedance  | --     | Protection Class   | IP68                           |
| Gain       | --     | Mounting           | Customized for original hole   |
| Rod Length | 400 mm | Coachwork drilling | A: Ø 4,7 mm B: Ø 8 mm D: 14 mm |
| Rod Thread | M6     | Note               | Passive antenna                |

**RADIO FIAT GROUP > 2001****WITHOUT EXTENSION CABLE****P/N: 7657015****AM / FM**

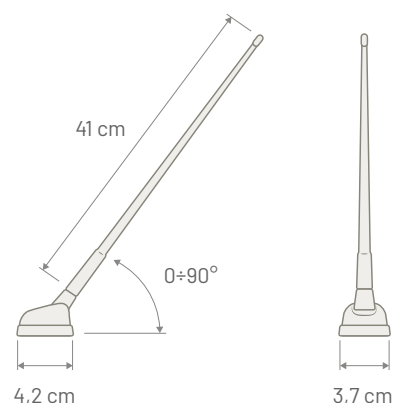
|            |        |                    |                              |
|------------|--------|--------------------|------------------------------|
| Impedance  | --     | Protection Class   | IP68                         |
| Gain       | --     | Mounting           | Customized for original hole |
| Rod Length | 400 mm | Coachwork drilling | A: M6                        |
| Rod Thread | M6     | Note               | Passive antenna              |

**RADIO FIAT COMMERCIAL VEHICLES - PEUGEOT****WITHOUT EXTENSION CABLE****P/N: 7657019****AM / FM**

|            |        |                    |                              |
|------------|--------|--------------------|------------------------------|
| Impedance  | --     | Protection Class   | IP68                         |
| Gain       | --     | Mounting           | Customized for original hole |
| Rod Length | 400 mm | Coachwork drilling | A: M6                        |
| Rod Thread | M6     | Note               | Passive antenna              |

**RADIO FIAT GROUP 2002 >****WITHOUT EXTENSION CABLE****P/N: 7657021****AM / FM**

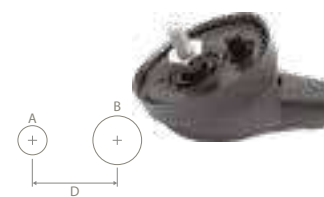
|            |        |                    |                              |
|------------|--------|--------------------|------------------------------|
| Impedance  | --     | Protection Class   | IP68                         |
| Gain       | --     | Mounting           | Customized for original hole |
| Rod Length | 400 mm | Coachwork drilling | A: Ø 10,2 mm                 |
| Rod Thread | M6     | Note               | Passive antenna              |

**Dimensions**

**RADIO UNIVERSAL****WITH EXTENSION CABLE****P/N: 7657008****AM / FM**

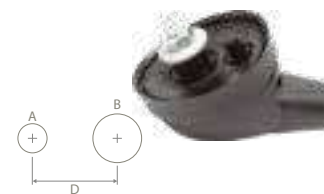
|              |              |                    |                                                        |
|--------------|--------------|--------------------|--------------------------------------------------------|
| Connector    | DIN Male     | Rod Length         | 400 mm                                                 |
| Cable Type   | AR 7         | Rod Thread         | M6                                                     |
| Cable Length | 2450 mm      | Protection Class   | IP68                                                   |
| Impedance    | 130 $\Omega$ | Mounting           | Universal                                              |
| Gain         | --           | Coachwork drilling | A: $\varnothing$ 4,7 mm B: $\varnothing$ 8 mm D: 14 mm |

Note Passive antenna

**RADIO UNIVERSAL****WITH EXTENSION CABLE****P/N: 7657016****AM / FM**

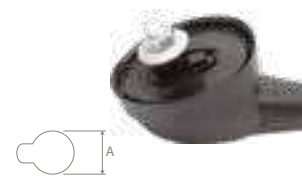
|              |              |                    |                                                           |
|--------------|--------------|--------------------|-----------------------------------------------------------|
| Connector    | DIN Male     | Rod Length         | 400 mm                                                    |
| Cable Type   | AR 7         | Rod Thread         | M6                                                        |
| Cable Length | 2450 mm      | Protection Class   | IP68                                                      |
| Impedance    | 130 $\Omega$ | Mounting           | Universal                                                 |
| Gain         | --           | Coachwork drilling | A: $\varnothing$ 4,7 mm B: $\varnothing$ 10,2 mm D: 14 mm |

Note Passive antenna

**RADIO FIAT GROUP 2002 >****WITH EXTENSION CABLE****P/N: 7657020****AM / FM**

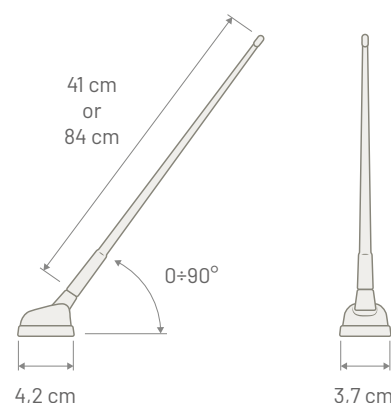
|              |              |                    |                              |
|--------------|--------------|--------------------|------------------------------|
| Connector    | DIN Male     | Rod Length         | 400 mm                       |
| Cable Type   | AR 7         | Rod Thread         | M6                           |
| Cable Length | 2700 mm      | Protection Class   | IP68                         |
| Impedance    | 130 $\Omega$ | Mounting           | Customized for original hole |
| Gain         | --           | Coachwork drilling | A: $\varnothing$ 10,2 mm     |

Note Passive antenna

**RADIO UNIVERSAL****WITH EXTENSION CABLE****P/N: 7651006****AM / FM**

|              |              |                    |                                                        |
|--------------|--------------|--------------------|--------------------------------------------------------|
| Connector    | DIN Male     | Rod Length         | 850 mm                                                 |
| Cable Type   | AR 7         | Rod Thread         | M6                                                     |
| Cable Length | 2450 mm      | Protection Class   | IP68                                                   |
| Impedance    | 130 $\Omega$ | Mounting           | Universal                                              |
| Gain         | --           | Coachwork drilling | A: $\varnothing$ 4,7 mm B: $\varnothing$ 8 mm D: 14 mm |

Note Passive antenna

**Dimensions**



**FLEXI** SPHERIC BASE

ROOF / PILLAR

|                                | CONNECTOR | CABLE TYPE | CABLE LENGHT |
|--------------------------------|-----------|------------|--------------|
| P/N: 7667012 - RADIO DAB READY | DIN Male  | RG 58      | 2500 mm      |
| P/N: 7667013 - RADIO DAB READY | DIN Male  | RG 58      | 1500 mm      |

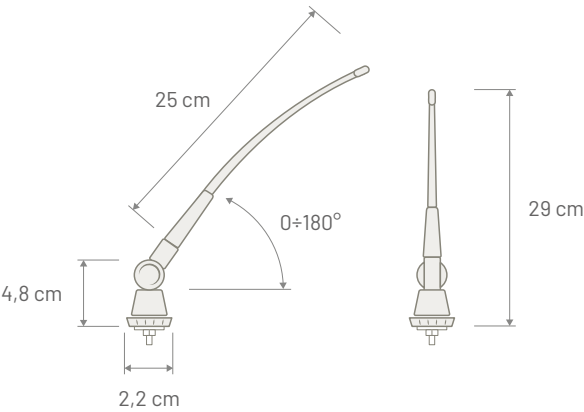
TECHNICAL SPECIFICATION

|                    | AM / FM                                 |
|--------------------|-----------------------------------------|
| Impedance          | 50 Ω                                    |
| Gain               | --                                      |
| Rod Lenght         | 240 mm                                  |
| Rod Thread         | M6                                      |
| Rod Type           | Rubber - High flessibility - Heavy duty |
| Protection Class   | IP68                                    |
| Coachwork drilling | Round 9 mm                              |

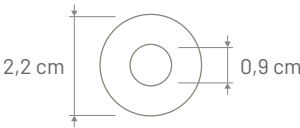
**Note** To enable DAB reception an Active or Passive Splitter is needed (see SERVICE BOX chapter)



**Dimensions**



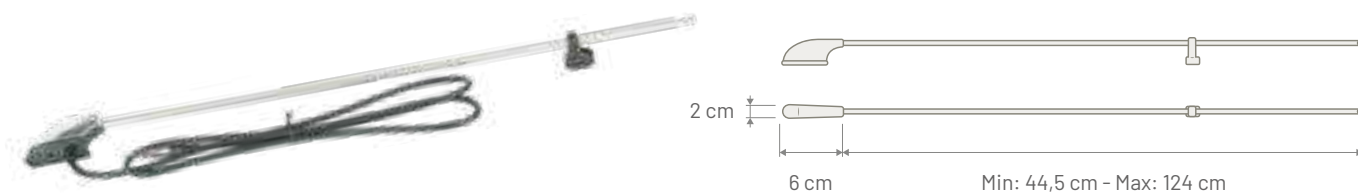
**Coachwork Drilling**



**RADIO PILLAR****TELESCOPIC ANTENNA**

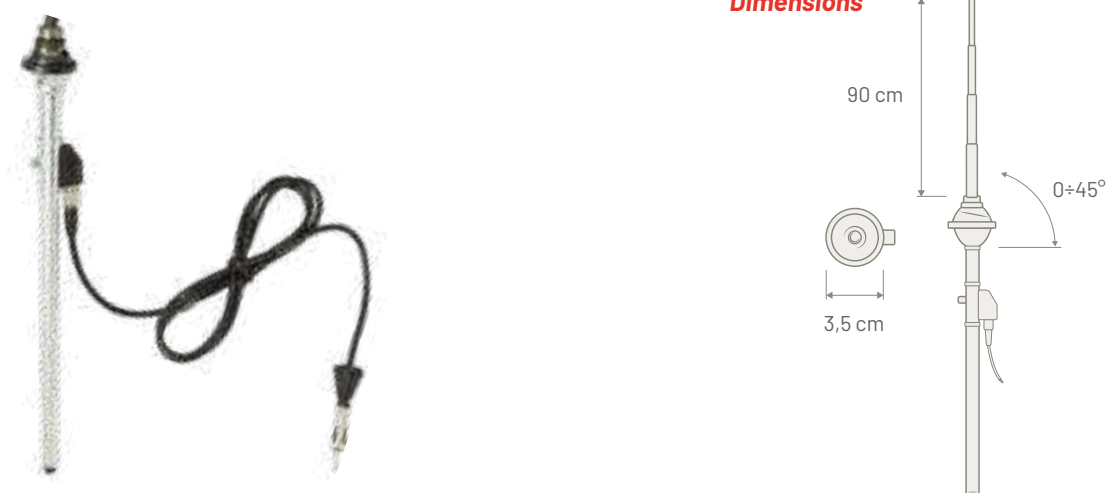
| P/N: 7627008       | AM / FM                        |
|--------------------|--------------------------------|
| Connector          | DIN Male                       |
| Cable Type         | COAXIAL                        |
| Cable Length       | 1500 mm                        |
| Impedance          | 130 $\Omega$                   |
| Rod Length         | Min: 445 mm - Max: 1240 mm     |
| Rod Type           | 3 elements INOX telescopic rod |
| Mounting           | Pillar                         |
| Coachwork drilling | Round 10 mm                    |

Note

**Dimensions****RADIO FENDER****TELESCOPIC ANTENNA**

| P/N: 7677153       | AM / FM                              |
|--------------------|--------------------------------------|
| Connector          | DIN Male                             |
| Cable Type         | COAXIAL                              |
| Cable Length       | 1500 mm                              |
| Impedance          | 130 $\Omega$                         |
| Rod Length         | 85 cm                                |
| Rod Type           | 4 elements INOX telescopic rod       |
| Rod Angle          | Max 45 degree from vertical position |
| Mounting           | Fender                               |
| Coachwork drilling | Round 17 mm                          |

Note

**Dimensions**

## TELESCOPE ELECTRIC ANTENNA NEW

### MOTORIZED PILLAR ANTENNA

P/N: 7677154 - MOTORIZED

P/N: 7677155 - MOTORIZED

#### COLOR TELESCOPIC ROD

INOX

BLACK

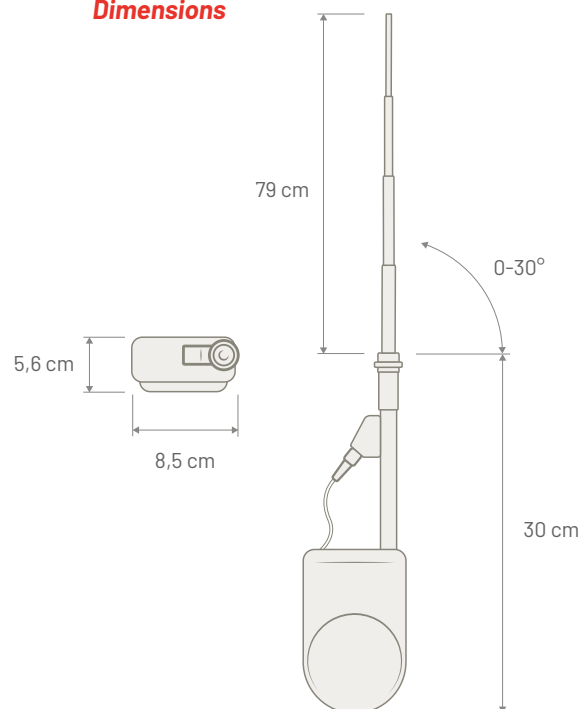
#### TECHNICAL SPECIFICATION

##### AM / FM

|                    |                                           |
|--------------------|-------------------------------------------|
| Connector          | DIN Male                                  |
| Cable Type         | 3C-2V                                     |
| Cable Length       | 1400 mm                                   |
| Power Supply       | 12 Volt Dedicated                         |
| Consumption        | 36 watt max                               |
| Impedance          | 50 $\Omega$                               |
| Rod Length         | 790 mm                                    |
| Rod Type           | 5 elements stainless steel telescopic rod |
| Rod Angle          | Max 30 degree from vertical position      |
| Coachwork drilling | Round 14,5 mm                             |

#### Note

#### Dimensions



NEW LIGHT RADIO SERIES NEW

INTERNAL ON-GLASS ANTENNA

AVAILABLE VERSIONS

|                              | AM / FM | DAB |
|------------------------------|---------|-----|
| P/N: 7677925 - COMBI RADIO   | •       | •   |
| P/N: 7677926 - RADIO         | •       |     |
| P/N: 7677929 - DAB EVOLUTION |         | •   |

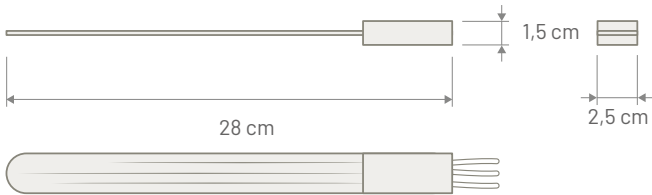
TECHNICAL SPECIFICATION

|                  | AM / FM                    | DAB              |
|------------------|----------------------------|------------------|
| Connector        | FAKRA Male White           | FAKRA Male Black |
| Cable Type       | RG 174                     | RG 174           |
| Cable Lenght     | 150 mm                     | 150 mm           |
| Power Supply     | 12 Volt Phantom            | 12 Volt Phantom  |
| Consumption      | 90 mA max                  | 90 mA max        |
| Impedance        | 50 Ω                       | 50 Ω             |
| Gain             | --                         | 8 dBi            |
| VSWR             | FM: < 3:1                  | < 2:1            |
| Protection Class | IP41                       |                  |
| Mounting         | Internal adhesive on-glass |                  |

Note Amplifier must be powered from both AM / FM and DAB connector



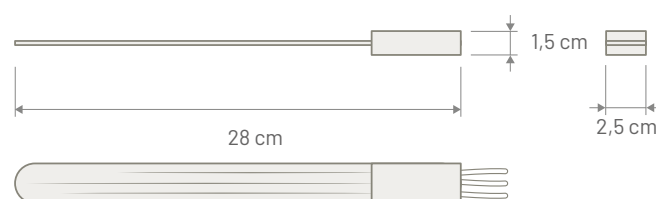
Dimensions



**LIGHT DAB****INTERNAL ON-GLASS ANTENNA****P/N: 7677938****DAB**

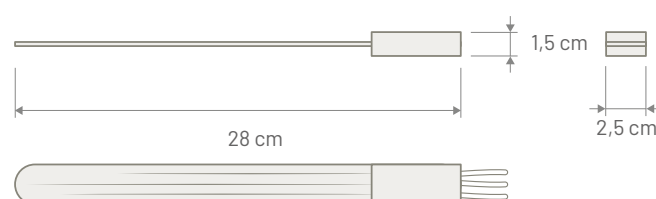
|                  |                            |
|------------------|----------------------------|
| Connector        | FAKRA Female Black         |
| Cable Type       | RG 174                     |
| Cable Length     | 3000 mm                    |
| Power Supply     | 12 Volt Phantom            |
| Consumption      | 35 mA max                  |
| Impedance        | --                         |
| Gain             | 4 dBi                      |
| VSWR             | --                         |
| Protection Class | IP34                       |
| Mounting         | Adhesive internal on glass |

**Note** FAKRA Male Waterblue (Universal code) > SMB Female 90° adapter cable included in the package

**Dimensions****LIGHT TV****INTERNAL ON-GLASS ANTENNA****P/N: 7137122****DTV**

|                  |                            |
|------------------|----------------------------|
| Connector        | MINI JACK Male 3,5 Mm      |
| Cable Type       | RX 174                     |
| Cable Length     | 3000 mm                    |
| Power Supply     | 12 Volt Dedicated          |
| Consumption      | 35 mA max                  |
| Impedance        | 75 Ω                       |
| Gain             | 6 dBi                      |
| Protection Class | IP34                       |
| Mounting         | Adhesive internal on glass |

**Note**

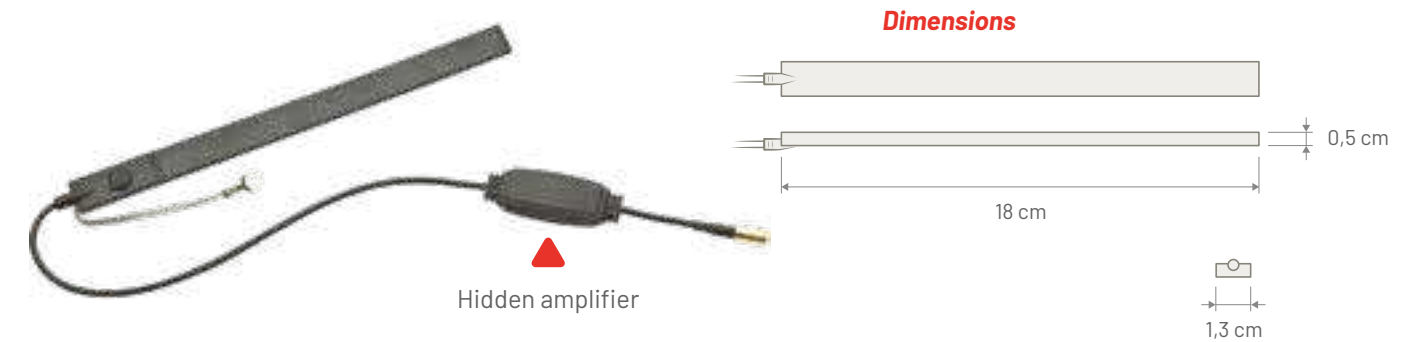
**Dimensions**

RUBBER <sup>DAB</sup>

INTERNAL ON-GLASS ANTENNA

|              |                            |
|--------------|----------------------------|
| P/N: 7137134 | DAB                        |
| Connector    | SMB Female 90°             |
| Cable Type   | RG 174                     |
| Cable Lenght | 3500 mm                    |
| Power Supply | 12 volt Phantom            |
| Consumption  | 35 mA max                  |
| Impedance    | 50 Ω                       |
| Gain         | 6 dBi                      |
| VSWR         | 1.8 typical                |
| Mounting     | Adhesive internal on glass |

Note



WHISKER <sup>AM / FM</sup>

INTERNAL ON-GLASS ANTENNA

AVAILABLE VERSIONS

|                              | CONNECTOR          | CABLE LENGHT | POWER SUPPLY      |
|------------------------------|--------------------|--------------|-------------------|
| P/N: 7697015 - WHISKER DIN   | DIN Male           | 2400 mm      | 12 volt Dedicated |
| P/N: 7697018 - WHISKER FAKRA | FAKRA Female White | 2400 mm      | 12 volt Phantom   |

TECHNICAL SPECIFICATION

|             | AM / FM                    |
|-------------|----------------------------|
| Consumption | 40 mA max                  |
| Impedance   | 75 Ω                       |
| Gain        | --                         |
| VSWR        | < 3,0:1                    |
| Mounting    | Adhesive internal on glass |

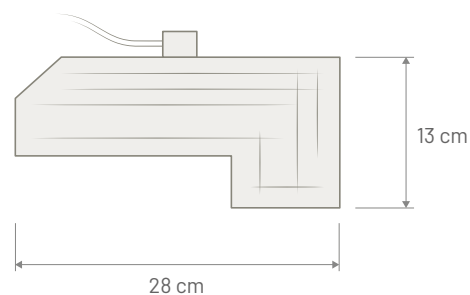
Note AM and FM double amplification



**FOIL COMBI RADIO****NEW****BUMPER, PLASTIC AND FIBERGLASS SURFACE MOUNTING**

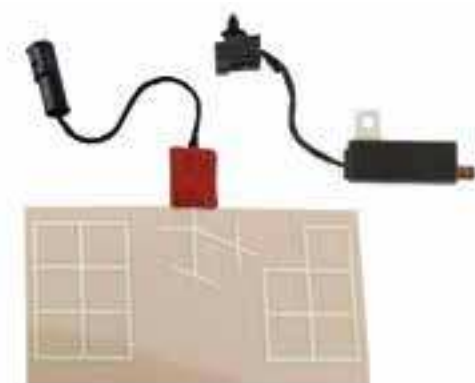
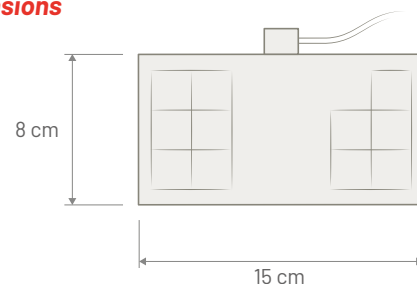
| P/N: 7677955     | AM / FM                                                | DAB              |
|------------------|--------------------------------------------------------|------------------|
| Connector        | FAKRA Male White                                       | FAKRA Male Brown |
| Cable Type       | --                                                     | --               |
| Cable Length     | --                                                     | --               |
| Power Supply     | 12 Volt Phantom                                        | 12 Volt Phantom  |
| Consumption      | 60 mA max                                              | 60 mA max        |
| Impedance        | 50 Ω                                                   | 50 Ω             |
| Gain             | --                                                     | 8 dBi            |
| VSWR             | FM: 2,1 : 1                                            | 1,7 : 1          |
| Protection Class | Amplifier IP67                                         |                  |
| Mounting         | Antenna: internal adhesive; Amplifier: screw fastening |                  |

**Note** Amplifier must be powered from both AM / FM and DAB connector

**Dimensions****FOIL DAB****BUMPER, PLASTIC AND FIBERGLASS SURFACE MOUNTING**

| P/N: 7677951     | DAB                                                                                                               |
|------------------|-------------------------------------------------------------------------------------------------------------------|
| Connector        | FAKRA Male Brown                                                                                                  |
| Power Supply     | 12 volt Phantom                                                                                                   |
| Consumption      | 60 mA max                                                                                                         |
| Impedance        | 50 Ω                                                                                                              |
| Gain             | 10 dBi                                                                                                            |
| VSWR             | < 2:1                                                                                                             |
| Protection Class | IP67                                                                                                              |
| Mounting         | Foil: adhesive internal on bumper and other plastic and fiberglass parts<br>Amplifier: screw to the metallic part |

**Note**

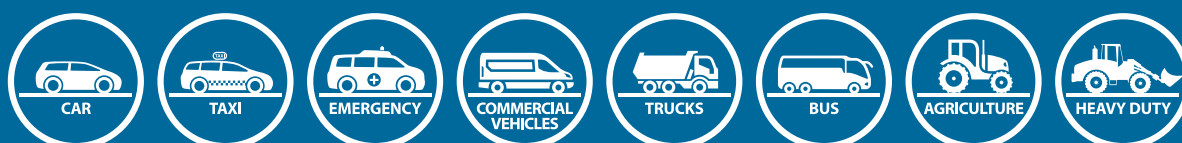
**Dimensions**



## TELEMATICS

|                      |    |
|----------------------|----|
| RADOME COMPACT ..... | 36 |
| SHARK 2 .....        | 37 |
| ON ROOF .....        | 38 |
| MAGNETIC .....       | 38 |
| LUNEX .....          | 39 |
| INTERNAL .....       | 40 |
| LOCATIONING .....    | 41 |

*Calearo continuously strive to offering a wide range of antennas able to optimize mobile communication, localitioning and data transmission in order to guarantee the best performance for any personal, commercial, emergencies and duty application.*



AVAILABLE VERSIONS

P/N: 7770057 - COMLOC  
P/N: 7770058 - COMLOC MIMO 3x  
P/N: 7770059 - COMLOC MIMO 2x2

| GSM - UMTS - LTE | WIFI - BT | WIFI DUALBAND - BT | GNSS |
|------------------|-----------|--------------------|------|
| •                | •         |                    | •    |
| 3x               |           | •                  | •    |
| 2x               | 2x        |                    | •    |

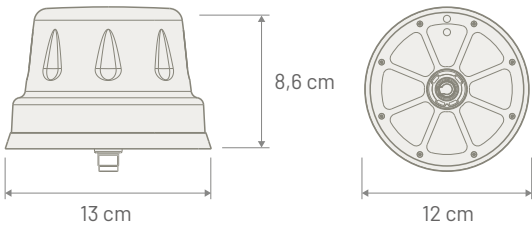
TECHNICAL SPECIFICATION

|                    | GSM - UMTS - LTE                  | WIFI - BT                   | WIFI DUALBAND - BT          | GNSS            |
|--------------------|-----------------------------------|-----------------------------|-----------------------------|-----------------|
| Connector          | FAKRA Male Bordeaux               | FAKRA Male Violet           | FAKRA Male Violet           | FAKRA Male Blue |
| Cable Type         | RG 174                            | RG 174                      | RG 174                      | RG 174          |
| Cable Lenght       | 190 mm                            | 190 mm                      | 190 mm                      | 190 mm          |
| Power Supply       | --                                | --                          | --                          | 3 - 5 V         |
| Consumption        | --                                | --                          | --                          | 15 - 45 mA      |
| Impedance          | 50 Ω                              | 50 Ω                        | 50 Ω                        | 50 Ω            |
| Gain               | Peak: 4 dBi Average: -4 dBi       | Peak: 3 dBi Average: -2 dBi | Peak: 4 dBi Average: -1 dBi | 28 dBi          |
| VSWR               | 2,5:1                             | 1,8:1                       | 1,8:1                       | 1,5:1           |
| Max Power          | 4 Watt                            | 4 Watt                      | 4 Watt                      | --              |
| Protection Class   | IP69                              |                             |                             |                 |
| Mounting           | On roof                           |                             |                             |                 |
| Coachwork drilling | Square: 15 x 15 mm - Round: 19 mm |                             |                             |                 |

Note



Dimensions



## SHARK 2

## ROOF ANTENNA

## AVAILABLE VERSIONS

P/N: 7727098 - SHARK 2 COMLOC

P/N: 7727099 - SHARK 2 COMLOC WIFI

| GSM - UMTS - LTE | WIFI DUAL BAND | GNSS |
|------------------|----------------|------|
| •                |                | •    |
| •                | •              | •    |

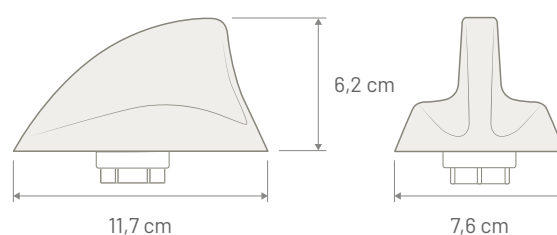
## TECHNICAL SPECIFICATION

|                    | GSM - UMTS - LTE                  | WIFI DUAL BAND              | GNSS               |
|--------------------|-----------------------------------|-----------------------------|--------------------|
| Connector          | FAKRA Male Bordeaux               | FAKRA Male Violet           | FAKRA Male Blue    |
| Cable Type         | RG 174                            | RG 174                      | RG 174             |
| Cable Length       | 290 mm                            | 120 mm                      | 290 mm             |
| Power Supply       | --                                | --                          | 3 - 5 Volt Phantom |
| Consumption        | --                                | --                          | 45 mA max          |
| Impedance          | 50 $\Omega$                       | 50 $\Omega$                 | 50 $\Omega$        |
| Gain               | LTE: Peak 4 dBi Average: -4 dBi   | Peak: 4 dBi Average: -1 dBi | 30 dB              |
| VSWR               | LTE: 2.5:1                        | 2:1                         | 2:1                |
| Max Power          | 4 W                               | 4 W                         | --                 |
| Protection Class   | IP67                              |                             |                    |
| Mounting           | On roof mounting                  |                             |                    |
| Coachwork drilling | Square: 15 x 15 mm - Round: 19 mm |                             |                    |

## Note



## Dimensions



## LAMBDA QUARTER

## ROOF ANTENNA

## AVAILABLE VERSIONS

|                                       | CONNECTOR               | CABLE LENGHT | CABLE TYPE |
|---------------------------------------|-------------------------|--------------|------------|
| P/N: 7681052 - LAMBDA QUARTER         | FME Female - FME Female | 5000 mm      | RG 58      |
| P/N: 8610028 - LAMBDA QUARTER BRACKET | FME Female - SMA Male   | 5000 mm      | LOW LOSS   |

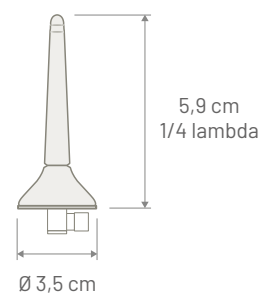
## TECHNICAL SPECIFICATION

|           | AMPS - GSM - DCS - UMTS |                    |              |
|-----------|-------------------------|--------------------|--------------|
| Connector | FME Male                | Max Power          | 8 Watt       |
| Impedance | 50 Ω                    | Protection Class   | IP64         |
| Gain      | 2,15 dBi                | Mounting           | On roof      |
| VSWR      | TX ≤ 2:1 - RX ≤ 2,5:1   | Coachwork drilling | Round: 14 mm |

Note P/N 8610028: supplied with a special bracket for on wall/on mast mounting



## Dimensions



## Magnetic

MAGNETIC EVOLUTION<sup>LTE</sup>

## ROOF ANTENNA

## AVAILABLE VERSIONS

|                                      | CONNECTOR  | CABLE LENGHT | CABLE TYPE |
|--------------------------------------|------------|--------------|------------|
| P/N: 8610146 - MAG EVO 4G            | N Male     | 3000 mm      | RG 174     |
| P/N: 8610147 - MAG EVO 4G <b>NEW</b> | SMA Male   | 3000 mm      | RG 174     |
| P/N: 8610148 - MAG EVO 4G <b>NEW</b> | FME Female | 3000 mm      | RG 174     |

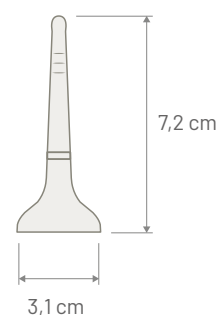
## TECHNICAL SPECIFICATION

|                    | ISM - LTE - GSM | DCS - PCS - UMTS | LTE - WIFI - BLUETOOTH |
|--------------------|-----------------|------------------|------------------------|
| Frequency          | 698 ÷ 960 MHz   | 1710 ÷ 2170 MHz  | 2500 - 2700 MHz        |
| Impedance          | 50 Ω            |                  | 50 Ω                   |
| Gain               | 1.0 dBi         | 2.4 dBi          | 2.1 dBi                |
| VSWR               | ~ 1.9:1         | ~ 1.5:1          | ~ 1.3:1                |
| Max Power          | 50 Watt         | 50 Watt          | 50 Watt                |
| Protection Class   | IP68            |                  |                        |
| Coachwork drilling | Magnetic mount  |                  |                        |

Note



## Dimensions



LUNEX EVOLUTION NEW

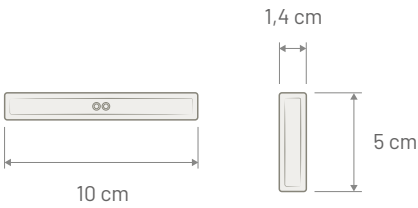
UNIVERSAL ANTENNA

| P/N: 7731010     | GSM - UMTS - LTE                    | GNSS               |
|------------------|-------------------------------------|--------------------|
| Connector        | FAKRA Male Bordeaux                 | FAKRA Male Blue    |
| Cable Type       | RG 174                              | RG 174             |
| Cable Lenght     | 210 mm                              | 210 mm             |
| Power Supply     | --                                  | 3 - 5 Volt Phantom |
| Consumption      | --                                  | 19 - 36 mA         |
| Impedance        | 50 Ω                                | 50 Ω               |
| Gain             | - 5 dBi                             | 29 dBi             |
| VSWR             | GSM: 3.5:1 - UMTS: 2:1 - LTE: 2.5:1 | 2:1                |
| Protection Class | IP41                                |                    |
| Mounting         | Internal adhesive mounting          |                    |

Note



Dimensions



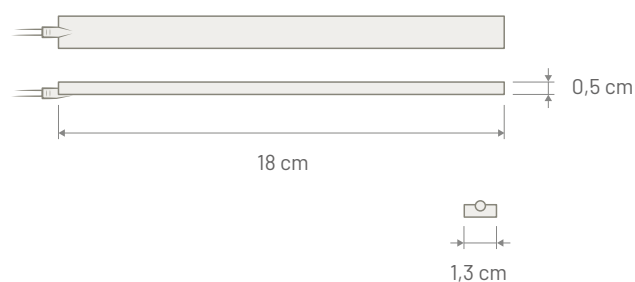
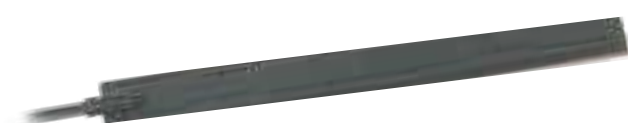
**RUBBER<sup>LTE</sup>****INTERNAL ANTENNA**

P/N: 7681080

**GSM - UMTS - LTE**

|                  |                            |
|------------------|----------------------------|
| Connector        | FAKRA Male Bordeaux        |
| Cable Type       | RG 174                     |
| Cable Length     | 110 mm                     |
| Impedance        | 50 Ω                       |
| Gain             | -4 dBi                     |
| VSWR             | 3,2:1                      |
| Protection Class | IP67                       |
| Mounting         | Internal adhesive mounting |

Note

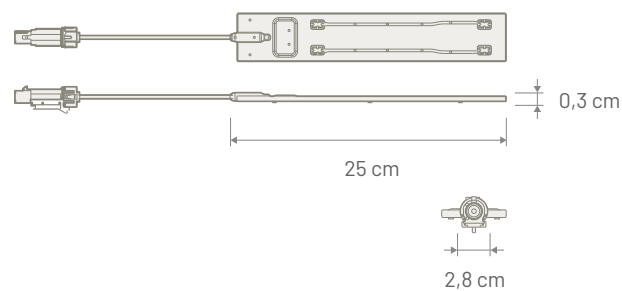
**Dimensions****RUBBER<sup>LTE HP</sup>****NEW****INTERNAL ANTENNA**

P/N: 7681095

**GSM - UMTS - LTE**

|                  |                                |
|------------------|--------------------------------|
| Connector        | FAKRA Male Bordeaux Waterproof |
| Cable Type       | RG 174                         |
| Cable Length     | 110 mm                         |
| Power Supply     | --                             |
| Consumption      | --                             |
| Impedance        | 50 Ω                           |
| Gain             | -3 dBi                         |
| VSWR             | 3,2:1                          |
| Protection Class | IP67                           |
| Mounting         | Internal adhesive mounting     |

Note

**Dimensions**

## NAVI SMALL

## INTERNAL ANTENNA

## AVAILABLE VERSIONS

|                           | CONNECTOR         | CABLE LENGHT | CABLE TYPE |
|---------------------------|-------------------|--------------|------------|
| P/N: 7750004 - NAVI SMALL | SMB Female        | 3500 mm      | RG 174     |
| P/N: 7750006 - NAVI SMALL | FAKRA Female Blue | 3500 mm      | RG 174     |

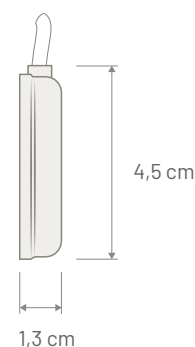
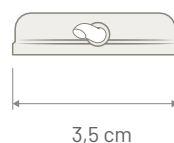
## TECHNICAL SPECIFICATION

|                  | GNSS                       |
|------------------|----------------------------|
| Power Supply     | 3 - 5 Volt Phantom         |
| Consumption      | 22 mA max                  |
| Impedance        | 50 Ω                       |
| Gain             | ≥ 22 dBi                   |
| VSWR             | < 2.1                      |
| Protection Class | IP52                       |
| Mounting         | Internal adhesive mounting |

Note



## Dimensions



## NAVI

## UNIVERSAL ANTENNA

## AVAILABLE VERSIONS

|                                | CONNECTOR         | CABLE LENGHT | CABLE TYPE |
|--------------------------------|-------------------|--------------|------------|
| P/N: 7757001 - NAVI <b>NEW</b> | SMB Female        | 3500 mm      | RG 174     |
| P/N: 7757006 - NAVI <b>NEW</b> | FAKRA Female Blue | 3500 mm      | RG174      |

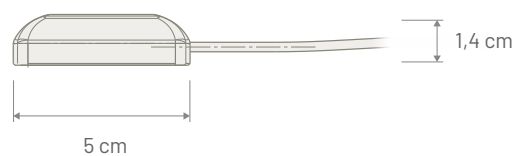
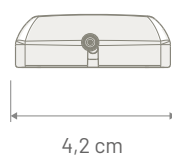
## TECHNICAL SPECIFICATION

|                  | GNSS                                                   |
|------------------|--------------------------------------------------------|
| Power Supply     | 3 - 5 Volt Phantom                                     |
| Consumption      | 45 mA max                                              |
| Impedance        | 50 Ω                                                   |
| Gain             | 28 dB                                                  |
| VSWR             | 1,5:1                                                  |
| Protection Class | IP69k                                                  |
| Mounting         | Internal and external - Magnetic and adhesive mounting |

Note



## Dimensions





## CRITICAL

|                          |    |
|--------------------------|----|
| RADOME .....             | 44 |
| EMERGENCY SERVICES ..... | 45 |
| 16 V .....               | 46 |
| SHARK 2 .....            | 49 |
| RSA .....                | 50 |
| QUAD .....               | 52 |

*Calearo keep an extensive focus on special frequencies used by radio taxi operators, professional communications, police and emergency services. Antennas are available with single and multifunction guarantee functional efficiency and simple installation as well as full integration into the vehicle.*

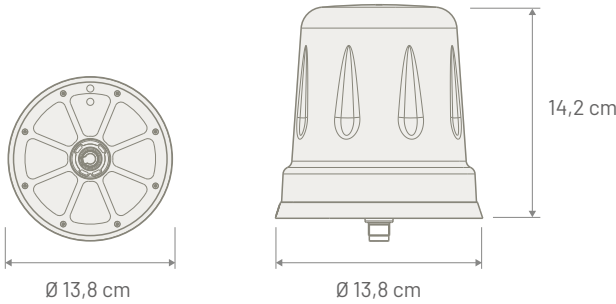


|                             | AVAILABLE VERSIONS                |                                |                  |                  |                    |
|-----------------------------|-----------------------------------|--------------------------------|------------------|------------------|--------------------|
|                             | GSM/UMTS/LTE                      | WIFI/BT                        | TETRA            | UHF              | GNSS               |
| P/N: 7771050 - QUAD         | •                                 | •                              | •                |                  | •                  |
| P/N: 7771060 - TRIPLEX      |                                   | •                              | •                |                  | •                  |
| P/N: 7771070 - DUPLEX UHF   |                                   |                                |                  | •                | •                  |
| P/N: 7771080 - DUPLEX TETRA |                                   |                                | •                |                  | •                  |
| Connector                   | FAKRA Male Bordeaux               | FAKRA Male Violet              | FAKRA Male Green | FAKRA Male Green | FAKRA Male Blu     |
| Cable Type                  | RG 174                            | RG 174                         | RG 174           | RG 174           | RG 174             |
| Cable Lenght                | 250 mm                            | 250 mm                         | 250 mm           | 250 mm           | 220 mm             |
| Power Supply                | --                                | --                             | --               | --               | 3 - 5 Volt Phantom |
| Consumption                 | --                                | --                             | --               | --               | 45 mA max          |
| Impedance                   | 50 Ω                              | 50 Ω                           | 50 Ω             | 50 Ω             | 50 Ω               |
| Gain                        | Peak: 4 dBi<br>Average: -4 dBi    | Peak: 4 dBi<br>Average: -1 dBi | 0 dBi            | 0 dBi            | 32 dBi             |
| VSWR                        | 2,5:1                             | 1,8:1                          | 2:1              | 2:1              | 2:1                |
| Max Power                   | 4 Watt                            | 4 Watt                         | 20 Watt          | 20 Watt          | --                 |
| Protection Class            | IP69                              |                                |                  |                  |                    |
| Mounting                    | On roof                           |                                |                  |                  |                    |
| Coachwork drilling          | Square: 15 x 15 mm - Round: 19 mm |                                |                  |                  |                    |

Note



Dimensions



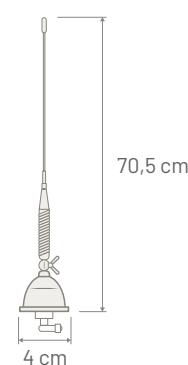
## ES TUNABLE NEW

### TUNABLE ANTENNA FOR EMERGENCY FREQUENCIES

|              |                                               |                    |                           |
|--------------|-----------------------------------------------|--------------------|---------------------------|
| P/N: 7771010 | VHF / UHF / TETRA                             |                    |                           |
| Connector    | Not mounted                                   |                    |                           |
| Cable Type   | RG 58                                         |                    |                           |
| Cable Length | 5000 mm                                       |                    |                           |
| Impedance    | 50 Ω                                          |                    |                           |
| Gain         | 2 dBi                                         |                    |                           |
| VSWR         | < 1,5:1                                       |                    |                           |
| Max Power    | 100 Watt                                      |                    |                           |
| Rod Length   | 655 mm                                        | Mounting           | On roof / Pillar / Fender |
| Rod Type     | Stainless Steel                               | Coachwork drilling | Round: 19 mm              |
| Note         | Omnidirectional 1/4 lambda type - Tunable rod |                    |                           |



### Dimensions



## ES 70/80 MHz

### ROOF ANTENNA

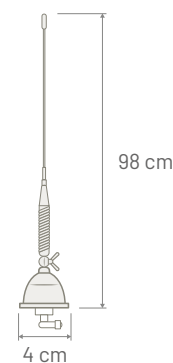
|              |                          |                    |                           |
|--------------|--------------------------|--------------------|---------------------------|
| P/N: 7640006 | 70/80 MHz                |                    |                           |
| Connector    | TNC F                    |                    |                           |
| Cable Type   | Without extension cable* |                    |                           |
| Impedance    | 50 Ohm                   |                    |                           |
| Gain         | 2 dBi                    |                    |                           |
| VSWR         | < 1.5:1                  |                    |                           |
| Max Power    | 100 Watt                 |                    |                           |
| Rod Length   | 950 mm                   | Mounting           | On roof / Pillar / Fender |
| Rod Type     | Fiberglass               | Coachwork drilling | Round: 19 mm              |

### Note

\* P/N 7583040: optional extension cable (type: RG 58 - Length: 5000 mm - Connectors: TNC Male 90°)  
Extension cable with different length or connectors available on request



### Dimensions



## AVAILABLE VERSIONS

|                            | VHF | UHF | GSM/DCS | GNSS |
|----------------------------|-----|-----|---------|------|
| P/N: 7771004 - TRIPLEX UHF |     | •   | •       | •    |
| P/N: 7771005 - TRIPLEX VHF | •   |     | •       | •    |

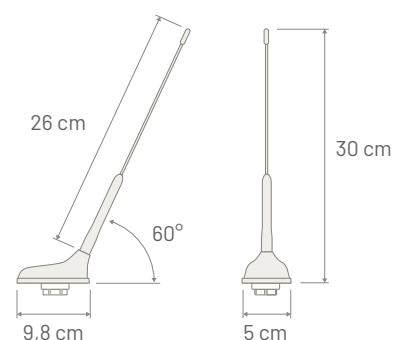
## TECHNICAL SPECIFICATION

|                            | VHF                             | UHF                             | GSM/DCS                            | GNSS                              |
|----------------------------|---------------------------------|---------------------------------|------------------------------------|-----------------------------------|
| Antenna connector          | FAKRA Male Green                | FAKRA Male Green                | FAKRA Male Bordeaux                | FAKRA Male Blue                   |
| Antenna cable type         | RG 174                          | RG 174                          | RG 174                             | RG 174                            |
| Antenna cable lenght       | 200 mm                          | 200 mm                          | 200 mm                             | 220 mm                            |
| Extension cable type       | RG 58                           | RG 58                           | RG 58                              | RG 174                            |
| Extension cable lenght     | 5000 mm                         | 5000 mm                         | 5000 mm                            | 5000 mm                           |
| Extension cable connectors | FAKRA Female Green - FME Female | FAKRA Female Green - FME Female | FAKRA Female Bordeaux - FME Female | FAKRA Female Blue - SMB Female    |
| Power supply               | --                              | --                              | --                                 | 3 - 5 Volt                        |
| Consumption                | --                              | --                              | --                                 | 45 mA max                         |
| Impedance                  | 50 Ω                            | 50 Ω                            | 50 Ω                               | 50 Ω                              |
| Gain                       | 0 dBi                           | -1 dBi                          | Peak: 3 dBi / Average: -3 dBi      | 30 dBi                            |
| VSWR                       | 1.5:1                           | 2:1                             | 3:1                                | 1,5:1                             |
| Max Power                  | 20 Watt                         | 10 Watt                         | 4 Watt                             | --                                |
| Rod Combined Function      | VHF/GSM/DCS                     | UHF/GSM/DCS                     | --                                 | --                                |
| Rod Lenght                 | 380 mm                          | 260 mm                          | --                                 | --                                |
| Rod Type                   | Antinoise                       | Smooth                          | --                                 | --                                |
| Rod Thread                 | M6                              |                                 | Mounting                           | On roof                           |
| Base Angle                 | 60 degree                       |                                 | Coachwork drilling                 | Square: 15 x 15 mm - Round: 19 mm |
| Protection Class           | IP64                            |                                 | Note                               |                                   |

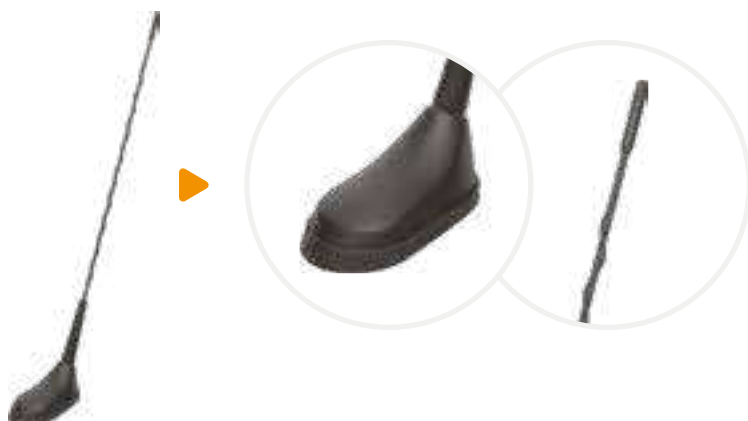
## P/N 7771004 - Triplex UHF



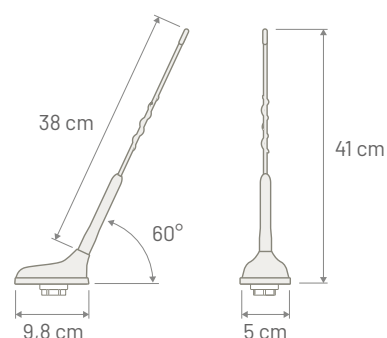
## Dimensions



## P/N 7771005 - Triplex VHF



## Dimensions



## 16V COMBI

## ROOF ANTENNA

## AVAILABLE VERSIONS

P/N: 7771000 - COMBI VHF

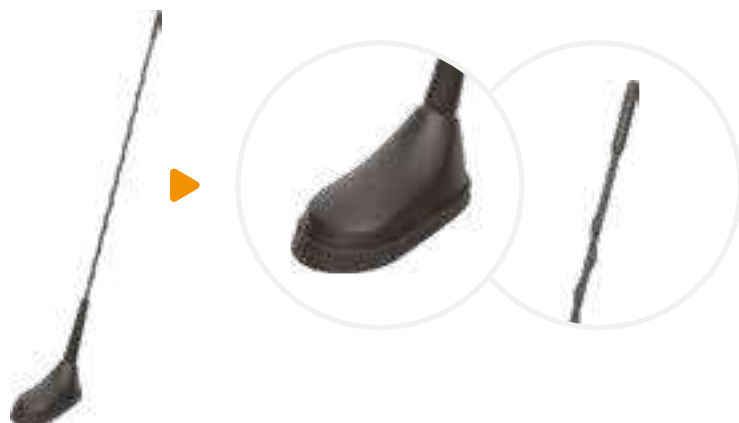
P/N: 7771001 - COMBI UHF

| VHF | UHF | GNSS |
|-----|-----|------|
| •   |     | •    |
|     | •   | •    |

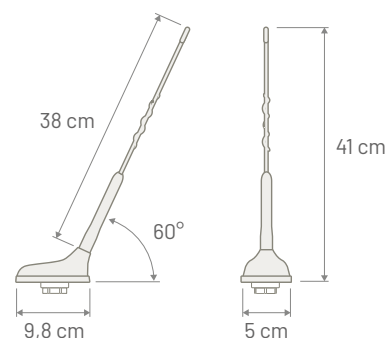
## TECHNICAL SPECIFICATION

|                            | VHF                             | UHF                             | GNSS                              |
|----------------------------|---------------------------------|---------------------------------|-----------------------------------|
| Antenna connector          | FAKRA Male Green                | FAKRA Male Green                | FAKRA Male Blue                   |
| Antenna cable type         | RG 174                          | RG 174                          | RG 174                            |
| Antenna cable lenght       | 250 mm                          | 200 mm                          | 250 mm                            |
| Extension cable type       | RG 58                           | RG 58                           | RG 174                            |
| Extension cable lenght     | 5000 mm                         | 5000 mm                         | 5000 mm                           |
| Extension cable connectors | FAKRA Female Green - FME Female | FAKRA Female Green - FME Female | FAKRA Female Blue - SMB Female    |
| Power supply               | --                              | --                              | 3 - 5 Volt                        |
| Consumption                | --                              | --                              | 45 mA max                         |
| Impedance                  | 50 $\Omega$                     | 50 $\Omega$                     | 50 $\Omega$                       |
| Gain                       | -1 dBi                          | 0 dBi                           | 30 dBi                            |
| VSWR                       | 1,5:1                           | 2,1:1                           | 1,5:1                             |
| Max Power                  | 20 Watt                         | 20 Watt                         | --                                |
| Rod Lenght                 | 380 mm                          | 265 mm                          | --                                |
| Rod Type                   | Antinoise                       | Smooth                          | --                                |
| Rod Thread                 | M6                              | Mounting                        | On roof                           |
| Base Angle                 | 60 degree                       | Coachwork drilling              | Square: 15 x 15 mm - Round: 19 mm |
| Protection Class           | IP64                            | Note                            |                                   |

## P/N 7771000 - Combi VHF



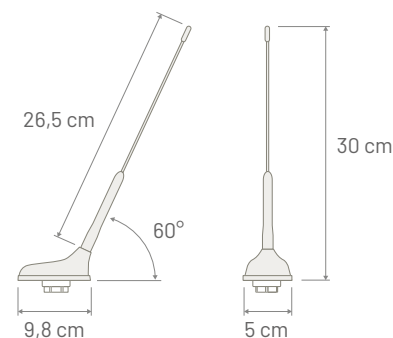
## Dimensions



## P/N 7771001 - Combi UHF



## Dimensions



## AVAILABLE VERSIONS

P/N: 7771002 - VHF

P/N: 7771003 - UHF

| VHF | UHF |
|-----|-----|
| •   |     |
|     | •   |

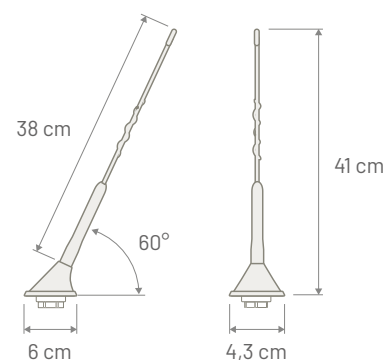
## TECHNICAL SPECIFICATION

|                            | VHF                             | UHF                             |
|----------------------------|---------------------------------|---------------------------------|
| Antenna connector          | FAKRA Male Green                | FAKRA Male Green                |
| Antenna cable type         | RG 174                          | RG 174                          |
| Antenna cable length       | 200 mm                          | 200 mm                          |
| Extension cable type       | RG 58                           | RG 58                           |
| Extension cable length     | 5000 mm                         | 5000 mm                         |
| Extension cable connectors | FAKRA Female Green - FME Female | FAKRA Female Green - FME Female |
| Impedance                  | 50 $\Omega$                     | 50 $\Omega$                     |
| Gain                       | -1 dBi                          | 0 dBi                           |
| VSWR                       | 1,5:1                           | 2.1:1                           |
| Max Power                  | 20 Watt                         | 20 Watt                         |
| Rod Length                 | 380 mm                          | 260 mm                          |
| Rod Type                   | Antinoise                       | Smooth                          |
| Rod Thread                 | M6                              | Mounting                        |
| Base Angle                 | 60 degree                       | Coachwork drilling              |
| Protection Class           | IP64                            | Note                            |

P/N 7771002 - VHF



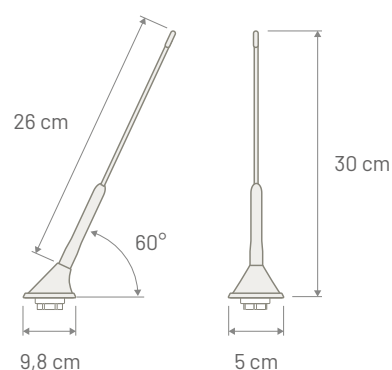
## Dimensions



P/N 7771003 - UHF



## Dimensions



## TRIPLEX<sup>SHORT</sup>

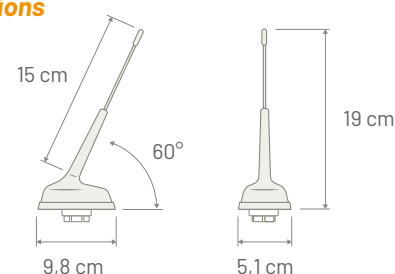
### ROOF ANTENNA

| P/N: 7771040 | TETRA            |  | WIFI / BLUETOOTH  | GNSS                              |
|--------------|------------------|--|-------------------|-----------------------------------|
| Connector    | FAKRA Male Green |  | FAKRA Male Violet | FAKRA Male Blue                   |
| Cable Type   | RG 174           |  | RG 174            | RG 174                            |
| Cable Length | 200 mm           |  | 200 mm            | 250 mm                            |
| Power Supply | --               |  | --                | 3 - 5 Volt Phantom                |
| Consumption  | --               |  | --                | 45 mA max                         |
| Impedance    | 50 Ω             |  | 50 Ω              | 50 Ω                              |
| Gain         | 1 dBi            |  | 0 dBi             | 30 dBi                            |
| VSWR         | 2:1              |  | 2:1               | 1,5:1                             |
| Max power    | 20 Watt          |  | 4 Watt            | --                                |
| Rod Length   | 150 mm           |  | Base Angle        | 60 degree                         |
| Rod Type     | Smooth           |  | Protection Class  | IP69K                             |
| Rod Thread   | M5               |  | Mounting          | Square: 15 x 15 mm - Round: 19 mm |

Note



### Dimensions



## Shark 2

## SHARK 2<sup>TETRA</sup>

NEW

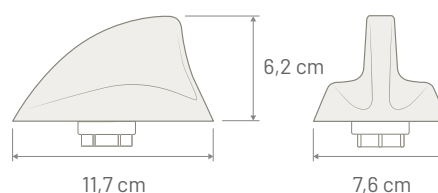
### REAR ROOF ANTENNA

| P/N: 7771015       | TETRA                                       |  |
|--------------------|---------------------------------------------|--|
| Connector          | FAKRA Male Green                            |  |
| Cable Type         | RG 174                                      |  |
| Cable Length       | 250 mm                                      |  |
| Impedance          | 50 Ω                                        |  |
| Gain               | -8 dBi                                      |  |
| VSWR               | 2:1 @ 380 - 400 MHz - 2,5:1 @ 400 - 410 MHz |  |
| Max Power          | 10 Watt                                     |  |
| Protection Class   | IP68                                        |  |
| Mounting           | On roof mounting                            |  |
| Coachwork drilling | Square: 15 x 15 mm - Round: 19 mm           |  |

Note



### Dimensions



**RSA** *QUAD***ROOF ANTENNA**

P/N: 7771020

|                             | TETRA                          | 70/80 MHz          | AM/FM                         | GNSS                                               |
|-----------------------------|--------------------------------|--------------------|-------------------------------|----------------------------------------------------|
| Connector (Base antenna)    | FAKRA Male Green               | --                 | --                            | FAKRA Male BLUE                                    |
| Cable Type (Base antenna)   | RG 174                         | --                 | --                            | RG 174                                             |
| Cable Length (Base antenna) | 200 mm                         | --                 | --                            | 220 mm                                             |
| Connector (Multiplexer)     | IN: TNC Female OUT: BNC FEMale | BNC Female         | BNC Female                    | --                                                 |
| Power supply                | --                             | --                 | Multiplexer: 12 Volt Phantom  | 3 - 5 Volt Phantom                                 |
| Consumption                 | --                             | --                 | Multiplexer: 35 mA max        | 45 mA max                                          |
| Impedance                   | 50Ω                            | 50Ω                | AM: High Impedance - FM: 50 Ω | 50 Ω                                               |
| Gain                        | 0 dBi                          | -5 dBi             | FM: -10 dBi                   | 28 dBi                                             |
| VSWR                        | 2:1                            | 2,5:1              | --                            | 1,7:1                                              |
| Max Power                   | 10 Watt                        | 15 Watt            | --                            | --                                                 |
| Rod Length                  | 550 mm                         | Protection Class   |                               | Antenna: IP69K - Multiplexer: IP42                 |
| Rod Type                    | Antinoise                      | Mounting           |                               | Antenna: on roof - Multiplexer: inside the vehicle |
| Rod Thread                  | M5                             | Coachwork drilling |                               | Square: 15x15 mm - Round: 19 mm                    |
| Base Angle                  | 70 degree                      |                    |                               |                                                    |

**Note**

Extension cable included on the package to connect TETRA output on the antenna base to the Multiplexer  
 Connectors: FAKRA Female Green and TNC Male - Type: RG 58 - Length: 3000 mm

**Dimensions****Dimensions**

## RSA TRIPLEX

## REAR ROOF ANTENNA

| P/N: 7771025                | TETRA                                      | AM/FM                         | GNSS                                               |
|-----------------------------|--------------------------------------------|-------------------------------|----------------------------------------------------|
| Connector (Base antenna)    | FAKRA Male Green                           | --                            | FAKRA Male Blue                                    |
| Cable Type (Base antenna)   | RG 174                                     | --                            | RG 174                                             |
| Cable Length (Base antenna) | 200 mm                                     | --                            | 220 mm                                             |
| Connector (Diplexer)        | IN: FAKRA Male Black OUT: FAKRA Male Green | FAKRA Male White              | --                                                 |
| Power supply                | --                                         | Diplexer: 12 Volt Dedicated   | 3 - 5 Volt Phantom                                 |
| Consumption                 | --                                         | Diplexer: 35 mA max           | 45 mA max                                          |
| Impedance                   | 50 Ω                                       | AM: High Impedance - FM: 50 Ω | 50 Ω                                               |
| Gain                        | 0 dBi                                      | FM: -10 dBi                   | 32 dBi                                             |
| VSWR                        | 2:1                                        | --                            | 2:1                                                |
| Max Power                   | 10 Watt                                    | --                            | --                                                 |
| Rod Length                  | 550 mm                                     | Protection Class              | Antenna: IP69K - Diplexer: IP42                    |
| Rod Type                    | Antinoise                                  | Mounting                      | Antenna: on roof - Multiplexer: inside the vehicle |
| Rod Thread                  | M5                                         | Coachwork drilling            | Square: 15x15 mm - Round: 19 mm                    |
| Base Angle                  | 70 degree                                  |                               |                                                    |

## Note

Adapter cable included on the package to connect TETRA output on the antenna base to the Diplexer  
Connectors: FAKRA Female Green and FAKRA Female Black - Type: RG 174 - Length: 150 mm

## Dimensions



## Dimensions

MIB QUAD

ROOF ANTENNA

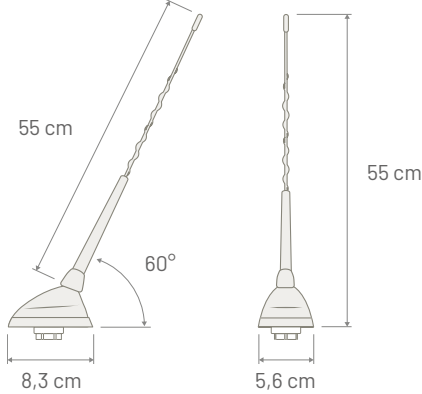
|                          |                                                    |            |                               |                        |
|--------------------------|----------------------------------------------------|------------|-------------------------------|------------------------|
| P/N: 7771030             | TETRA                                              | 70/80 MHz  | AM/FM                         | GNSS                   |
| Connector (Base antenna) | FAKRA Male Green                                   | --         | --                            | FAKRA Male Blue        |
| Connector (Multiplexer)  | IN: TNC Female OUT: BNC Female                     | BNC Female | BNC Female                    | --                     |
| Power supply             | --                                                 | --         | Multiplexer: 12 Volt Phantom  | 4.5 - 5.5 Volt Phantom |
| Consumption              | --                                                 | --         | Multiplexer: 35 mA max        | 20mA max               |
| Impedance                | 50 Ω                                               | 50 Ω       | AM: High Impedance - FM: 50 Ω | 50 Ω                   |
| Gain                     | 0 dBi                                              | -5 dBi     | FM: -10 dBi                   | 32 dBi                 |
| VSWR                     | 2:1                                                | 2,5:1      | --                            | 2:1                    |
| Max Power                | 10 Watt                                            | 15 Watt    | --                            | --                     |
| Rod Lenght               | 545 mm                                             |            |                               |                        |
| Rod Type                 | Antinoise                                          |            |                               |                        |
| Rod Thread               | M5                                                 |            |                               |                        |
| Base Angle               | 60 degree                                          |            |                               |                        |
| Protection Class         | Antenna : IP69K - Multiplexer: IP42                |            |                               |                        |
| Mounting                 | Antenna: on roof - Multiplexer: inside the vehicle |            |                               |                        |
| Coachwork drilling       | Square: 31,6 x 33,6 mm (VW Group MIB on roof hole) |            |                               |                        |

Note

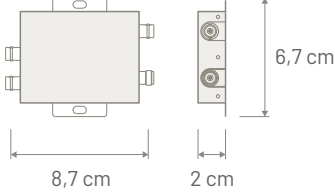
Extension cable included on the package to connect TETRA output on the antenna base to the Multiplexer  
Connectors: FAKRA Female Green and TNC Male - Type: RG 58 - Lenght: 3000 mm



Dimensions



55 cm  
60°  
8,3 cm  
5,6 cm



Dimensions

8,7 cm  
6,7 cm  
2 cm





## BUILDINGS

|                  |    |
|------------------|----|
| ARRAY .....      | 56 |
| FIBERGLASS ..... | 57 |
| COMPACT .....    | 58 |
| MODEM .....      | 59 |

*Calearo offers a range of highly professional antennas with WI-FI, GSM, UMTS, LTE and Bluetooth bands for professional application like base station, industrial automation, remote control and M2M communications.*



ARRAY FULL<sup>LTE</sup>

## OMNIDIRECTIONAL ANTENNA

## AVAILABLE VERSIONS

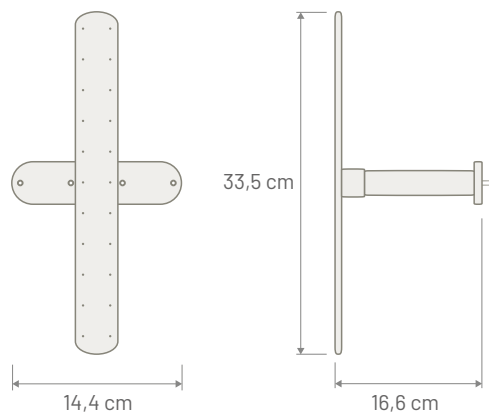
|              | CONNECTOR  | CABLE LENGTH | CABLE TYPE |
|--------------|------------|--------------|------------|
| P/N: 8610138 | SMA Male   | 5000 mm      | Low Loss   |
| P/N: 8610139 | FME Female | 5000 mm      | Low Loss   |
| P/N: 8610141 | SMA Male   | 10000 mm     | Low Loss   |
| P/N: 8610142 | SMA Male   | 12000 mm     | Low Loss   |

## TECHNICAL SPECIFICATION

|                  | GSM - LTE                                                                        | DCS             | UMTS            | WIFI - LTE      |
|------------------|----------------------------------------------------------------------------------|-----------------|-----------------|-----------------|
| Frequency        | 790 ÷ 960 MHz                                                                    | 1710 ÷ 1880 MHz | 1920 ÷ 2170 MHz | 2400 ÷ 2700 MHz |
| Impedance        | 50 Ohm                                                                           | 50 Ohm          | 50 Ohm          | 50 Ohm          |
| Gain             | 5 dBi                                                                            | 5 dBi           | 6 dBi           | 5 dBi           |
| VSWR             | < 2.5                                                                            | < 2.0           | < 2.0           | < 2.0           |
| Max Power        | 20 Watt                                                                          | 10 Watt         | 10 Watt         | 6 Watt          |
| Protection Class | IP54                                                                             |                 |                 |                 |
| Mounting         | On mast with special bracket (included) / On wall with two screws (not included) |                 |                 |                 |

**Note** The special bracket is compatible with mast diameter between 25 to 42 mm

## Dimensions



**FIBERGLASS FULL** <sup>LTE</sup>**OMNIDIRECTIONAL ANTENNA**

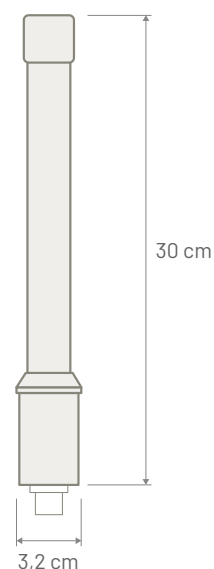
## AVAILABLE VERSIONS

|              | CONNECTOR | CABLE LENGHT            | CABLE TYPE              |
|--------------|-----------|-------------------------|-------------------------|
| P/N: 8610155 | N Female  | without extension cable | without extension cable |
| P/N: 8610156 | SMA Male  | 5000 mm                 | Low Loss                |

## TECHNICAL SPECIFICATION

|                  | LTE - ISM - GSM                                         | DCS - PCN - DECT - UMTS - WIFI |
|------------------|---------------------------------------------------------|--------------------------------|
| Frequency        | 790 ÷ 960 MHz                                           | 1710 ÷ 2700 MHz                |
| Impedance        | 50 Ohm                                                  | 50 Ohm                         |
| Gain             | 2 dBi                                                   | 4 dBi                          |
| VSWR             | < 2.2                                                   | < 2.2                          |
| Max Power        | 25 Watt                                                 | 25 Watt                        |
| Protection Class | IP54                                                    |                                |
| Mounting         | On mast / On wall with special steel bracket (included) |                                |

**Note** The special bracket is compatible with mast diameter between 35 to 42 mm

**Dimensions****Mounting scheme**

COMPACT FULL<sup>LTE</sup>

## DIRECTIONAL ANTENNA

## AVAILABLE VERSIONS

|              | CONNECTOR  | CABLE LENGHT | CABLE TYPE |
|--------------|------------|--------------|------------|
| P/N: 8610144 | SMA Male   | 5000 mm      | Low Loss   |
| P/N: 8610145 | FME Female | 5000 mm      | Low Loss   |

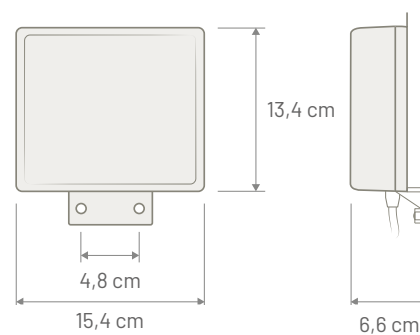
## TECHNICAL SPECIFICATION

|                  | LTE - GSM         | DCS             | UMTS            | LTE - WIFI        |
|------------------|-------------------|-----------------|-----------------|-------------------|
| Frequency        | 790 ÷ 960 MHz     | 1710 ÷ 1880 MHz | 1920 ÷ 2170 MHz | 2300 - 2700 MHz   |
| Impedance        | 50 Ohm            | 50 Ohm          | 50 Ohm          | 50 Ohm            |
| Gain             | 6,5 dBi ± 0,5 dBi | 9 dBi           | 9 dBi           | 8,5 dBi ± 0,5 dBi |
| VSWR             | < 2.0             | < 2.0           | < 2.0           | < 2.0             |
| Max Power        | 30 Watt           | 15 Watt         | 10 Watt         | 10 Watt           |
| Protection Class | IP54              |                 |                 |                   |
| Mounting         | On mast / On wall |                 |                 |                   |

Note



## Dimensions



## MONOPOLE EVOLUTION TRIBAND

OMNIDIRECTIONAL ANTENNA

## AVAILABLE VERSIONS

|              | CONNECTOR    |
|--------------|--------------|
| P/N: 8610103 | SMA Male 90° |
| P/N: 8610118 | FME Female   |

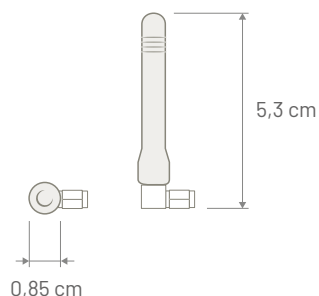
## TECHNICAL SPECIFICATION

|           | GSM - DCS/UMTS - WIFI/BLUETOOTH                                |
|-----------|----------------------------------------------------------------|
| Impedance | 50 Ohm                                                         |
| Gain      | 2.2 dBi                                                        |
| VSWR      | < 2:1                                                          |
| Max Power | 2.5 Watt                                                       |
| Mounting  | Directly to the modem antenna connector or the extension cable |

Note

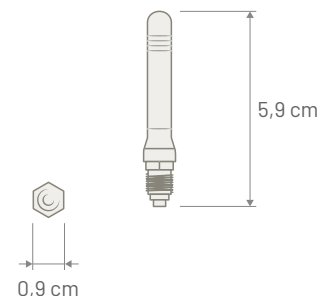
P/N 8610103

Dimensions



P/N 8610118

Dimensions



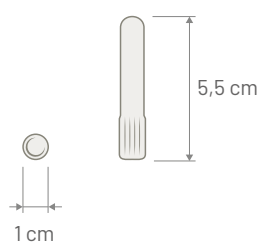
## MONOPOLE DUAL BAND

OMNIDIRECTIONAL ANTENNA

| P/N: 8610010   | GSM / DCS                                                      |
|----------------|----------------------------------------------------------------|
| Connector type | SMA Male                                                       |
| Impedance      | 50 Ohm                                                         |
| Gain           | 2.15 dBi                                                       |
| VSWR           | ≤ 2:1                                                          |
| Max Power      | 4 watt                                                         |
| Mounting       | Directly to the modem antenna connector or the extension cable |

Note

Dimensions





## SERVICE BOX

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|                   |    |
|-------------------|----|
| DAB & PLAY .....  | 62 |
| SPLITTER .....    | 64 |
| LOCATIONING ..... | 66 |
| RADIO .....       | 67 |

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*The Service Box range allow to manage the antenna signals  
for split, amplified or recover some specific functions.  
They works with Calearo antennas and with some OEM antennas.*

**DAB & PLAY** *ACTIVE***AMPLIFIER**

## AVAILABLE VERSIONS

**MAIN APPLICATION****P/N: 7590007 - AMPLIFIER**

Seat Leon (5F) - Skoda Fabia (NJ) and Octavia (5E) - Volkswagen Golf 6, Golf 7, Tiguan (5N) and Touran (5T)

**P/N: 7590009 - AMPLIFIER**

Volkswagen Passat (B7) and Passat (B8)

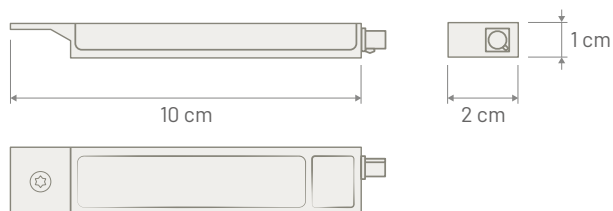
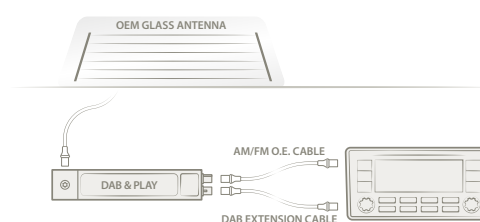
## TECHNICAL SPECIFICATION

**FM / DAB**

|                            |                                                                                                  |
|----------------------------|--------------------------------------------------------------------------------------------------|
| Short description          | Replace the original FM amplifier to add DAB antenna prepared on the original rear or side glass |
| Connector                  | DOUBLE FAKRA Male Black                                                                          |
| Extension Cable Connectors | DOUBLE FAKRA Female Black and SMB Female                                                         |
| Extension Cable Type       | RG 174                                                                                           |
| Extension Cable Length     | 6500 mm                                                                                          |
| Power Supply               | 8,5 ÷ 12 Volt Phantom                                                                            |
| Consumption                | 50 mA max                                                                                        |
| Impedance                  | 50 Ohm                                                                                           |
| Gain                       | FM: 6 dB / DAB: 19 dB                                                                            |
| VSWR                       | < 2:1                                                                                            |
| Protection Class           | IP52                                                                                             |
| Mounting                   | Replace the original amplifier                                                                   |

**Note**

DAB&amp;PLAY amplifier work in selected Volkswagen, Seat and Skoda vehicles with prepared DAB antenna into the original glass

**Dimensions****Mounting scheme**

DAB & PLAY <sup>PASSIVE</sup>

BY-PASS

## AVAILABLE VERSIONS

## MAIN APPLICATION

P/N: 7590008 - PASSIVE BY-PASS

Volkswagen, Seat and Skoda vehicles with prepared on glass original DAB antenna  
 Note: the by-pass must be completed with Active Splitter <sup>P/N</sup> 7561004 and adapters cables sold separately

P/N: 7590013 - PASSIVE BY-PASS KIT

Volkswagen Golf 6 and 7  
 Note: by-pass is complete with the Active Splitter <sup>P/N</sup> 7561004 and a special cables kit for Volkswagen head unit

## TECHNICAL SPECIFICATION

## FM / DAB

|                   |                                                                                                  |
|-------------------|--------------------------------------------------------------------------------------------------|
| Short description | Replace the original FM amplifier to add DAB antenna prepared on the original rear or side glass |
| Connector         | FAKRA Male Waterblue                                                                             |
| Impedance         | 50 Ohm                                                                                           |
| Protection Class  | IP52                                                                                             |
| Mounting          | Replace the original amplifier                                                                   |

## Note

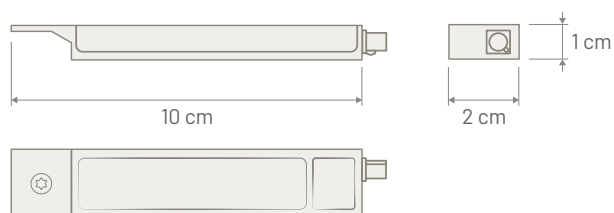
The <sup>P/N</sup> 7590008 is suitable only for a head unit with hybrid tuner (FM and DAB with only one antenna connector), or combined with Active Splitter and cables kit

The <sup>P/N</sup> 7590013 is suitable for any application with original VW head unit or aftermarket head unit with Fakra connectors

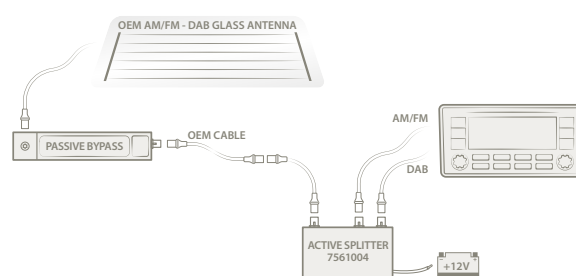
DAB&PLAY passive by-pass work only in Volkswagen vehicle with prepared DAB antenna into the original glass.  
 Contact your car dealer to check if glass is prepared



## Dimensions



## Mounting scheme



**ACTIVE SPLITTER** AM / FM / DAB**SPLITTER**

## AVAILABLE VERSIONS

## ADAPTER CABLES

P/N: 7561004 - ACTIVE SPLITTER

Without adapter cables into the package

P/N: 7562030 - ACTIVE SPLITTER KIT DIN

Antenna IN: DIN Female / AM/FM OUT: DIN Male / DAB OUT: SMB Female 90° / Length: 500 mm

P/N: 7132087 - ACTIVE SPLITTER KIT DIN/ISO

Antenna IN: ISO Female / AM/FM OUT: DIN Male / DAB OUT: SMB Female 90° / Length: 500 mm

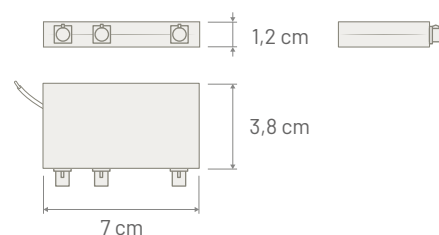
## TECHNICAL SPECIFICATION

## AM / FM / DAB

|                            |                                                                                                           |
|----------------------------|-----------------------------------------------------------------------------------------------------------|
| Short description          | AM/FM/DAM Splitter allow to recover the DAB signals from an AM/FM passive antenna ready for digital radio |
| Active Splitter Connectors | FAKRA Male Waterblue for IN and OUT                                                                       |
| Power Supply               | 12 Volt dedicated                                                                                         |
| Consumption                | 110 mA                                                                                                    |
| Impedance                  | 50 Ohm                                                                                                    |
| Gain                       | AM: 25 dB / FM: 12 dB / DAB: 20 dB                                                                        |
| VSWR                       | FM: 3 : 1 / DAB: 2.5 : 1                                                                                  |
| Protection Class           | IP40                                                                                                      |
| Mounting                   | Internal of the vehicle with double-sided tape or plastic ties                                            |

Note The AM/FM/DAB Active Splitter work only with AM/FM passive antennas prepared to receive the DAB signals  
The AM/FM/DAB Active Splitter is not suitable for active antenna systems

## Dimensions

**CABLE FOR ACTIVE AND PASSIVE SPLITTER** AM / FM / DAB

## AVAILABLE VERSIONS

|              | SPLITTER CONNECTOR SIDE | CABLE TYPE | CABLE LENGTH | ANTENNA / TUNER CONNECTOR SIDE |
|--------------|-------------------------|------------|--------------|--------------------------------|
| P/N: 7132078 | FAKRA Female Waterblue  | RG 174     | 500 mm       | ISO Female                     |
| P/N: 7132079 | FAKRA Female Waterblue  | RG 58      | 500 mm       | DIN Male                       |
| P/N: 7132080 | FAKRA Female Waterblue  | RG 174     | 500 mm       | ISO Male                       |
| P/N: 7132081 | FAKRA Female Waterblue  | RG 174     | 500 mm       | FAKRA Male Waterblue           |

Note Adapter cables could be used for any other applications

# PASSIVE SPLITTER AM / FM / DAB NEW

SPLITTER

## AVAILABLE VERSIONS

## ADAPTER CABLES

P/N: 7561006 - PASSIVE SPLITTER

P/N: 7561007 - PASSIVE SPLITTER KIT DIN

P/N: 7561008 - PASSIVE SPLITTER KIT DIN/ISO

Without adapter cables into the package

Antenna IN: DIN Female / AM/FM OUT : DIN Male / DAB: SMB Female 90°

Antenna IN: ISO Female / AM/FM OUT : DIN Male / DAB: SMB Female 90°

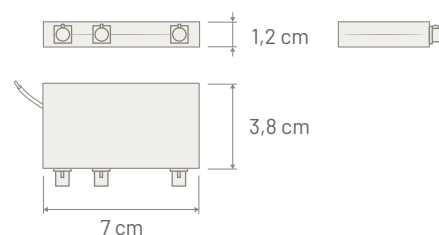
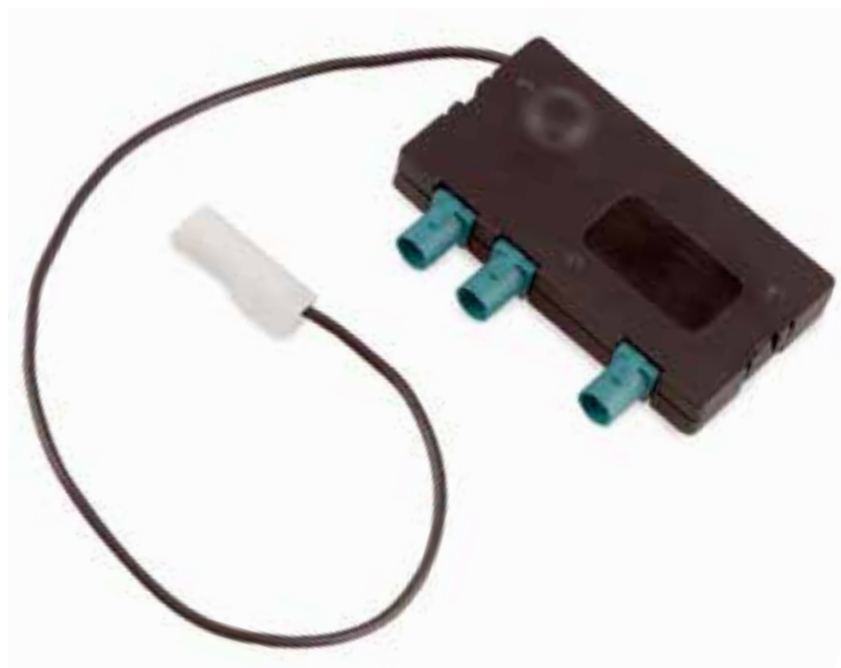
## TECHNICAL SPECIFICATION

## AM / FM / DAB

|                            |                                                                                                                             |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Short description          | AM/FM/DAM Passive Splitter allow to recover the DAB signals from an AM/FM active or passive antenna ready for digital radio |
| Active Splitter Connectors | FAKRA Male Waterblue for IN and OUT                                                                                         |
| Power Supply               | --                                                                                                                          |
| Consumption                | --                                                                                                                          |
| Impedance                  | 50 Ohm                                                                                                                      |
| Gain                       | -2 dB                                                                                                                       |
| VSWR                       | FM: 2 : 1 / DAB: 2 : 1                                                                                                      |
| Protection Class           | IP40                                                                                                                        |
| Mounting                   | Internal of the vehicle with adhesive tape or plastic cable tie                                                             |

**Note** The AM/FM/DAB Passive Splitter work only with AM/FM active or passive antennas ready to receive the DAB signals  
The AM/FM/DAB Passive Splitter is suitable for active antenna with 12 Volt phantom supply

## Dimensions



## AVAILABLE VERSIONS

|              | SPLITTER CONNECTOR SIDE | CABLE TYPE | CABLE LENGHT | ANTENNA / TUNER CONNECTOR SIDE |
|--------------|-------------------------|------------|--------------|--------------------------------|
| P/N: 7132082 | FAKRA Female Waterblue  | RG 174     | 500 mm       | SMB Female 90°                 |
| P/N: 7132083 | FAKRA Female Waterblue  | RG 174     | 500 mm       | SMA Male                       |
| P/N: 7132084 | FAKRA Female Waterblue  | RG 174     | 500 mm       | FAKRA Female Waterblue         |
| P/N: 7132085 | FAKRA Female Waterblue  | RG 58      | 500 mm       | DIN Female                     |

**Note** Adapter cables could be used for any other applications

GNSS SPLITTER

SPLITTER

P/N: 7562019

MAIN APPLICATION

GNSS Splitter allow to connect two different devices to a same GNSS antenna

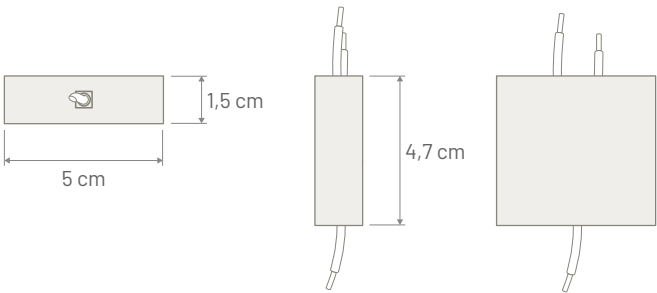
TECHNICAL SPECIFICATION

|                                  |                     |
|----------------------------------|---------------------|
| GNSS Antenna side : Connector    | FAKRA Male Blue     |
| GNSS Antenna side : Cable Lenght | 150 mm              |
| GNSS Antenna side : Cable Type   | RG 174              |
| Device side : Connector          | FAKRA Female Blue   |
| Device side : Cable Lenght       | 480 mm              |
| Device side : Cable Type         | RG 174              |
| Power Supply                     | 3 - 5 Volt Phantom  |
| Consumption                      | 45 mA max           |
| Impedance                        | 50 Ω                |
| Gain                             | -4,5 dB             |
| VSWR                             | 2:1                 |
| Protection Class                 | IP 42               |
| Mounting                         | Internal / Adhesive |

Note



Dimensions



DIVERSITY ADAPTER

ADAPTER

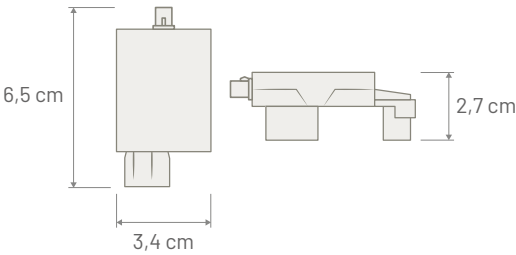
|              | MAIN APPLICATION                                   |
|--------------|----------------------------------------------------|
| P/N: 7562016 | Volkswagen Group vehicles without diversity system |

| TECHNICAL SPECIFICATION         |                                                                                                                        |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Short description               | Radio Diversity adapter allow to install an original VW radio with diversity system in a vehicle with standard antenna |
| Connector Original Antenna Side | FAKRA Male White                                                                                                       |
| Connector VW Radio Side         | DOUBLE FAKRA Female White                                                                                              |
| Power Supply                    | 12 Volt phantom                                                                                                        |
| Consumption                     | 15 mA max                                                                                                              |
| Gain                            | 0 dB                                                                                                                   |
| Mounting                        | Rear of original VW radio - adhesive mounting                                                                          |

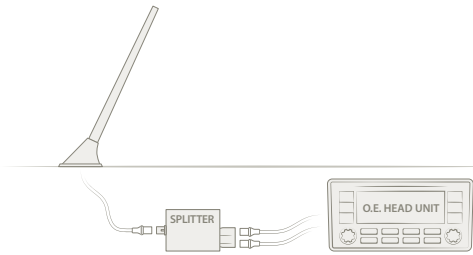
Note



Dimensions



Mounting scheme





## ***ADAPTERS & CABLES***

---

|                           |           |
|---------------------------|-----------|
| ADAPTERS .....            | <b>70</b> |
| EXTENSION CABLES.....     | <b>73</b> |
| TABLE OF CONNECTORS ..... | <b>75</b> |

---

**AM/FM ADAPTER CABLES****FOR CALEARO ANTENNAS**

|                     | ANTENNA SIDE           | CABLE TYPE | CABLE LENGHT | ORIGINAL CABLE SIDE            | COMPATIBILITY                                                      |
|---------------------|------------------------|------------|--------------|--------------------------------|--------------------------------------------------------------------|
| <b>P/N: 7581160</b> | FAKRA Female White     | RG58       | 150 mm       | BPN Male                       | Audi > 1994 / Opel > 2001                                          |
| <b>P/N: 7581161</b> | FAKRA Female White     | RG58       | 150 mm       | ROKA Male                      | Audi 1994 <> 2001<br>Volvo V40 > 2004 / Mini > 2005                |
| <b>P/N: 7581162</b> | FAKRA Female White     | RG174      | 1200 mm      | FAKRA Female White / Waterblue | FCA 2010 > / PSA 2010 ><br>FORD > 2019                             |
| <b>P/N: 7581163</b> | FAKRA Female White     | 75 Ohm     | 1170 mm      | HC 97 Female (RAKU 2 Female)   | Renault > 2009 / PSA > 2009                                        |
| <b>P/N: 7581164</b> | FAKRA Female Waterblue | RG174      | 1200 mm      | FAKRA Male Waterblue           | Renault (AM/FM and DAB cables) 2009 ><br>Nissan (DAB cable) 2012 > |
| <b>P/N: 7581165</b> | FAKRA Female White     | 75 Ohm     | 150 mm       | DIN Male                       | Vehicles with DIN Female connector on the original cable           |
| <b>P/N: 7581166</b> | FAKRA Female White     | RG174      | 220 mm       | Opel 4 POLE                    | Opel > 2010                                                        |
| <b>P/N: 7581167</b> | FAKRA Female White     | RG174      | 200 mm       | GT13 Female (GT13SS-1/1S-HU)   | Nissan (AM/FM cable) 2012 >                                        |
| <b>P/N: 7581168</b> | FAKRA Female White     | RG174      | 200 mm       | GT13 Female (GT13SC-1/1S-HU)   | Suzuki 2012 >                                                      |

**Note** Adapter cables for AM/FM function to connect a Calearo Antenna with FAKRA Male White connector to the car original cable

**AM/FM ADAPTER CABLE****FOR CAR RADIO**

|                     | ORIGINAL CABLE SIDE      | CABLE TYPE | CABLE LENGHT | CAR RADIO SIDE | COMPATIBILITY               |
|---------------------|--------------------------|------------|--------------|----------------|-----------------------------|
| <b>P/N: 7581101</b> | FAKRA Male White / Black | RG174      | 150 mm       | ISO Male       | BMW / Mercedes / PSA / Opel |

**Note** Adapter cables for AM/FM function to connect the car original cable with FAKRA Female Connector to an AfterMarket car radio

**AM/FM COMPACT ISO/DIN CONNECTOR ADAPTERS**

|                     | DESCRIPTION                           |
|---------------------|---------------------------------------|
| <b>P/N: 7420002</b> | Change ISO Male Connector to DIN Male |
| <b>P/N: 7420003</b> | Change DIN Male Connector to ISO Male |

**Note**

**AM/FM DIN CONNECTOR FOR WELDING**

|                     | DESCRIPTION                               |
|---------------------|-------------------------------------------|
| <b>P/N: 7130003</b> | DIN Male Connector for on cable welding   |
| <b>P/N: 7542030</b> | DIN Female Connector for on cable welding |

**Note**

**DAB PHANTOM FEEDING ADAPTER****FOR DAB ANTENNAS**

|                     | ORIGINAL CABLE SIDE | CABLE LENGHT | HEAD UNIT SIDE | POWER SUPPLY |
|---------------------|---------------------|--------------|----------------|--------------|
| <b>P/N: 7581134</b> | SMB Male            | 250 mm       | SMB Female     | 12 Volt      |

**Note** Housing for change the SMB Female connector to FAKRA Female connector included into the package



**AM/FM PHANTOM FEEDING ADAPTERS**

FOR AM/FM ANTENNAS

|              | ORIGINAL CABLE SIDE | CABLE LENGHT | HEAD UNIT SIDE | POWER SUPPLY |
|--------------|---------------------|--------------|----------------|--------------|
| P/N: 7581059 | ISO Female          | 240 mm       | DIN Male       | 12 Volt      |



FOR AM/FM ANTENNAS

|              | ORIGINAL CABLE SIDE  | CABLE LENGHT | HEAD UNIT SIDE | POWER SUPPLY |
|--------------|----------------------|--------------|----------------|--------------|
| P/N: 7581107 | FAKRA Male Waterblue | 250 mm       | ISO Male       | 12 Volt      |



FOR AM/FM ANTENNAS WITH DIVERSITY SYSTEM

|              | ORIGINAL CABLE SIDE      | CABLE LENGHT | HEAD UNIT SIDE | POWER SUPPLY |
|--------------|--------------------------|--------------|----------------|--------------|
| P/N: 7581135 | FAKRA Male Waterblue x 2 | 400 mm       | DIN Male       | 12 Volt      |

**DTT ADAPTERS**

FOR CALEARO TV ANTENNAS

|              | CABLE ANTENNA SIDE | CABLE TYPE     | CABLE LENGHT | DEVICE SIDE        | NOTE                                                                                         |
|--------------|--------------------|----------------|--------------|--------------------|----------------------------------------------------------------------------------------------|
| P/N: 7132020 | JACK Female 3,5 mm | 75 Ohm coaxial | 200 mm       | F Male             | Adapters to change the F Female connector to IEC Male and IEC Female included in the package |
| P/N: 7132074 | JACK Female 3,5 mm | 75 Ohm coaxial | 200 mm       | FAKRA Female Green |                                                                                              |
| P/N: 7581157 | FAKRA Male Green   | 75 Ohm coaxial | 150 mm       | F Male             | Adapters to change the F Female connector to IEC Male and IEC Female included in the package |

Note

**SMB ADAPTER CABLES**

|              | ANTENNA CABLE SIDE | CABLE TYPE | CABLE LENGHT | DEVICE SIDE                   | NOTE                                                      |
|--------------|--------------------|------------|--------------|-------------------------------|-----------------------------------------------------------|
| P/N: 7181113 | SMB Male           | RG174      | 120 mm       | GT 16 Female (GT16F-1S-HU(B)) | Pioneer GPS Receiver                                      |
| P/N: 7581106 | SMB Male           | RG174      | 120 mm       | MCX Male                      |                                                           |
| P/N: 7581109 | SMB Male           | RG174      | 120 mm       | SMA Male                      |                                                           |
| P/N: 7581077 | SMB Male           | RG174      | 150 mm       | GT 5 Female (GT5-1S-HU)       | Alpine GPS Receiver                                       |
| P/N: 7581118 | SMB Male           | RG174      | 150 mm       | SMB Female 90°                |                                                           |
| P/N: 7581123 | SMB Male           | RG174      | 200 mm       | FAKRA Female                  | Blue, Black and Waterblue housing supplied in the package |

Note

**FME ADAPTER CABLES**

|              | ANTENNA CABLE SIDE | CABLE TYPE | CABLE LENGHT | DEVICE SIDE               |
|--------------|--------------------|------------|--------------|---------------------------|
| P/N: 7127220 | FME Male           | RG174      | 200 mm       | MCX Male                  |
| P/N: 7131041 | FME Male           | RG174      | 150 mm       | MMCX Male 90°             |
| P/N: 7581122 | FME Male           | RG174      | 200 mm       | FAKRA Female Bordeaux     |
| P/N: 7581105 | FME Male           | RG174      | 200 mm       | FAKRA Female 90° Bordeaux |

Note

**FME ADAPTER CONNECTORS**

|              | ANTENNA CABLE SIDE | DEVICE SIDE |
|--------------|--------------------|-------------|
| P/N: 7131003 | FME Male           | BNC         |
| P/N: 7131005 | FME Male           | MINI UHF    |
| P/N: 7131006 | FME Male           | TNC         |
| P/N: 7131009 | FME Male           | SMA Male    |
| P/N: 7131011 | FME Male           | FME Male    |

Note

**FME CONNECTOR FOR WELDING**

|              | DESCRIPTION                                    |
|--------------|------------------------------------------------|
| P/N: 7131004 | FME Female Connector for on cable RG58 WELDING |

Note

**FAKRA ADAPTER CABLES**

|              | ANTENNA CABLE SIDE     | CABLE TYPE | CABLE LENGHT | DEVICE SIDE            |
|--------------|------------------------|------------|--------------|------------------------|
| P/N: 7581071 | FAKRA Male Waterblue   | RG174      | 150 mm       | SMA Male               |
| P/N: 7581072 | FAKRA Male Waterblue   | RG174      | 150 mm       | SMB Female 90°         |
| P/N: 7132078 | FAKRA Female Waterblue | RG 174     | 500 mm       | ISO Female             |
| P/N: 7132079 | FAKRA Female Waterblue | RG 58      | 500 mm       | DIN Male               |
| P/N: 7132080 | FAKRA Female Waterblue | RG 174     | 500 mm       | ISO Male               |
| P/N: 7132081 | FAKRA Female Waterblue | RG 174     | 500 mm       | FAKRA Male Waterblue   |
| P/N: 7132082 | FAKRA Female Waterblue | RG 174     | 500 mm       | SMB Female 90°         |
| P/N: 7132083 | FAKRA Female Waterblue | RG 174     | 500 mm       | SMA Male               |
| P/N: 7132084 | FAKRA Female Waterblue | RG 174     | 500 mm       | FAKRA Female Waterblue |
| P/N: 7132085 | FAKRA Female Waterblue | RG 58      | 500 mm       | DIN Female             |

Note

## FAKRA/DIN EXTENSION CABLES FOR AM/FM WITH PHANTOM FEEDING

|              | ANTENNA SIDE       | CABLE TYPE | CABLE LENGHT | DEVICE SIDE |
|--------------|--------------------|------------|--------------|-------------|
| P/N: 7561011 | FAKRA Female White | RG58       | 3 meters     | DIN Male    |
| P/N: 7561012 | FAKRA Female White | RG58       | 5 meters     | DIN Male    |
| P/N: 7561013 | FAKRA Female White | RG58       | 7 meters     | DIN Male    |
| P/N: 7561014 | FAKRA Female White | RG58       | 9 meters     | DIN Male    |
| P/N: 7561015 | FAKRA Female White | RG58       | 12 meters    | DIN Male    |

**Note** Black, Blue and Waterblue housing for FAKRA Female connector included in the package

## FAKRA EXTENSION CABLES FOR AM/FM-DAB-DTT WITH ADDITIONAL CABLE FOR DEDICATED POWER SUPPLY

|              | ANTENNA SIDE           | CABLE TYPE     | CABLE LENGHT | DEVICE SIDE            | APPLICATION       |
|--------------|------------------------|----------------|--------------|------------------------|-------------------|
| P/N: 7581173 | FAKRA Female White     | 75 Ohm coaxial | 3 meters     | ISO Male               | AM/FM             |
| P/N: 7581175 | FAKRA Female White     | 75 Ohm coaxial | 5 meters     | ISO Male               | AM/FM             |
| P/N: 7581177 | FAKRA Female White     | 75 Ohm coaxial | 7 meters     | ISO Male               | AM/FM             |
| P/N: 7581183 | FAKRA Female White     | 75 Ohm coaxial | 3 meters     | DIN Male               | AM/FM             |
| P/N: 7581185 | FAKRA Female White     | 75 Ohm coaxial | 5 meters     | DIN Male               | AM/FM             |
| P/N: 7581187 | FAKRA Female White     | 75 Ohm coaxial | 7 meters     | DIN Male               | AM/FM             |
| P/N: 7581193 | FAKRA Female Waterblue | 75 Ohm coaxial | 3 meters     | FAKRA Female Waterblue | AM/FM - DAB - DTT |
| P/N: 7581195 | FAKRA Female Waterblue | 75 Ohm coaxial | 5 meters     | FAKRA Female Waterblue | AM/FM - DAB - DTT |
| P/N: 7581197 | FAKRA Female Waterblue | 75 Ohm coaxial | 7 meters     | FAKRA Female Waterblue | AM/FM - DAB - DTT |

**Note**

## FAKRA/SMB EXTENSION CABLES

FOR CALEARO ANTENNAS

|              | ANTENNA SIDE | CABLE TYPE | CABLE LENGHT | DEVICE SIDE |
|--------------|--------------|------------|--------------|-------------|
| P/N: 7581010 | FAKRA Female | RG174      | 1 meter      | SMB Female  |
| P/N: 7581011 | FAKRA Female | RG174      | 3 meters     | SMB Female  |
| P/N: 7581012 | FAKRA Female | RG174      | 5 meters     | SMB Female  |
| P/N: 7581013 | FAKRA Female | RG174      | 7 meters     | SMB Female  |
| P/N: 7581014 | FAKRA Female | RG174      | 9 meters     | SMB Female  |
| P/N: 7581015 | FAKRA Female | RG174      | 12 meters    | SMB Female  |

**Note** Housing Black, Blue and Waterblue for FAKRA Female Connector included in the package

## FAKRA WATERPROOF/SMB EXTENSION CABLES

FOR CALEARO ANTENNAS

|              | ANTENNA SIDE           | CABLE TYPE | CABLE LENGHT | DEVICE SIDE |
|--------------|------------------------|------------|--------------|-------------|
| P/N: 7581147 | FAKRA Female Waterblue | RG174      | 3,5 meters   | SMB Female  |
| P/N: 7581148 | FAKRA Female Waterblue | RG174      | 5 meters     | SMB Female  |

**Note** WATERPROOF FAKRA Connector

## FAKRA/FME EXTENSION CABLE

FOR CALEARO ANTENNAS

|              | ANTENNA SIDE | CABLE TYPE | CABLE LENGHT | DEVICE SIDE |
|--------------|--------------|------------|--------------|-------------|
| P/N: 7581116 | FAKRA Female | RG58       | 5 meters     | FME Female  |

**Note** Black, White, Bordeaux and Green housing for FAKRA Female connector included in the package

**FAKRA/SMA EXTENSION CABLES FOR WIFI***FOR CALEARO ANTENNAS*

|              | ANTENNA SIDE                                      | CABLE TYPE     | CABLE LENGHT | DEVICE SIDE |
|--------------|---------------------------------------------------|----------------|--------------|-------------|
| P/N: 7581170 | FAKRA Female Violet                               | RG 58 LOW LOSS | 3 meters     | SMA Male    |
| P/N: 7581171 | FAKRA Female Violet                               | RG 58 LOW LOSS | 5 meters     | SMA Male    |
| P/N: 7581172 | FAKRA Female Violet                               | RG 58 LOW LOSS | 7 meters     | SMA Male    |
| Note         | RG58 LOW LOSS special cables for high frequencies |                |              |             |

**DIN EXTENSION CABLES FOR AM/FM**

|              | CABLE SIDE | CABLE TYPE | CABLE LENGHT | DEVICE SIDE |
|--------------|------------|------------|--------------|-------------|
| P/N: 7581020 | DIN Female | AR7        | 0,5 meter    | DIN Male    |
| P/N: 7581023 | DIN Female | AR7        | 1 meter      | DIN Male    |
| P/N: 7581029 | DIN Female | AR7        | 3 meters     | DIN Male    |
| P/N: 7581034 | DIN Female | AR7        | 4,5 meters   | DIN Male    |
| Note         |            |            |              |             |

**SMB EXTENSION CABLES**

|              | CABLE SIDE | CABLE TYPE | CABLE LENGHT | DEVICE SIDE |
|--------------|------------|------------|--------------|-------------|
| P/N: 7581094 | SMB Female | RG174      | 1 meter      | SMB Male    |
| P/N: 7581095 | SMB Female | RG174      | 3 meters     | SMB Male    |
| P/N: 7581096 | SMB Female | RG174      | 5 meters     | SMB Male    |
| Note         |            |            |              |             |

**FME EXTENSION CABLES**

|              | ANTENNA/CABLE SIDE | CABLE TYPE | CABLE LENGHT | DEVICE SIDE |
|--------------|--------------------|------------|--------------|-------------|
| P/N: 7581046 | FME Female         | RG58       | 1,5 meters   | FME Female  |
| P/N: 7581045 | FME Female         | RG58       | 5 meters     | FME Female  |
| P/N: 8510031 | FME Male           | LOW LOSS   | 5 meters     | FME Female  |
| Note         |                    |            |              |             |

**LOW LOSS EXTENSION CABLES WITH N AND SMA CONNECTORS**

|              | ANTENNA/CABLE SIDE | CABLE TYPE | CABLE LENGHT | DEVICE SIDE |
|--------------|--------------------|------------|--------------|-------------|
| P/N: 8510015 | N Male             | LOW LOSS   | 2 meters     | SMA Male    |
| P/N: 8510009 | N Male             | LOW LOSS   | 5 meters     | SMA Male    |
| Note         |                    |            |              |             |

**LOW LOSS EXTENSION CABLES WITH SMA CONNECTORS**

|              | ANTENNA/CABLE SIDE | CABLE TYPE | CABLE LENGHT | DEVICE SIDE                 |
|--------------|--------------------|------------|--------------|-----------------------------|
| P/N: 7131047 | SMA Female         | LOW LOSS   | 5 meters     | SMA Male - REVERSE POLARITY |
| P/N: 8510004 | SMA Female         | LOW LOSS   | 2 meters     | SMA Male                    |
| P/N: 8510050 | SMA Female         | LOW LOSS   | 4 meters     | SMA Male                    |
| P/N: 8510029 | SMA Female         | LOW LOSS   | 5 meters     | SMA Male                    |
| P/N: 8510051 | SMA Female         | LOW LOSS   | 8 meters     | SMA Male                    |
| P/N: 8510064 | SMA Female         | LOW LOSS   | 10 meters    | SMA Male                    |
| P/N: 8510012 | SMA Female         | LOW LOSS   | 25 meters    | SMA Male                    |
| Note         |                    |            |              |                             |

| FAKRA                                                                                                                                                                                                    | COLOUR    | CODE KEY | TYPICAL APPLICATION  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|----------|----------------------|
| <br>FAKRA Male<br><br><br>FAKRA Female | Black     | A        | AM/FM - DAB          |
|                                                                                                                                                                                                          | White     | B        | AM/FM                |
|                                                                                                                                                                                                          | Blue      | C        | GPS - GNSS           |
|                                                                                                                                                                                                          | Bordeaux  | D        | GSM/UMTS/LTE         |
|                                                                                                                                                                                                          | Green     | E        | TV - UHF - VHF       |
|                                                                                                                                                                                                          | Brown     | F        | DAB (NISSAN/RENAULT) |
|                                                                                                                                                                                                          | Grey      | G        | DAB (FCA)            |
|                                                                                                                                                                                                          | Violet    | H        | WIFI                 |
|                                                                                                                                                                                                          | Waterblue | Z        | UNIVERSAL            |

|                                                                                                                 |                                                                                                                             |                                                                                                                           |                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>BP</b><br><br>BPN Male      | <b>GT</b><br><br>GT13 Female (GT13-SH)     | <b>ISO</b><br><br>ISO Female            | <b>SMA</b><br><br>SMA Female        |
| <br>BPN Female                 | <br>GT13 Female (GT13-SS)                  | <br>ISO Male                            | <br>SMA Male                        |
| <b>DIN</b><br><br>DIN Female | <br>GT16 Female                           | <b>JACK</b><br><br>JACK Female 3,5 mm | <br>SMA Male RP (Reverse Polarity) |
| <br>DIN Male                 | <br>GT5 Female                           | <b>MCX</b><br><br>MCX Male            | <b>SMB</b><br><br>SMB Female      |
| <b>F</b><br><br>F Male       | <b>HC</b><br><br>HC97 Male (RAKU 2 Male) | <b>MMCX</b><br><br>MMCX Male 90°      | <br>SMB Female 90°                |
| <b>FME</b><br><br>FME Female | <br>HC97 Female (RAKU2 Female)           | <b>N</b><br><br>N Male                | <br>SMB Male                      |
| <br>FME Male                 | <br>HC Male                              | <br>N Female                          |                                                                                                                        |
| <b>OPEL</b><br><br>OPEL      | <b>IEC</b><br><br>IEC 9,5                | <b>ROKA</b><br><br>ROKA Male          |                                                                                                                        |



## **ACCESSORIES & SPARE PARTS**

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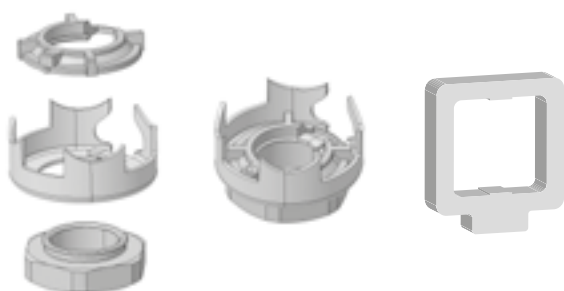
|                                        |    |
|----------------------------------------|----|
| HOLE ADAPTERS.....                     | 78 |
| HOUSING FAKRA .....                    | 78 |
| ROD FOR SINGLE FUNCTION ANTENNAS ..... | 79 |
| ROD FOR MULTIFUNCTIONAL ANTENNAS ...   | 80 |
| ROD FOR CRITICAL ANTENNAS .....        | 81 |
| ROD FOR GSM ANTENNAS .....             | 81 |

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## HOLE ADAPTER

P/N: 7131050

FCA 2012 >



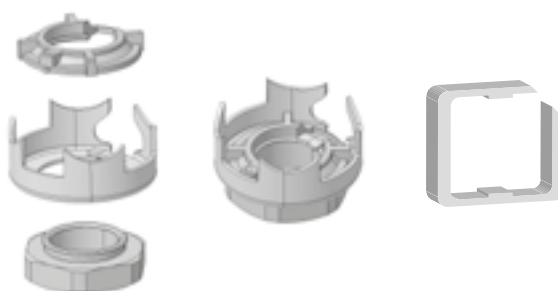
**Note** Only for SHARK 2 antennas

## HOLE ADAPTER

FOR SHARK 2 ONLY

P/N: 7131051

FORD 2011 >



**Note** Only for SHARK 2 antennas

## HOLE ADAPTER

FOR SHARK 2 ONLY

P/N: 7131052

OPEL 2009 >



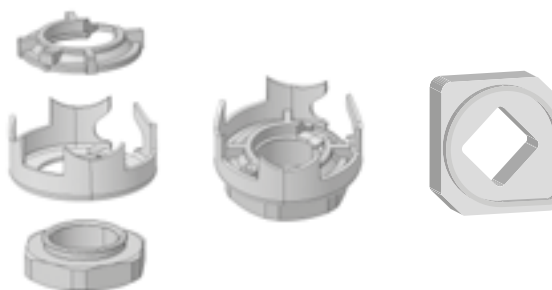
**Note** Only for SHARK 2 antennas

## HOLE ADAPTER

FOR SHARK 2 ONLY

P/N: 7131053

VOLKSWAGEN MIB PLATFORM 2012 >



**Note** Only for SHARK 2 antennas

## HOLE COVER CAP

P/N: 7130005

UNIVERSAL



**Note** Hole cover cap diameter: 3 cm

### Housing Fakra

## FAKRA HOUSING KIT NEW

P/N: 7131055

WATERBLUE HOUSING FOR FAKRA MALE CONNECTOR



**Note** Kit contains 5 housing  
Allow to replace any FAKRA Male housing with the universal type

## FAKRA HOUSING KIT NEW

P/N: 7131056

WATERBLUE HOUSING FOR FAKRA MALE CONNECTOR



**Note** Kit contains 5 housing  
Allow to replace any FAKRA Female housing with the universal type

**16V TYPE**

| P/N: 7551019 | AM/FM  |        |    |
|--------------|--------|--------|----|
| Type         | 16V    | Thread | M5 |
| Lenght       | 410 mm |        |    |

**16V TYPE**

| P/N: 7551037 | AM/FM  |        |    |
|--------------|--------|--------|----|
| Type         | 16V    | Thread | M5 |
| Lenght       | 410 mm |        |    |



Note Antinoise Coil

**16V TYPE**

| P/N: 7551039 | AM/FM  |        |    |
|--------------|--------|--------|----|
| Type         | 16V    | Thread | M5 |
| Lenght       | 300 mm |        |    |



Note Antinoise Coil

**16V TYPE**

| P/N: 7551033 | DAB    |        |    |
|--------------|--------|--------|----|
| Type         | 16V    | Thread | M6 |
| Lenght       | 410 mm |        |    |



Note Antinoise Coil

**FIBERGLASS**

| P/N: 7552012 | AM/FM      |        |    |
|--------------|------------|--------|----|
| Type         | FIBERGLASS | Thread | M6 |
| Lenght       | 400 mm     |        |    |

**FIBERGLASS**

| P/N: 7552017 | AM/FM      |        |    |
|--------------|------------|--------|----|
| Type         | FIBERGLASS | Thread | M6 |
| Lenght       | 840 mm     |        |    |

**RUBBER**

| P/N: 7550028 | AM/FM  |        |    |
|--------------|--------|--------|----|
| Type         | RUBBER | Thread | M6 |
| Lenght       | 360 mm |        |    |



**16V TYPE**

| P/N: 7551027 | AM/FM - GSM |        |    |
|--------------|-------------|--------|----|
| Type         | 16V         | Thread | M6 |
| Lenght       | 410 mm      |        |    |



**Note** Antinoise Coil

**16V TYPE**

| P/N: 7551038 | AM/FM - DTT |        |    |
|--------------|-------------|--------|----|
| Type         | 16V         | Thread | M6 |
| Lenght       | 410 mm      |        |    |



**Note** Antinoise Coil

**16V TYPE**

| P/N: 7552090 | AM/FM - DAB |        |    |
|--------------|-------------|--------|----|
| Type         | 16V Short   | Thread | M5 |
| Lenght       | 200 mm      |        |    |



**Note** Smooth

**16V TYPE**

| P/N: 7551040 | AM/FM - DAB |        |    |
|--------------|-------------|--------|----|
| Type         | 16V         | Thread | M6 |
| Lenght       | 410 mm      |        |    |



**Note** Antinoise Coil

**FLEXI**

| P/N: 7551046 | AM/FM - DAB |        |    |
|--------------|-------------|--------|----|
| Type         | Flexi       | Thread | M6 |
| Lenght       | 220 mm      |        |    |



**Note** Heavy duty and high flexible

**FIBERGLASS**

| P/N: 7551045 | AM/FM - DAB |        |           |
|--------------|-------------|--------|-----------|
| Type         | Fiberglass  | Thread | M6 Female |
| Lenght       | 400 mm      |        |           |



**Note** Package include two adapters to change the M6 Female thread to M5 male or to M6 male

**16V TYPE**

|              |            |        |    |
|--------------|------------|--------|----|
| P/N: 7551041 | <b>UHF</b> |        |    |
| Type         | 16V        | Thread | M6 |
| Lenght       | 260 mm     |        |    |

**16V TYPE**

|              |            |        |    |
|--------------|------------|--------|----|
| P/N: 7551042 | <b>VHF</b> |        |    |
| Type         | 16V        | Thread | M6 |
| Lenght       | 380 mm     |        |    |



Note Tunable

**Rod for GSM Antennas****FIXED**

|              |                 |        |    |
|--------------|-----------------|--------|----|
| P/N: 7551028 | <b>GSM</b>      |        |    |
| Type         | OMNIDIRECTIONAL | Thread | M6 |
| Lenght       | 50 mm           |        |    |

**FIXED**

|              |                 |        |    |
|--------------|-----------------|--------|----|
| P/N: 7551029 | <b>GSM</b>      |        |    |
| Type         | OMNIDIRECTIONAL | Thread | M5 |
| Lenght       | 60 mm           |        |    |





## AUDIO & VIDEO

|                                                       |    |
|-------------------------------------------------------|----|
| RADIO .....                                           | 84 |
| SPEAKER .....                                         | 86 |
| MONITOR .....                                         | 87 |
| REAR VIEW CAMERA .....                                | 88 |
| EXTENSION CABLE & ADAPTERS<br>FOR VIDEO SYSTEMS ..... | 90 |
| MOUNTING ACCESSORIES .....                            | 91 |
| LEGEND OF ICONS .....                                 | 93 |

*Calearo's line of car radio, speakers and adapters is able to create the perfect kit for any kind of vehicle, from private city cars to vehicles designed to withstand the harsh environment. This product range includes dust and spray proof radios paired with technologies such as DAB-DAB+ reception and Bluetooth.*



## ES 6180 <sup>BT</sup>

1 DIN CAR RADIO

P/N: 7137567

EEPROM • BLUETOOTH • MECHLESS

|              |                                           |                   |                           |
|--------------|-------------------------------------------|-------------------|---------------------------|
| Tuner        | AM/FM RDS World Tuner                     | Front Panel       | Detachable                |
| Audio Source | USB - SD CARD - A2DP - AUX IN             | Audio power       | 4 x 40 Watt max           |
| Bluetooth    | Hands Free (HFP) - Audio Streaming (A2DP) | Power supply      | 12 Volt                   |
| Media        | MP3 - WMA                                 | Main connector    | ISO built in              |
| Display      | LCD with WHITE segments                   | Antenna Connector | DIN Female built in       |
| Key & Knob   | RED color light                           | Dimension         | 1 DIN standard Short body |

Note



## ES 6180 <sup>DAB</sup>

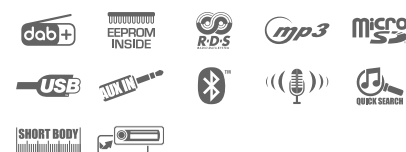
1 DIN CAR RADIO

P/N: 7137574

EEPROM • DAB TUNER • BLUETOOTH • MECHLESS

|              |                                                 |                   |                                   |
|--------------|-------------------------------------------------|-------------------|-----------------------------------|
| Tuner        | AM/FM RDS World Tuner - DAB Tuner               | Front Panel       | Detachable                        |
| Audio Source | USB - MICRO SD - A2DP - AUX IN                  | Audio power       | 4 x 40 Watt max                   |
| Bluetooth    | Hands Free (HFP) - Audio Streaming (A2DP/AVRCP) | Power supply      | 12 Volt                           |
| Media        | MP3 - WMA - FLAC                                | Main connector    | ISO built in                      |
| Display      | DOT Matrix WHITE                                | Antenna Connector | AM/FM: DIN Female - DAB: SMB Male |
| Key & Knob   | RED color light                                 | Dimension         | 1 DIN standard Short body         |

Note



**DP 6290<sup>DAB</sup>****1 DIN CAR RADIO**

P/N: 7137577

**IP54 PROTECTION GRADE • EEPROM • DAB TUNER • BLUETOOTH • MECHLESS**

|              |                                                 |                   |                                   |
|--------------|-------------------------------------------------|-------------------|-----------------------------------|
| Tuner        | AM/FM RDS World Tuner - DAB Tuner               | Front Panel       | Fixed panel                       |
| Audio Source | USB - AUX IN                                    | Audio power       | 4 x 40 Watt max                   |
| Bluetooth    | Hands Free (HFP) - Audio Streaming (A2DP/AVRCP) | Power supply      | 12 Volt                           |
| Media        | MP3 - WMA                                       | Main connector    | ISO built in                      |
| Display      | LCD with WHITE illumination and BLACK segments  | Antenna Connector | AM/FM: DIN Female - DAB: SMB Male |
| Key & Knob   | RED color light                                 | Dimension         | 1 DIN standard Short body         |

**Note** Dust & Spray resistant with IP54 protection grade for heavy duty installation

**DP 6400<sup>DAB</sup>****NEW****1 DIN CAR RADIO**

P/N: 7137594

**IP54 PROTECTION GRADE • 12V AND 24V POWER SUPPLY • EEPROM • DAB TUNER • BLUETOOTH • MECHLESS**

|              |                                                 |                   |                                   |
|--------------|-------------------------------------------------|-------------------|-----------------------------------|
| Tuner        | AM/FM RDS World Tuner - DAB Tuner               | Front Panel       | Fixed panel                       |
| Audio Source | USB - AUX IN                                    | Audio power       | 4 x 40 Watt max                   |
| Bluetooth    | Hands Free (HFP) - Audio Streaming (A2DP/AVRCP) | Power supply      | 12/24 Volt                        |
| Media        | MP3 - WMA                                       | Main connector    | ISO built in                      |
| Display      | LCD with WHITE illumination and BLACK segments  | Antenna Connector | AM/FM: DIN Female - DAB: SMB Male |
| Key & Knob   | RED color light                                 | Dimension         | 1 DIN standard Short body         |

**Note** Dust & Spray resistant with IP54 protection grade for heavy duty installation



## EL 87

| P/N: 7697320 | 2 WAY COAXIAL                   |                 |                |
|--------------|---------------------------------|-----------------|----------------|
| Dimension    | 87 mm                           | Frequency Resp. | 100 ÷ 20000 Hz |
| Deep         | 42 mm max                       | Impedance       | 4 Ohm          |
| Power        | Nominal: 35 watt - Max: 50 watt | Cone            | Paper          |
| Efficiency   | 87 dB                           | Basket          | Steel          |



## EL 100

| P/N: 7697321 | 2 WAY COAXIAL                   |                 |               |
|--------------|---------------------------------|-----------------|---------------|
| Dimension    | 100 mm                          | Frequency Resp. | 90 ÷ 16000 Hz |
| Deep         | 50 mm max                       | Impedance       | 4 Ohm         |
| Power        | Nominal: 35 watt - Max: 75 watt | Cone            | Paper         |
| Efficiency   | 88 dB                           | Basket          | Steel         |



## EL 130

| P/N: 7697322 | 2 WAY COAXIAL                   |                 |               |
|--------------|---------------------------------|-----------------|---------------|
| Dimension    | 130 mm                          | Frequency Resp. | 80 ÷ 16000 Hz |
| Deep         | 46 mm max                       | Impedance       | 4 Ohm         |
| Power        | Nominal: 40 watt - Max: 80 watt | Cone            | Paper         |
| Efficiency   | 90 dB                           | Basket          | Steel         |



## EL 165

| P/N: 7697323 | 2 WAY COAXIAL                    |                 |               |
|--------------|----------------------------------|-----------------|---------------|
| Dimension    | 165 mm                           | Frequency Resp. | 70 ÷ 16000 Hz |
| Deep         | 57 mm max                        | Impedance       | 4 Ohm         |
| Power        | Nominal: 50 watt - Max: 100 watt | Cone            | Paper         |
| Efficiency   | 92 dB                            | Basket          | Steel         |



## EL 4X6

| P/N: 7697330   | 2 WAY COAXIAL                   |                 |               |
|----------------|---------------------------------|-----------------|---------------|
| Dimension      | 90 x 150 mm                     | Frequency Resp. | 60 ÷ 20000 Hz |
| Power          | 45 mm max                       | Cone            | 4 Ohm         |
| Impedance      | Nominal: 25 watt - Max: 50 watt | Surround        | Paper         |
| Freq. response | 91 dB                           | Basket          | Steel         |



## DC 100

| P/N: 7697331 | DUAL CONE                       |                 |               |
|--------------|---------------------------------|-----------------|---------------|
| Dimension    | 100 mm                          | Frequency Resp. | 80 ÷ 20000 Hz |
| Deep         | 50 mm max                       | Impedance       | 4 Ohm         |
| Power        | Nominal: 15 watt - Max: 30 watt | Cone            | Paper         |
| Efficiency   | 90 dB                           | Basket          | Steel         |



## ML 100

| P/N: 7697332   | 2 WAY COAXIAL - NEODIMIUM TWEETER |                 |               |
|----------------|-----------------------------------|-----------------|---------------|
| Dimension      | 100 mm                            | Frequency Resp. | 90 ÷ 20000 Hz |
| Power          | 42 mm max                         | Impedance       | 4 Ohm         |
| Impedance      | Nominal: 40 watt - Max: 80 watt   | Cone            | Polycarbonate |
| Freq. response | 91 dB                             | Basket          | Steel         |



## MON-7012

P/N: 7137730

### LCD-TFT DISPLAY

|                         |                                 |
|-------------------------|---------------------------------|
| Display Size            | 7 inches                        |
| Video System            | PAL/NTSC automatically selected |
| Screen Ratio            | 16:9                            |
| Resolution              | 800 x 480 pixel                 |
| Image display           | Single                          |
| Contrast                | 500:1                           |
| Rear Video Input        | 3                               |
| Front Audio/Video Input | 1                               |
| Setting Menu            | OSM Multilingual                |
| Power Supply            | 12/24 Volt                      |
| Camera Connector type   | 4 PIN                           |
| Dimension (WxHxD)       | 180x121x23 mm                   |



#### Note

## MON-7012 Q

P/N: 7137731

### LCD-TFT DISPLAY • MULTIVISION SYSTEM

|                         |                                 |
|-------------------------|---------------------------------|
| Display Size            | 7 inches                        |
| Video System            | PAL/NTSC automatically selected |
| Screen Ratio            | 16:9                            |
| Resolution              | 800 x 480 pixel                 |
| Image display           | Single and Multivision support  |
| Contrast                | 500:1                           |
| Rear Video Input        | 4                               |
| Front Audio/Video Input | 1                               |
| Setting Menu            | OSM Multilingual                |
| Power Supply            | 12/24 Volt                      |
| Camera Connector type   | 4 PIN                           |
| Dimension (WxHxD)       | 180x121x23 mm                   |



#### Note

Multivision system support up to 4 camera at the same time

## MON-7010Q AHD NEW

P/N: 7137780

### ANALOGUE HIGH DEFINITION • DISPLAY LCD-TFT • MULTIVISION SYSTEM • DIGITAL VIDEO RECORDING (DVR)

|                         |                                 |
|-------------------------|---------------------------------|
| Display Size            | 7 inches                        |
| Video System            | PAL/NTSC automatically selected |
| Screen Ratio            | 16:9                            |
| Resolution              | 1024 x 600 pixel                |
| Image display           | Single and Multivision support  |
| Contrast                | 800:1                           |
| Rear Video Input        | 4                               |
| Front Audio/Video Input | 1                               |
| Setting Menu            | OSM Multilingual                |
| Power Supply            | 12/24 Volt                      |
| Camera Connector type   | 4 PIN                           |
| Dimension (WxHxD)       | 180x121x24 mm                   |



#### Note

Multivision system and Digital Video Recording (DVR) works with up to 4 camera at the same time

**CAM-103****BASIC COLOR CAMERA**

## AVAILABLE VERSIONS

|              | BLACK | WHITE |
|--------------|-------|-------|
| P/N: 7137735 | •     |       |
| P/N: 7137748 |       | •     |

## TECHNICAL SPECIFICATION

| ALUMINIUM ALLOY • IP68 PROTECTION GRADE |                        |                   |                               |
|-----------------------------------------|------------------------|-------------------|-------------------------------|
| Sensor type                             | 1/3 CCD Color          | Connector         | 4 PIN                         |
| Video System                            | PAL                    | Power Supply      | 12V supplied from the monitor |
| Resolution                              | 600 TV lines           | Shockproof        | 4G                            |
| Minimum illumination                    | 0,5 lux                | Weight            | 400 g                         |
| Nigh Vision                             | 18 infrared led lights | Dimension (WxHxD) | 77 x 54 x 77 mm               |
| Viewing angle                           | 120 degree             | Mounting          | U bracket                     |

Note

**CAM-127 AHD** **NEW****AHD CAMERA**

| P/N: 7137767         | ANALOGUE HIGH DEFINITION CAMERA (AHD) • CDS SYSTEM • ALUMINIUM ALLOY • IP69K PROTECTION GRADE |                   |                               |
|----------------------|-----------------------------------------------------------------------------------------------|-------------------|-------------------------------|
| Sensor type          | 1/3 CMOS                                                                                      | Connector         | 4 PIN                         |
| Video System         | PAL                                                                                           | Power Supply      | 12V supplied from the monitor |
| Resolution           | 1280 x 720 max                                                                                | Shockproof        | 4G                            |
| Minimum illumination | 0,1 lux                                                                                       | Weight            | 300 g                         |
| Nigh Vision          | CDS System                                                                                    | Dimension (WxHxD) | 86 X 77 X 75 mm               |
| Viewing angle        | 140 degree                                                                                    | Mounting          | U bracket                     |

Note

CDS System assure a higher quality night vision - Compatible with Calearo MON-7010 Q AHD



**CAM-970****INDUSTRIAL VEHICLE COLOR CAMERA****P/N: 7137738****ALUMINIUM ALLOY CAMERA IN A HIGH RESISTANT PLASTIC BOX • IP68 PROTECTION GRADE**

|                      |                        |                   |                               |
|----------------------|------------------------|-------------------|-------------------------------|
| Sensor type          | 1/4 CCD Color          | Connector         | 4 PIN                         |
| Video System         | PAL                    | Power Supply      | 12V supplied from the monitor |
| Resolution           | 600 TV lines           | Shockproof        | 4G                            |
| Minimum illumination | 0,5 lux                | Weight            | 250 g                         |
| Nigh Vision          | 10 infrared led lights | Dimension (WxHxD) | 129 X 59 X 205 mm             |
| Viewing angle        | 120 degree             | Mounting          | Screw                         |

**Note** Special design for bus, coach, motorhome and industrial vehicles suitable for eliminate blind spot

**CAM-102****COLOR PIN CAMERA****P/N: 7137747****BUILT-IN MOUNTING • ALUMINIUM ALLOY • IP67 PROTECTION GRADE**

|                      |                        |                   |                               |
|----------------------|------------------------|-------------------|-------------------------------|
| Sensor type          | CMOS                   | Connector         | 4 PIN                         |
| Video System         | PAL                    | Power Supply      | 12V supplied from the monitor |
| Resolution           | 480 TV lines           | Shockproof        | 4G                            |
| Minimum illumination | 0,05 lux               | Weight            | 120 g                         |
| Nigh Vision          | 10 infrared led lights | Max mounting deep | 62 mm                         |
| Viewing angle        | 120 degree             | Hole diameter     | 26 mm                         |

**Note** Suitable for built-in installation



**TRAILER** EXTENSION CABLE

## AVAILABLE VERSIONS

|              | 1 CAMERA ON TRAILER | 2 CAMERAS ON TRAILER |
|--------------|---------------------|----------------------|
| P/N: 7137754 | •                   |                      |
| P/N: 7137755 |                     | •                    |

## TECHNICAL SPECIFICATION

|               |                                            |
|---------------|--------------------------------------------|
| Compatibility | Calearo Camera systems                     |
| Cable Type    | Spiral cable - High resistant and flexible |
| Connections   | Heavy duty with secur lock                 |

## Note

P/N **7137754**P/N **7137755****4 PIN** EXTENSION CABLE

## AVAILABLE VERSIONS

|              | 5 METERS | 10 METERS | 20 METERS |
|--------------|----------|-----------|-----------|
| P/N: 7137734 | •        |           |           |
| P/N: 7137739 |          | •         |           |
| P/N: 7137740 |          |           | •         |

## TECHNICAL SPECIFICATION

|               |                                  |
|---------------|----------------------------------|
| Compatibility | Calearo standard and AHD cameras |
| Cable Type    | High resistant multicore cable   |
| Connections   | 4 PIN with secur lock            |

## Note

Dedicated cables for video signals and power supply to connect the Calearo cameras to the Calearo monitors

**ADAPTER**

## AVAILABLE VERSIONS

|              | CHANGE THE MONITOR CONNECTOR FROM 4 PIN TO RCA | CHANGE THE CAMERA CONNECTOR FROM 4 PIN TO RCA |
|--------------|------------------------------------------------|-----------------------------------------------|
| P/N: 7137742 | •                                              |                                               |
| P/N: 7137743 |                                                | •                                             |

## TECHNICAL SPECIFICATION

|               |                                  |
|---------------|----------------------------------|
| Compatibility | Calearo standard and AHD monitor |
| Cable Length  | 300 mm                           |
| Connections   | 4 PIN with secur lock RCA        |

## Note

## SPEAKER GRILL

## ACCESSORIES

|              | DESCRIPTIONS                    | TYPE   | MATERIALS                    |
|--------------|---------------------------------|--------|------------------------------|
| P/N: 7122003 | Square grill with visible screw | 100 mm | Plastic frame and metal grid |
| P/N: 7122020 | Square grill with visible screw | 130 mm | Plastic frame and metal grid |
| P/N: 7122021 | Square grill with visible screw | 165 mm | Plastic frame and metal grid |



|              | DESCRIPTIONS                   | TYPE   | MATERIALS                    |
|--------------|--------------------------------|--------|------------------------------|
| P/N: 7122012 | Round grill with hidden screw  | 100 mm | Plastic frame and metal grid |
| P/N: 7122018 | Round grill with visible screw | 100 mm | Plastic frame and metal grid |
| P/N: 7122022 | Round grill with visible screw | 130 mm | Plastic frame and metal grid |
| P/N: 7122019 | Round grill with visible screw | 165 mm | Plastic frame and metal grid |



|              | DESCRIPTIONS                        | TYPE        | MATERIALS                    |
|--------------|-------------------------------------|-------------|------------------------------|
| P/N: 7122023 | Rectangular grid with visible screw | 150 x 90 mm | Plastic frame and metal grid |



## BOX

## ACCESSORIES

|              | DESCRIPTIONS    | TYPE   | MATERIALS                    |
|--------------|-----------------|--------|------------------------------|
| P/N: 7122026 | Box for speaker | 100 mm | Plastic frame and metal grid |

**Note** Allow to mount the 100 mm speakers type on the dashboard, on the roof or in any other position inside the vehicle



**FRAME****ACCESSORIES**

|              | DESCRIPTIONS                                        | MATERIALS | DIMENSION                                            |
|--------------|-----------------------------------------------------|-----------|------------------------------------------------------|
| P/N: 7122025 | Black frame for 1 DIN radio with rounded profile    | Metal     | Internal: 1 DIN standard / External: 195 x 68 mm max |
| Note         | Allow to adapt the radio slot to the 1 DIN standard |           |                                                      |

**COVER****ACCESSORIES**

|              | DESCRIPTIONS                         | MATERIALS | DIMENSION                                        |
|--------------|--------------------------------------|-----------|--------------------------------------------------|
| P/N: 7122017 | 1 DIN COVER                          | Plastic   | 189 x 66 mm                                      |
| P/N: 7122138 | 2 DIN COVER                          | Plastic   | 189 x 110 mm                                     |
| Note         | Allow to cover the radio preparation | Note      | Allow to cover the radio preparation compartment |



### ICONS DESCRIPTION



DAB Tuner for DigitalRadio



Backup memory for settings and stored channels



IP 54 class protection



Dust and water spray protection for tough working conditions



Radio Data System (RDS) displays several types of information (time, station identification and programme information)



MP3 player



SD card input



Micro SD card input



USB input



Auxiliary input for audio jack



Preamplified signal output



Subwoofer output



Bluetooth™ for handsfree and audio streaming (A2DP)



External microphone for handsfree communications



Quick search for MP3 file



Detachable panel



Short body

## Index per part number

| PART NUMBER       | SEE PAGE | PART NUMBER       | SEE PAGE | PART NUMBER       | SEE PAGE | PART NUMBER       | SEE PAGE |
|-------------------|----------|-------------------|----------|-------------------|----------|-------------------|----------|
| 7122003           | 91       | 7137734           | 90       | 7581011           | 73       | 7581183           | 73       |
| 7122012           | 91       | 7137735           | 88       | 7581012           | 73       | 7581185           | 73       |
| 7122017           | 92       | 7137738           | 89       | 7581013           | 73       | 7581187           | 73       |
| 7122018           | 91       | 7137739           | 90       | 7581014           | 73       | 7581193           | 73       |
| 7122019           | 91       | 7137740           | 90       | 7581015           | 73       | 7581195           | 73       |
| 7122020           | 91       | 7137742           | 90       | 7581020           | 74       | 7581197           | 73       |
| 7122021           | 91       | 7137743           | 90       | 7581023           | 74       | 7590007           | 62       |
| 7122022           | 91       | 7137747           | 88       | 7581029           | 74       | 7590008           | 63       |
| 7122023           | 91       | 7137748           | 88       | 7581034           | 74       | 7590009           | 62       |
| 7122025           | 92       | 7137754           | 90       | 7581045           | 74       | 7590013           | 63       |
| 7122026           | 91       | 7137755           | 90       | 7581046           | 74       | 7627008           | 28       |
| 7122138           | 92       | 7137767           | 89       | 7581059           | 71       | 7640006           | 45       |
| 7127220           | 72       | 7137780           | 87       | 7581071           | 72       | 7651006           | 25       |
| 7130003           | 70       | 7181113           | 71       | 7581072           | 72       | 7657008           | 25       |
| 7130005           | 78       | 7420002           | 70       | 7581077           | 71       | 7657009           | 24       |
| 7131003           | 72       | 7420003           | 70       | 7581094           | 74       | 7657015           | 24       |
| 7131004           | 72       | 7542030           | 70       | 7581095           | 74       | 7657016           | 25       |
| 7131006           | 72       | 7550028           | 79       | 7581096           | 74       | 7657019           | 24       |
| 7131009           | 72       | 7551019           | 79       | 7581101           | 70       | 7657020           | 25       |
| 7131011           | 72       | 7551027           | 80       | 7581105           | 72       | 7657021           | 24       |
| 7131041           | 72       | 7551028           | 81       | 7581106           | 71       | 7667010           | 26       |
| 7131047           | 74       | 7551029           | 81       | 7581107           | 71       | 7667011           | 26       |
| 7131050           | 78       | 7551033           | 79       | 7581109           | 71       | 7667012           | 27       |
| 7131051           | 78       | 7551037           | 79       | 7581116           | 73       | 7667013           | 27       |
| 7131052           | 78       | 7551038           | 79       | 7581118           | 71       | 7677153           | 28       |
| 7131053           | 78       | 7551039           | 79       | 7581122           | 72       | 7677154           | 29       |
| 7131055           | 78       | 7551040           | 80       | 7581123           | 71       | 7677155           | 29       |
| 7131056           | 78       | 7551041           | 81       | 7581134           | 70       | 7677500           | 12       |
| 7132020           | 71       | 7551042           | 81       | 7581135           | 71       | 7677510           | 12       |
| 7132074           | 71       | 7551045           | 80       | 7581147           | 73       | 7677520           | 12       |
| 7132078           | 64 - 72  | 7551046           | 80       | 7581148           | 73       | 7677805           | 17       |
| 7132079           | 64 - 72  | 7552012           | 79       | 7581157           | 71       | 7677810           | 13       |
| 7132080           | 64 - 72  | 7552017           | 79       | 7581160           | 70       | 7677815           | 13       |
| 7132081           | 64 - 72  | 7552090           | 80       | 7581161           | 70       | 7677820           | 13       |
| 7132082           | 65 - 72  | 7561004           | 64       | 7581162           | 70       | 7677825           | 13       |
| 7132083           | 65 - 72  | 7561006           | 65       | 7581163           | 70       | 7677830           | 13       |
| 7132084           | 65 - 72  | 7561007           | 65       | 7581164           | 70       | 7677840           | 18       |
| 7132085           | 65 - 72  | 7561011           | 73       | 7581165           | 70       | 7677845           | 18       |
| 7132087           | 64       | 7561012           | 73       | 7581166           | 70       | 7677850           | 19       |
| 7137122           | 31       | 7561013           | 73       | 7581167           | 70       | 7677855           | 19       |
| 7137134           | 32       | 7561014           | 73       | 7581168           | 70       | 7677860           | 20       |
| 7137567           | 84       | 7561015           | 73       | 7581170           | 74       | 7677865           | 20       |
| 7137574           | 84       | 7561018           | 65       | 7581171           | 74       | 7677870           | 21       |
| 7137577           | 85       | 7562016           | 67       | 7581172           | 74       | 7677872           | 21       |
| 7137594           | 85       | 7562019           | 66       | 7581173           | 73       | 7677874           | 21       |
| 7137730           | 87       | 7562030           | 64       | 7581175           | 73       | 7677876           | 22       |
| 7137731           | 87       | 7581010           | 73       | 7581177           | 73       | 7677878           | 23       |
| 712 ... ~ 713 ... |          | 713 ... ~ 758 ... |          | 758 ... ~ 758 ... |          | 758 ... ~ 767 ... |          |

| PART NUMBER       | SEE PAGE | PART NUMBER       | SEE PAGE | PART NUMBER       | SEE PAGE | PART NUMBER       | SEE PAGE |
|-------------------|----------|-------------------|----------|-------------------|----------|-------------------|----------|
| 7677880           | 23       | 7697322           | 86       | 7771002           | 48       | 8510031           | 74       |
| 7677882           | 22       | 7697323           | 86       | 7771003           | 48       | 8510050           | 74       |
| 7677890           | 15       | 7697330           | 86       | 7771004           | 46       | 8510051           | 74       |
| 7677892           | 15       | 7697331           | 86       | 7771005           | 46       | 8510064           | 74       |
| 7677894           | 15       | 7697332           | 86       | 7771010           | 45       | 8610010           | 59       |
| 7677925           | 30       | 7727082           | 14       | 7771015           | 49       | 8610028           | 38       |
| 7677926           | 30       | 7727083           | 14       | 7771020           | 50       | 8610103           | 59       |
| 7677929           | 30       | 7727098           | 37       | 7771025           | 51       | 8610118           | 59       |
| 7677938           | 31       | 7727099           | 37       | 7771030           | 52       | 8610138           | 56       |
| 7677951           | 33       | 7731010           | 39       | 7771040           | 49       | 8610139           | 56       |
| 7677955           | 33       | 7750004           | 41       | 7771050           | 44       | 8610141           | 56       |
| 7677965           | 16       | 7750006           | 41       | 7771060           | 44       | 8610142           | 56       |
| 7681052           | 38       | 7757001           | 41       | 7771070           | 44       | 8610144           | 58       |
| 7681080           | 40       | 7757006           | 41       | 7771080           | 44       | 8610145           | 58       |
| 7681095           | 40       | 7770057           | 36       | 8510004           | 74       | 8610146           | 38       |
| 7697015           | 32       | 7770058           | 36       | 8510009           | 74       | 8610147           | 38       |
| 7697018           | 32       | 7770059           | 36       | 8510012           | 74       | 8610148           | 38       |
| 7697320           | 86       | 7771000           | 47       | 8510015           | 74       | 8610155           | 57       |
| 7697321           | 86       | 7771001           | 47       | 8510029           | 74       | 8610156           | 57       |
| 767 ... ~ 769 ... |          | 769 ... ~ 777 ... |          | 777 ... ~ 851 ... |          | 851 ... ~ 861 ... |          |

Calearo persegue costantemente una politica di continua ricerca e sviluppo.  
Pertanto si riserva il diritto di modificare le caratteristiche tecniche e/o estetiche  
dei suoi prodotti in qualsiasi momento e senza alcun preavviso.

Calearo has always pursued a policy of continuous research and development.  
Therefore the Company reserves the right to modify technical and/or aesthetical features  
of its products at any time and without prior notice.

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Daartoe behoudt het bedrijf het recht om te allen tijde en zonder voorafgaande kennisgeving  
technische en/of esthetische aanpassingen in haar producten te doen.

REV. 02/21





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