

*Antennas Catalogue  
Excellence in Communication  
2015/2016*



## Calearo Group: One World Total Reality



### **Calearo: evoluzione continua dal 1957.**

Calearo è il nome del Gruppo e della famiglia che lo ha creato ormai mezzo secolo fa, ma è anche sinonimo di dinamismo nella ricerca, senso pratico e grande esperienza nei processi di industrializzazione.

L'azienda, fondata nel 1957 da Alessio e Lucia Calearo e originariamente specializzata nella produzione di campanelli per biciclette, ha subito focalizzato il proprio core business nello sviluppo e produzione di antenne per auto.

Dagli anni '60 a oggi, dunque, Calearo è diventato fornitore delle più rinomate case automobilistiche europee proponendo una serie di prodotti innovativi e all'avanguardia: dalla prima antenna elettrica a quella per il radiotelefono veicolare, sino al recentissimo modello polifunzionale (radio, telefono, satellite e TV).

Nel 2005, con la nascita di Ce.R.Ca, il gruppo si è dotato di un centro di ricerca d'eccellenza, indipendente, attrezzato con tecnologie avanzatissime e programmi di ricerca concordati con i più rinomati Istituti internazionali. Una struttura in grado di operare nel campo delle radiofrequenze e delle trasmissioni fornendo un indispensabile contributo a tutte le Business Unit aziendali.

### **Calearo: constant evolution since 1957.**

Calearo is the name of a Group and of the family who created it half a century ago: a name for dynamic research combined with common sense and with the experience of the finest industrialisation.

Founded in 1957 by Alessio and Lucia Calearo for bicycle bell production, the Company started soon to specialize in automobile antennas: the first electric antenna was produced by Calearo as the innovative invention of an antenna for vehicle mobile telephones, up to the recent multi-functional model (radio, telephone, satellite and TV).

In 2005 was founded Ce.R.Ca., Calearo's research centre, a first-rate international structure in the field of radio frequencies and transmissions.

An independent team, equipped with state-of-the-art technologies for research programmes carried out in co-operation with many well-known international institutions.

Calearo Headquarter -Italy



Calearo Ce.R.Ca. - R&D Center



Calearo Slovakia











Satellite Communication

Marine Communication

Travel Assistance

Mobile

Adaptive Cruise Control

Trip Planning

Leisure

Passenger Information

Fleet Management

Traffic Signs

# Calearo's Antennas Worlds



## GSM, UMTS, GPS, WIFI Reception

Pag 9

Calearo amplia la propria offerta di prodotti, introducendo accanto alle antenne per il settore automotive, una gamma di soluzioni altamente professionali per base station e sistemi di telemetria nel settore industriale. Tecnologia WIFI di ultima generazione abbinata alle bande GSM, UMTS e GPS, sono le principali funzioni per le antenne dedicate alle telecomunicazioni wireless.

*Calearo extends its product offering, with antennas for the automotive sector now complemented by a range of highly professional solutions for base station and telemetry in the industrial sector. Next-generation WIFI technology combined with the GSM, UMTS and GPS bands are the main functions for antennas dedicated to wireless telecommunications.*



## TETRA, UHF, VHF Reception

Pag 23

Ampio spazio alle bande di frequenza speciali, dedicate al settore RADIOTAXI (VHF 146-174MHz e UHF 430-470MHz), alle telecomunicazioni professionali di pubblica sicurezza e di emergenza, e a quelle private (TETRA 380-410MHz). Prodotti singola funzione e multifunzione, garantiscono funzionalità e semplicità di installazione, integrandosi totalmente con il veicolo.

*Extensive focus on special frequency bands, used by radio taxi operators (VHF 146-174MHz and UHF 430-470MHz), professional telecommunications involving police and emergency services, and private telecommunications (TETRA 380-410MHz). Single and multifunction products guarantee functional efficiency and simple installation as well as full integration into the vehicle.*



## DVB-S and DVB-T Reception

Pag 29

Calearo offre una nuova linea di antenne dedicate al mercato nautico e a quello dei veicoli per il tempo libero, come camper, caravan e motorhomes. Progettate, sviluppate e prodotte totalmente in Italia, le antenne per la ricezione del DVB-T e del DVB-S garantiscono performance di primo livello. Completano la gamma l'ormai consolidata linea di antenne a vetro, Light e Dark TV, e a tetto, Bi-Tv, Tri-Tv e Shark Tv per tutto il mercato automotive.

*Calearo offers a new line of antennas for watercraft and recreational vehicles (campers, caravans and motor homes). Designed, developed and made entirely in Italy, antennas for DVB-T and DVB-S reception guarantee performance second to none. Completing the range are Calearo's well-known lines of antennas for the whole automotive market: Light and Dark TV, mounted on glass, and Bi-Tv, Tri-Tv and Shark Tv, roof-mounted.*



## DAB, DAB+ Reception

Pag 37

DAB/DAB+ e DMB sono i nuovi sistemi di trasmissione DIGITALE. Il primo permette la ricezione delle trasmissioni radiofoniche digitali di qualità superiore, mentre il secondo comprende pacchetti digitali audio-video. Le antenne per i sistemi DAB e DAB+ sono la soluzione ideale per un intrattenimento completo di alta qualità.

*DAB/DAB+ and DMB are the new DIGITAL transmission systems. DAB enables the reception of higher quality digital radio signals, and DAB+ includes digital audio-video packet streams. Calearo antennas for DAB and DAB+ systems are the ideal solution for a complete high quality entertainment experience.*



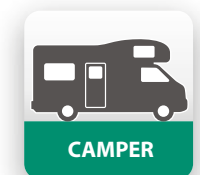
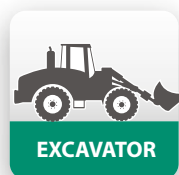
## AM-FM Reception

Pag 45

La qualità delle antenne e dei cavi Calearo crea un sistema di ricezione tale da ottimizzare l'ascolto dell'autoradio sfruttando tutte le caratteristiche del Vostro apparecchio. Dall'installazione in auto, all'allestimento di cabine per macchine agricole o microcar, Calearo garantisce estrema funzionalità, affidabilità e durata nel tempo dei materiali. Anche la più semplice antenna Calearo Vi assicura un'eccellente qualità d'ascolto!

*The quality of Calearo antennas and cables is such as to create a reception system that will optimize the sound of your car radio by making the most of all its features. Fitted to a saloon car or a microcar, or the cab of an agricultural vehicle, a Calearo antenna guarantees total functional efficiency, reliability and durability of the materials used in manufacture. Even with the simplest Calearo antenna system, your in-car listening pleasure is assured!*





## Calearo Group: One vision



### **Calearo: si scrive qualità, si legge fiducia. Questa la nostra filosofia.**

La qualità per il Gruppo Calearo è un concetto globale, che trova applicazione non solo nel prodotto e nella tecnologia applicata, ma che si estende anche all'intera organizzazione aziendale, ai sistemi produttivi e di distribuzione, al servizio clienti, alla ricerca e all'innovazione. Testimoni di questo impegno concreto e garanzia di una Qualità Totale, sono le importanti certificazioni ottenute: UNI EN ISO 9001 / ISO TS 16949.

Tutte le antenne Calearo, inoltre, rispondono alle Normative Europee sulla compatibilità elettromagnetica.

La qualità che contraddistingue i nostri prodotti ha immediatamente conquistato la fiducia di alcune tra le più importanti case automobilistiche internazionali:

Gruppo Volkswagen: Audi, Volkswagen, Seat, Skoda e Bentley

Gruppo RSA: Renault, Nissan

Gruppo FCA: Fiat, Lancia, Alfa Romeo, Maserati

Gruppo PSA: Peugeot, Citroën e DS

Gruppo Volvo Trucks

Ferrari

che hanno scelto di equipaggiare le loro vetture con le antenne Calearo.

### **Calearo: is written as quality, reads trust. This is our philosophy**

Top Quality is a global concept involving products and technology as well as the whole company organization from production processes to distribution, from customer satisfaction to research and innovation.

A Top Quality System attested by the prestigious certificates UNI EN ISO 9001 and ISO TS 16949 awarded to Calearo Antenne.

All Calearo antennas have been certified in compliance with the European standards on electromagnetic compatibility.

The quality of Calearo have won the trust of some of the most prestigious International car manufacturers, such as:

Volkswagen Group: Audi, Volkswagen, Seat, Skoda and Bentley

RSA Group: Renault, Nissan

FCA Group: Fiat, Lancia, Alfa Romeo, Maserati,

PSA Group: Peugeot, Citroën and DS

Volvo Trucks Group

Ferrari

who have chosen Calearo Antennas for their automobiles.






## Excellence in Communication



 **Calereo amplia la propria offerta di prodotti, introducendo accanto alle antenne per il settore automotive, una gamma di soluzioni altamente professionali per base station e sistemi di telemetria nel settore industriale. Tecnologia WIFI di ultima generazione abbinata alle bande GSM, UMTS, LTE e GPS, sono le principali funzioni per le antenne dedicate alle telecomunicazioni wireless.**

 Calereo extends its product offering, with antennas for the automotive sector now complemented by a range of highly professional solutions for base station and telemetry in the industrial sector. Next-generation WIFI technology combined with the GSM, UMTS, LTE and GPS bands are the main functions for antennas dedicated to wireless telecommunications.

 Calereo erweitert sein Produktangebot und führt neben den Autoantennen eine Linie hochprofessioneller Lösungen für Basisstation und Telemetrie im gewerblichen Bereich. WiFi-Technologie der jüngsten Generation kombiniert mit den GSM-, UMTS-, LTE- und GPS-Bandbreiten sind die Hauptfunktionen für die Antennen der drahtlosen Telekommunikation.

### 10 - Antenne Multifunzione

Multi-function antennas / Mehrfunktions-Antennen  
Antennes multi-fonction / Antenas multi-función  
Мульти-функциональные антенны  
Multifunctionele antennes

### 16 - Antenne GSM

GSM antennas / GSM-Antennen / Antennes GSM  
Antenas GSM / GSM антенны / GSM antennes

### 18 - Antenne GPS

GPS antennas / GPS-Antennen / Antennes GPS  
Antenas GPS / GPS антенны / GPS antennes


### 20 - Antenne GSM per base station

GSM antennas for base station / GSM-Antennen für Basisstation / Antennes GSM pour station de base / Antenas GSM para estación base / Антенны GSM для фиксированной установки / GSM-antennes voor basisstation

### 22 - Antenne WIFI per base station

WiFi antennas for base station / WiFi-Antennen für Basisstation / Antennes WiFi pour station de base / Antenas WiFi para estación base / Антенны WiFi для фиксированной установки / WiFi-antennes voor basisstation

 Calereo élargit son offre de produits, en complétant sa gamme d'antennes pour le secteur automobile par des solutions hautement professionnelles pour station de base dans le secteur industriel. Technologie WIFI de la dernière génération et bandes GSM, UMTS, LTE et GPS : telles sont les principales fonctions pour les antennes destinées aux télécommunications sans fil.

 Calereo amplia su oferta de productos, introduciendo, junto con las antenas para el sector de la automoción, una gama de soluciones para estación base, altamente profesionales, en el sector industrial. La tecnología WIFI de última generación, combinada con las bandas GSM, UMTS, LTE y GPS, son las principales funciones para las antenas dedicadas a las telecomunicaciones inalámbricas.

 Компания Calereo расширяет свое предложение продукции, помещая рядом с антеннами для автотранспортных средств набор высоко профессиональных решений для промышленности, подразумевающих фиксированную установку. Технология WIFI последнего поколения в сочетании со стандартами GSM, UMTS, LTE и GPS – это основные функции для антенн, предназначенных для беспроводной связи.

 Calereo introduceert naast de antennes voor de autobranche tevens een assortiment superprofessionele oplossingen voor voor basisstation, bestemd voor de bedrijfssector. De meest geavanceerde WiFi-technologie in combinatie met de frequentiebanden GSM, UMTS, LTE en GPS zijn de belangrijkste functies voor de antennes voor toepassingen in de draadloze telecommunicatie.

# 1. GSM, UMTS, GPS, WIFI RECEPTION

## Antenne Multifunzione

Multi-function antennas / Mehrfunktions-Antennen / Antennes multi-fonction / Antenas multi-función / Мульти-функциональные антенны / Multifunctionele antennes



CAR



COMMERCIAL VEHICLE



EMERGENCY

7727095

### SHARK DUPLEX LTE

REAR ROOF ANTENNA

NEW

GSM - UMTS LTE / GPS



7727070

### SHARK 2 TWIFI & PHONE

REAR ROOF ANTENNA

AM-FM / WIFI / GSM-UMTS



#### Dati Tecnici - Technical Data - Technische Daten

Données techniques - Datos técnicos



L = 5 m  
Z = 50Ω  
C = 101 pF/m



L = 5 m  
Z = 50Ω  
C = 100 pF/m



FME F



SMB F

\*



GPS = 3÷5V



GSM = 890-960 / 1710-1880 MHz  
UMTS = 1900-2170 MHz  
GPS = 1575,42 ± 1,023 MHz  
LTE 698 ÷ 862 MHz  
LTE 2500 ÷ 2690 MHz



GSM TX < 1,5:1  
RX < 2:1  
GPS < 2:1  
LTE < 2,5:1



GSM = 0dB  
GPS ≥ 27dBi  
LTE = 0dB



GPS = 30 mA max

GSM = 4W  
LTE = 4W

L = 11,7 cm  
B = 7,6 cm  
H = 6,2 cm



15 mm  
15 mm  
R = 2 mm  
∅ 19 mm

\* Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
Adapaterkabel (siehe Seite 55 →)  
Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pag 55 →)

#### Dati Tecnici - Technical Data - Technische Daten

Données techniques - Datos técnicos



L = 5 m  
Z = 50Ω  
C = 101 pF/m



FME F



HC97 F



SMA M

\*



AM/FM = 12V



AM/FM = 0,52-1,71 / 88,0-108,0 MHz  
GSM = 890-960 / 1710-1880 MHz  
UMTS = 1900-2170 MHz  
WIFI = 2400÷2485 MHz



GSM TX < 1,5:1  
RX < 2:1  
WIFI < 2,5:1



GSM = 0dB  
WIFI = 0dB



AM/FM = 50 mA

GSM = 4W  
WIFI = 8W

L = 11,7 cm  
B = 7,6 cm  
H = 6,2 cm



15 mm  
15 mm  
R = 2 mm  
∅ 19 mm

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Cavo prolunga WIFI di alta qualità consigliato per applicazioni professionali (vedi pag 61)  
High quality extension cable advised for professional applications (see pag 61)



Multi-function antennas / Mehrfunktions-Antennen / Antennes multi-fonction / Antenas multi-función / Мульти-функциональные антенны / Multifunctionele antennes

7727055

**SHARK 2 TWIN SAT**

REAR ROOF ANTENNA

AM-FM / GPS



7727060

**SHARK 2 TWIFI**

REAR ROOF ANTENNA

AM-FM / WIFI



**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

**GPS**  
L = 5 m  
Z = 50Ω  
C = 100 pF/m

**GPS**  
SMB F

**AM/FM**  
HC97 F \*

**PHANTOM**  
AM/FM = 12V  
GPS = 3÷5V

**12V**  
AM/FM

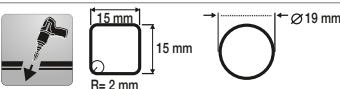
**MHz**  
AM/FM = 0,52-1,71 / 88,0-108,0 MHz  
GPS = 1575,42 ±1,023 MHz

**VSWR**  
GPS < 2:1

**dB**  
GPS ≥ 27dB<sub>i</sub>

**+ A**  
AM/FM = 50 mA  
GPS = 30 mA max

**Dimensions:**  
L = 11,7 cm  
B = 7,6 cm  
H = 6,2 cm



**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

**AM/FM**  
HC97 F

**WIFI**  
SMA M \*

**PHANTOM**  
AM/FM = 12V

**12V**  
AM/FM

**MHz**  
AM/FM = 0,52-1,71 / 88,0-108,0 MHz  
WIFI = 2400÷2485 MHz

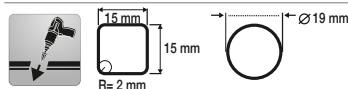
**VSWR**  
WIFI < 2,5:1

**dB**  
WIFI = 0dB

**+ A**  
AM/FM = 50 mA

**+ W**  
WIFI = 8W

**Dimensions:**  
L = 11,7 cm  
B = 7,6 cm  
H = 6,2 cm



\* Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
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Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pag 55 →)

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Cavo prolunga WIFI di alta qualità consigliato per applicazioni professionali (vedi pag 61)  
High quality extension cable advised for professional applications (see pag 61)

# 1. GSM, UMTS, GPS, WIFI RECEPTION

## Antenne Multifunzione

Multi-function antennas / Mehrfunktions-Antennen / Antennes multi-fonction / Antenas multi-función / Мульти-функциональные антенны / Multifuncionele antennes



7727065

### SHARK 2 TWIFI & SAT

**REAR ROOF ANTENNA**

AM-FM / WIFI / GPS



7727090

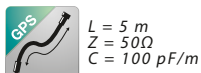
### SHARK 2 TRACK

**REAR ROOF ANTENNA**

WIFI DUAL BAND / GSM - UMTS / GPS



#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos


 $L = 5\text{ m}$   
 $Z = 50\Omega$   
 $C = 100\text{ pF/m}$ 


SMB F



HC97 F



SMA M \*


 AM/FM = 12V  
 GPS = 3÷5V

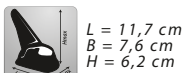
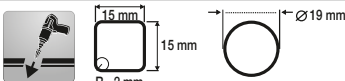
 AM/FM = 0,52-1,71 / 88,0-108,0 MHz  
 GPS = 1575,42 ± 1,023 MHz  
 WIFI = 2400÷2485 MHz

 GPS < 2:1  
 WIFI < 2,5:1

 WIFI = 0dB  
 GPS ≥ 27dB

 AM/FM = 50 mA  
 GPS = 30 mA max


WIFI = 8W


 $L = 11,7\text{ cm}$   
 $B = 7,6\text{ cm}$   
 $H = 6,2\text{ cm}$ 

 $15\text{ mm}$   
 $15\text{ mm}$   
 $R = 2\text{ mm}$   
 $\varnothing 19\text{ mm}$ 

\* Cavi adattatori (vedi pag 55 →)  
 Adapter cables (see pag 55 →)  
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Cavo prolunga WIFI di alta qualità consigliato  
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 High quality extension cable advised for  
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#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos


 $L = 5\text{ m}$   
 $Z = 50\Omega$   
 $C = 101\text{ pF/m}$ 

 $L = 5\text{ m}$   
 $Z = 50\Omega$   
 $C = 100\text{ pF/m}$ 


FME F



SMB F



SMA M \*



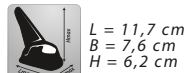
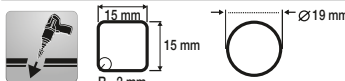
GPS = 3÷5V


 GSM = 890-960 / 1710-1880 MHz  
 UMTS = 1900-2170 MHz  
 GPS = 1575,42 ± 1,023 MHz  
 WIFI = 2400÷2485 MHz  
 WIFI = 5180÷5805 MHz

 GSM TX < 1,5:1  
 RX < 2:1  
 GPS < 2:1  
 WIFI < 2,5:1

 GSM = 0dB  
 WIFI = 0dB  
 GPS ≥ 27dB


GPS = 30 mA max

GSM = 4W  
WIFI = 8W
 $L = 11,7\text{ cm}$   
 $B = 7,6\text{ cm}$   
 $H = 6,2\text{ cm}$ 

 $15\text{ mm}$   
 $15\text{ mm}$   
 $R = 2\text{ mm}$   
 $\varnothing 19\text{ mm}$ 

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Multi-function antennas / Mehrfunktions-Antennen / Antennes multi-fonction / Antenas multi-función / Мульти-функциональные антенны / Multifunctionele antennes

7727075

**SHARK 2 QUAD**

REAR ROOF ANTENNA

AM-FM / WIFI / GSM-UMTS / GPS



**SHARK DUPLEX**

REAR ROOF ANTENNA

O.E. SUPPLY

GSM - UMTS / GPS



7727001



7727002



7727005



7727011



7730174



**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

**GSM** L = 5 m  
Z = 50Ω  
C = 101 pF/m

**GPS** L = 5 m  
Z = 50Ω  
C = 100 pF/m

**GSM** FME F    **GPS** SMB F    **AM/FM** HC97 F    **WIFI** SMA M \*

**PHANTOM** AM/FM = 12V  
GPS = 3÷5V

**MHz** AM/FM = 0,52-1,71 / 88,0-108,0 MHz  
GSM = 890-960 / 1710-1880 MHz  
UMTS = 1900-2170 MHz  
GPS = 1575,42 ± 1,023 MHz  
WIFI = 2400÷2485 MHz

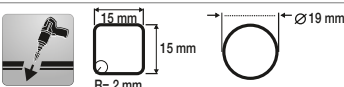
**VSWR** GSM TX < 1,5:1  
RX < 2:1  
GPS < 2:1  
WIFI < 2,5:1

**dB** GSM = 0dB  
WIFI = 0dB  
GPS ≥ 27dB

**A** AM/FM = 50 mA  
GPS = 30 mA max

**W** GSM = 4W  
WIFI = 8W

L = 11,7 cm  
B = 7,6 cm  
H = 6,2 cm



**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

**GSM** L = 5 m    **GPS** L = 5 m

**PHANTOM** GPS = 3÷5V

**MHz** GSM = 890-960 / 1710-1880 MHz  
UMTS = 1900-2170 MHz  
GPS = 1575,42 ± 1,023 MHz

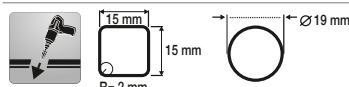
**VSWR** GSM TX < 2:1  
RX < 2,5:1  
GPS ≤ 2:1

**dB** GSM = 0dB  
GPS ≥ 22 dB

**A** GPS = 30 mA max

**W** GSM = 4W

L = 6 cm  
B = 4,5 cm  
H = 5 cm



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Cavo prolunga WIFI di alta qualità consigliato per applicazioni professionali (vedi pag 61)  
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Adapaterkabel (siehe Seite 55 →)  
Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pag 55 →)



# 1. GSM, UMTS, GPS, WIFI RECEPTION

## Antenne Multifunzione

Multi-function antennas / Mehrfunktions-Antennen / Antennes multi-fonction / Antenas multi-función / Мульти-функциональные антенны / Multifunctionele antennes



CAR



COMMERCIAL VEHICLE



EMERGENCY



TRUCK

### LUNEX

UNIVERSAL

PATCH ANTENNA

GSM-UMTS / GPS



7681083

### ROUNDEX

ROOF ANTENNA

GSM-UMTS / GPS



7730175 Internal  
7730220 Water resistant



GSM

FME F



GPS

SMB F

7730218 Internal



GSM

FME F



GPS

SMA M

7730219 Internal



GSM

FAKRA F



GPS

FAKRA F

7730226 Internal



GSM

SMA M



GPS

SMA M

**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos



L = 3,5 m



L = 3,5 m



GPS = 3 ÷ 5V



GSM = 890-960 / 1710-1880 MHz  
UMTS = 1900-2170 MHz  
AMPS = 824-894 / 1850-1990 MHz  
GPS = 1575,42 ± 1,023 MHz



GSM TX < 2:1  
RX < 2,5:1  
GPS ≤ 2:1



GPS = 30 mA max



GSM = 4W



GSM = 0dB  
GPS ≥ 22 dBi



L = 10 cm  
B = 5 cm  
H = 1,4 cm



Interno adesivo a vetro - Internal adhesive on-glass  
Intern on-glass Kleb-Einbau - A verre intérieur, adhésif  
Para cristal a l'intérieur, adhesivo  
Внутренняя, клеящая на стекло

Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
Adapaterkabel (siehe Seite 55 →)  
Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pag 55 →)

**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos



L = 3,5 m  
Z = 50Ω  
C = 101 pF/m



L = 3,5 m  
Z = 50Ω  
C = 100 pF/m



SMA M



SMA M



GPS = 3 ÷ 5V



GSM = 890-960 / 1710-1880 MHz  
UMTS = 1900-2170 MHz  
GPS = 1575,42 ± 1,023 MHz



GSM TX < 2:1  
RX < 2,5:1  
GPS ≤ 2:1



GPS = 30 mA max



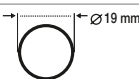
GSM = 4W



GSM = 0dB  
GPS ≥ 22 dBi



Ø = 7 cm  
H = 1,5 cm



Ø19 mm

Multi-function antennas / Mehrfunktions-Antennen / Antennes multi-fonction / Antenas multi-función / Мульти-функциональные антенны / Multifunctionele antennes

**7680210**  
**TRIPLEX**

**REAR ROOF ANTENNA**  
**AM-FM / GSM / GPS**

**O.E. SUPPLY**

**7687052**  
**TWIN 16V BLOCK**

**REAR ROOF ANTENNA**  
**AM-FM / GSM**

**O.E. SUPPLY**

**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

L = 5 m Z = 50Ω C = 101 pF/m	L = 5 m Z = 50Ω C = 100 pF/m	
FME F	SMB F	HC97 F *
41 cm	60°	AM/FM = 12V GPS = 3÷5V
AM/FM = 0,52-1,71 / 76-108 MHz GSM = 890-960 / 1710-1880 MHz GPS = 1575,42 ± 1,023 MHz	GSM TX ≤ 1,5:1 RX ≤ 2:1 GPS ≤ 2:1	
GSM = 0dB GPS ≥ 27dBi	AM/FM = 42mA GPS = 30mA max	GSM = 8W
L = 9,8 cm B = 5 cm	7551027	
15 mm 15 mm R=2 mm	Ø19 mm	

\* Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
Adapaterkabel (siehe Seite 55 →)  
Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pag 55 →)

**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

L = 5 m Z = 50Ω C = 101 pF/m				
FME F	HC97 F *			
41 cm	60°	AM/FM	12V	AM/FM
AM/FM = 0,52-1,71 / 76-108 MHz GSM = 890 - 960 / 1710-1880 MHz AMP = 824 - 894 MHz Pcs = 1850 ÷ 1990 MHz	GSM TX < 1,5:1 RX < 2,0:1			
GSM = 0dB	AM/FM ≤ 60mA	GSM = 8W		
L = 6 cm B = 4,3 cm				
15 mm 15 mm R=2 mm	Ø19 mm			

\* Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
Adapaterkabel (siehe Seite 55 →)  
Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pag 55 →)

# 1. GSM, UMTS, GPS, WIFI RECEPTION



## Antenne GSM / UMTS

GSM antennas / GSM-Antennen / Antennes GSM / Antenas GSM / GSM антенны / GSM antennes

### FLEXY

PATCH ANTENNA

WATER RESISTANT

GSM DCS / UMTS



### ON-ROOF

UNIVERSAL ROOF ANTENNA

GSM DCS



7681086



FME F

7681088



FAKRA F

7681089



SMA M

7681052



FME F

8610028



FAKRA F

8610038



FAKRA F 360°

7680141



MMCXM

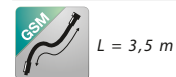
7681430



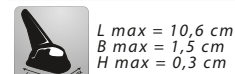
FAKRA F 360°

#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos

#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos



L = 3,5 m



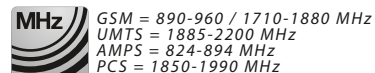
L max = 10,6 cm  
B max = 1,5 cm  
H max = 0,3 cm



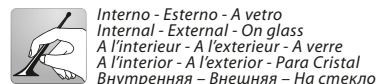
2,1 dBi



8W



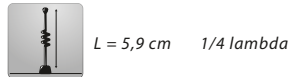
GSM = 890-960 / 1710-1880 MHz  
UMTS = 1885-2200 MHz  
AMPS = 824-894 MHz  
PCS = 1850-1990 MHz



Interno - Esterno - A vetro  
Internal - External - On glass  
A l'intérieur - A l'extérieur - A verre  
A l'interior - A l'exterior - Para Cristal  
Внутренняя - Внешняя - На стекло



L = 5 m



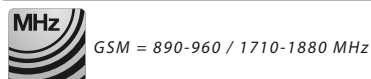
L = 5,9 cm 1/4 lambda



2,1 dBi



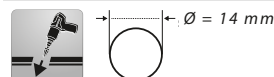
10W



GSM = 890-960 / 1710-1880 MHz



7551029



Ø = 14 mm



**7681056**

**ON-ROOF**

UNIV. ROOF ANTENNA  
GSM DCS



**7681085**

**MAGNETIC**

UNIVERSAL  
GSM DCS / UMTS



**MAGNETIC EVOLUTION**

UNIVERSAL  
GSM DCS / DECT / UMTS



8610097 8610102 8610096

FME F MCX 90° SMA M

8610105 8610119

MCX 90° L = 3,5 m SMA M L = 10 m

**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**

**RG58**  
L = 5 m  
Z = 50Ω  
C = 101 pF/m

**FME F** \*

L = 25 cm collinear

**dB** 5,1 dBi **+W** 10W

**MHz** GSM = 890-960 / 1710-1880 MHz

7551032

Ø = 14 mm

**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**

**RG174**  
L = 3 m  
Z = 50Ω  
C = 101 pF/m

**FME F**

L = 9 cm 1/4 lambda

**dB** 2,1 dBi **+W** 20W

**MHz** GSM = 824-960 / 1710-1880 MHz  
UMTS = 1900-2100 MHz

B max = Ø 2,8 cm

Montaggio magnetico  
Magnetic mounting system  
Magnet-Einbau - Montage magnétique  
Montaje magnético - Магнитная основа

**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**

**RG174**  
L = 2,5 m  
Z = 50Ω  
C = 101 pF/m

L = 7,1 cm

**dB** 2,1 dBi **+W** 2,5W GSM

**MHz** GSM = 824-960 / 1710-1880 MHz  
UMTS = 1900-2100 MHz  
DECT = 1850 : 2000 MHz

B max = Ø 2,8 cm

Montaggio magnetico  
Magnetic mounting system  
Magnet-Einbau - Montage magnétique  
Montaje magnético - Магнитная основа

\* Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
Adapterkabel (siehe Seite 55 →)  
Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pag 55 →)

# 1. GSM, UMTS, GPS, WIFI RECEPTION



## Antenne GSM e GPS

GSM - GPS antennas / GSM-GPS-Antennen / Antennes GSM - GPS / Antenas GSM - GPS / GSM - GPS антенны / GSM - GPS antennas

7687020

### SHARK PHONE

**REAR ROOF ANTENNA**
**O.E. SUPPLY FORNITO  
DI SERIE**
**GSM DCS**


7727004

### SHARK SAT

**REAR ROOF ANTENNA**
**GPS**

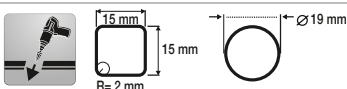

#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos

**RG58**  
 $L = 5\text{ m}$   
 $Z = 50\Omega$   
 $C = 101\text{ pF/m}$ 
**FME F** \*

**VSWR** GSM TX < 2:1  
 RX < 2,5:1

**MHz**  
 GSM = 890-960 / 1710-1880 MHz  
 UMTS = 1900-2170 MHz

**dB** 0dB **+ W** 4W


 $L = 6\text{ cm}$   
 $B = 4,5\text{ cm}$   
 $H = 5\text{ cm}$ 


\* Cavi adattatori (vedi pag 55 →)  
 Adapter cables (see pag 55 →)  
 Adapterkabel (siehe Seite 55 →)  
 Câbles adaptateurs (voir page 55 →)  
 Cables adaptadores (ver pag 55 →)

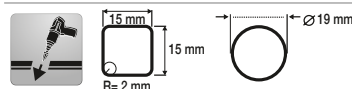
#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos

 $L = 5\text{ m}$   
 $Z = 50\Omega$   
 $C = 101\text{ pF/m}$ 
**SMB F** \*

**PHANTOM**  
 GPS = 3 ÷ 5 V

**MHz** GPS = 1575,42 ± 1,023 MHz **VSWR** GPS ≤ 2:1

**dB** GPS ≥ 22 dBi **+ A** GPS = 30 mA max


 $L = 6\text{ cm}$   
 $B = 4,5\text{ cm}$   
 $H = 5\text{ cm}$ 


\* Cavi adattatori (vedi pag 55 →)  
 Adapter cables (see pag 55 →)  
 Adapterkabel (siehe Seite 55 →)  
 Câbles adaptateurs (voir page 55 →)  
 Cables adaptadores (ver pag 55 →)

### NAVI SMALL

**INTERNAL ADHESIVE**

**UNIVERSAL**  
GPS



**7750004** **7750006** **7750012**

SMB F FAKRA F SMA M

### NAVI SMALL

**EXTERNAL WATER RESISTANT MAGNETIC**

**UNIVERSAL**  
GPS




**7750005** **7752006** **7750022**

SMB F MCX M FAKRA F 360°


**7750011** **7750020**

FAKRA F MCX M L = 1,5 m

**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

 L = 3,5 m


 GPS = 3 ÷ 5 V


 GPS = 1575,42 ± 1,023 MHz

 VSWR GPS ≤ 2:1

 GPS ≥ 22 dBi

 + A GPS = 22 mA max

 L = 3,5 cm  
B = 4,5 cm  
H = 1,3 cm


 **Montaggio adesivo - Adhesive mounting**  
Kleb-Einbau - Montage adhésif  
Montaje adhesivo - Клеящая основа

Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
Adapaterkabel (siehe Seite 55 →)  
Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pag 55 →)

**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos


 L = 3,5 m


 GPS = 3 ÷ 5 V

 GPS = 1575,42 ± 1,023 MHz

 VSWR GPS ≤ 2:1

 GPS ≥ 22 dBi

 + A GPS = 22 mA max

 L = 3,5 cm  
B = 4,5 cm  
H = 1,3 cm

 **Montaggio magnetico - Magnetic mounting system**  
Magnet-Einbau - Montage magnétique  
Montaje magnético - Магнитная основа

Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
Adapaterkabel (siehe Seite 55 →)  
Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pag 55 →)



# 1. GSM, UMTS, GPS, WIFI RECEPTION



## Antenne GSM per base station

GSM antennas for base station / GSM-Antennen für Basisstation / Antennes GSM pour station de base / Antenas GSM para estación base / Антенны GSM для фиксированной установки / GSM-antennes voor basisstation

### COMPACT DIRECTIONAL

ON MAST / WALL ANTENNA

GSM DCS - UMTS - DECT



8610021



8610045



8610069



8610064



### OMNIDIRECTIONAL ARRAY 3G

ON MAST / WALL ANTENNA

GSM DCS - UMTS - WIFI - LTE



8610125



8610124



8610127



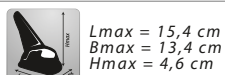
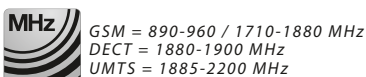
8610130



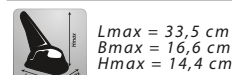
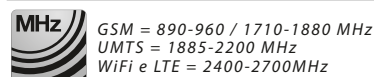
8610136



#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos



#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos



GSM antennas for base station / GSM-Antennen für Basisstation / Antennes GSM pour station de base / Antenas GSM para estación base / Антенны GSM для фиксированной установки / GSM-antennes voor basisstation

**MONOPOLE EVOLUTION TRIBAND**

ON DEVICE

GSM DCS - UMTS - WIFI - BLUETOOTH



**MONOPOLE DUAL BAND**

ON DEVICE

GSM DCS - UMTS - WIFI - BLUETOOTH



8610103



SMA M 90°

8610118



FME F

8610121



SMA M

8610010



SMA M

8610080



UFL F  
L = 20 cm

8610123



UFL F

**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

**VSWR** GSM TX < 2:1  
RX < 2:1

**dB** 2,1dBi

**+ W** 2,5W

**MHz** GSM = 890-960 / 1710-1880 MHz  
UMTS = 1885-2200 MHz  
WiFi = 2400-2500 MHz  
Bluetooth

**Ø 9,5 mm**  
Hmax = 6,1 cm

**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

**VSWR** GSM TX < 2:1  
RX < 2:1  
WIFI < 2,5:1

**dB** 2,1dBi

**+ W** 4W

**MHz** GSM = 890-960 / 1710-1880 MHz  
WiFi = 2400-2500 MHz  
Bluetooth

**Ø 10 mm**  
Hmax = 7,4 cm

# 1. GSM, UMTS, GPS, WIFI RECEPTION



## Antenne WiFi per base station

WiFi antennas for base station / WiFi-Antennen für Basisstation / Antennes WiFi pour station de base / Antenas WiFi para estación base / Антенны WiFi для фиксированной установки / WiFi-antennes voor basisstation

8610098

### CEILING

ON WALL ANTENNA

WIFI / HYPERLAN



8610029

### DIRECTIONAL PLANAR REFLECTOR

ON MAST ANTENNA

WIFI



7680381

### FLEXY WLAN

PATCH ANTENNA

WATER RESISTANT

WIFI / HYPERLAN



**Dati Tecnici** - Technical Data - Technische Daten - Données techniques - Datos técnicos



SMA F

**VSWR** WIFI < 2,5:1

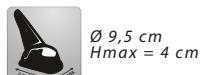


4dBi



**W** 50 W  
@ 30° C (CW)

**MHz** WIFI = 2400-2500 MHz  
HyperLAN = 4900-5900 MHz



Ø 9,5 cm  
Hmax = 4 cm



**Dati Tecnici** - Technical Data - Technische Daten - Données techniques - Datos técnicos



SMA M

**VSWR** WIFI < 2,5:1



4dBi



**W** 20W  
@ 30° C (CW)

**MHz** WIFI = 1710-2500 MHz



Lmax = 5 cm  
Bmax = 17 cm  
Hmax = 17 cm

**Dati Tecnici** - Technical Data - Technische Daten - Données techniques - Datos técnicos



L = 20 cm



SMA M

**VSWR** WIFI < 2,5:1

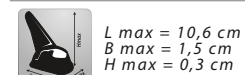


2,1dBi

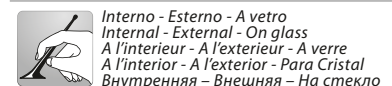


**W** 2,5W

**MHz** WIFI = 2400-2500 MHz  
HyperLAN = 4900-5900 MHz



L max = 10,6 cm  
B max = 1,5 cm  
H max = 0,3 cm



Interno - Esterno - A vetro  
Internal - External - On glass  
À l'intérieur - À l'extérieur - A verre  
A l'intérieur - A l'extérieur - Para Cristal  
Внутренняя - Внешняя - На стекло




## 2. TETRA, UHF, VHF RECEPTION




### Excellence in Communication



 **Ampio spazio alle bande di frequenza speciali, dedicate al settore RADIOTAXI (VHF 146-174MHz e UHF 430-470MHz), alle telecomunicazioni professionali di pubblica sicurezza e di emergenza, e a quelle private (TETRA 380-430MHz). Prodotti singola funzione e multifunzione, garantiscono funzionalità e semplicità di installazione, integrandosi totalmente con il veicolo.**

 Extensive focus on special frequency bands, used by radio taxi operators (VHF 146-174MHz and UHF 430-470MHz), professional telecommunications involving police and emergency services, and private telecommunications (TETRA 380-430MHz). Single and multifunction products guarantee functional efficiency and simple installation as well as full integration into the vehicle.


 Eine bedeutende Rolle spielen die speziellen Frequenzbänder der FUNKTAXI Branche (VHF 146-174MHz und UHF 430-470MHz), der professionellen Telekommunikation für öffentliche Sicherheit und Notfallsysteme und des privaten Bereichs (TETRA 380-430MHz). Mono- oder Multifunktionsprodukte garantieren Funktionalität und einfache Installation und lassen sich perfekt in das Fahrzeug integrieren.


**24 - Antenne VHF/UHF**  
VHF-UHF antennas / VHF-UHF-Antennen  
Antennes VHF-UHF / Antenas VHF-UHF  
VHF-UHF антенны / VHF-UHF antennes

**27 - Antenne TETRA**  
TETRA antennas / TETRA-Antennen  
Antennes TETRA / Antenas TETRA  
TETRA антенны / TETRA antennes

**28 - Splitter TETRA e GPS**  
TETRA and GPS splitters / Splitter TETRA und GPS  
Séparateur TETRA et GPS / Divisor TETRA y GPS  
Распределитель TETRA и GPS / TETRA en GPS splitters

 Une grande place est accordée aux bandes de fréquences spéciales, destinées au secteur des RADIOTAXIS (VHF 146-174MHz et UHF 430-470MHz), aux télécommunications professionnelles de sécurité publique et d'urgence, et aux télécommunications privées (TETRA 380-430MHz). Les produits à une fonction et multifonctions garantissent un fonctionnement optimal et une installation simple, en s'intégrant parfaitement au véhicule.

 Un amplio espacio se reserva para las bandas de frecuencias especiales, dedicadas al sector del RADIO TAXI (VHF 146-174MHz y UHF 430-470MHz), a las telecomunicaciones profesionales de seguridad pública y de emergencia, y a aquellas particulares (TETRA 380-430MHz). Equipos con función única y multifunción que garantizan funcionalidad y sencillez de instalación, integrándose completamente con el vehículo.

 Большое пространство для специальных диапазонов частоты, предназначенных для РАДИОТАКСИ (VHF 146-174 мГц и UHF 430-470 мГц), профессиональной связи для общественной безопасности и аварийно-спасательных служб, а также для частной связи (TETRA 380-430 мГц). Продукция с одной или несколькими функциями обеспечивает практичность и простоту установки при полной интеграции с транспортным средством.

 Veel aandacht voor de speciale frequentiebanden bestemd voor TAXI'S MET MOBILOFOON (VHF 146-174MHz en UHF 430-470MHz), voor professionele telecommunicatie op het gebied van openbare veiligheid en crisisbeheersing en voor de particuliere sector (TETRA 380-430MHz). Producten met enkel- en meervoudige functies, gegarandeerd efficiënt en volledig in het voertuig geïntegreerd.

# 2. TETRA, UHF, VHF RECEPTION

## Antenne VHF / UHF

VHF-UHF antennas / VHF-UHF-Antennen / Antennes VHF-UHF / Antenas VHF-UHF / VHF-UHF антенны / VHF-UHF antennas



**7771002**  
**16V VHF**

**ROOF ANTENNA**  
VHF 146÷174 MHz

Tabella di taratura asta  
Rod Tuning Table

**COMBI VHF**

**ROOF ANTENNA**  
VHF 146÷174 MHz / GPS

Tabella di taratura asta  
Rod Tuning Table

**7771000** **7771006**

VHF cable without connector

**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

$L = 5\text{ m}$ $Z = 50\Omega$ $C = 101\text{ pF/m}$	
FME F *	
38 cm	60°
VHF = 146÷174 MHz	VSWR VHF < 2:1 BW 2 MHz
VHF = 2,14 dBi	VHF = 20W
$L = 6\text{ cm}$ $B = 4,3\text{ cm}$ $H = 41\text{ cm}$	7551042
$15\text{ mm}$ $15\text{ mm}$ $R = 2\text{ mm}$	$\varnothing 19\text{ mm}$

**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

$L = 5\text{ m}$ $Z = 50\Omega$ $C = 101\text{ pF/m}$	$L = 5\text{ m}$ $Z = 50\Omega$ $C = 100\text{ pF/m}$
FME F	SMB F
38 cm	60°
VHF = 146÷174 MHz GPS = 1575,42 ± 1,023 MHz	VSWR VHF < 2:1 BW 2 MHz GPS < 2:1
VHF = 2,14 dBi GPS ≥ 27dBi	GPS = 30 mA
VHF = 20W	VHF = 20W
$L = 9,8\text{ cm}$ $B = 5\text{ cm}$ $H = 41\text{ cm}$	7551042
$15\text{ mm}$ $15\text{ mm}$ $R = 2\text{ mm}$	$\varnothing 19\text{ mm}$

\* Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
Adapaterkabel (siehe Seite 55 →)  
Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pag 55 →)

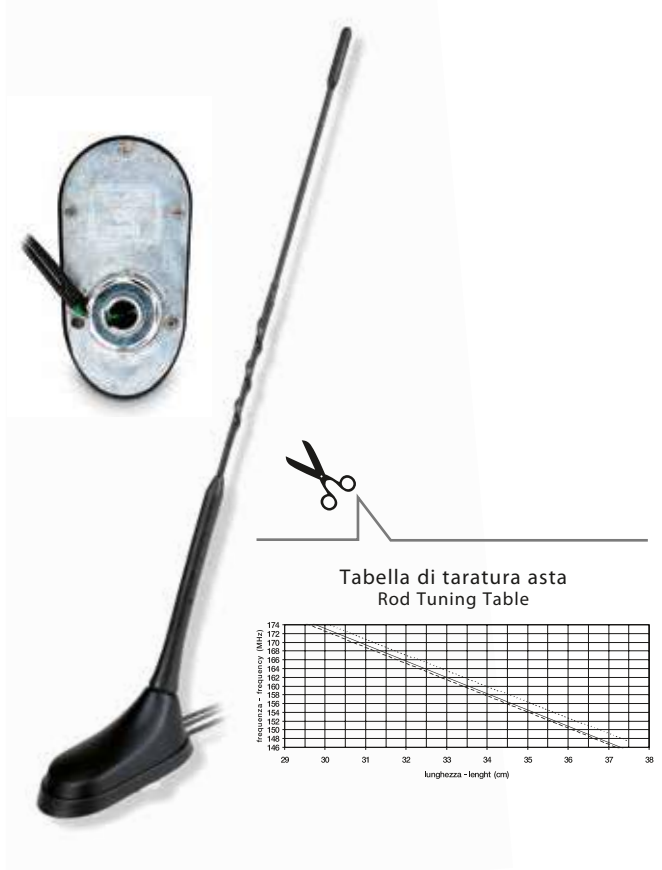
\* Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
Adapaterkabel (siehe Seite 55 →)  
Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pag 55 →)

7771005

**TRI VHF**

**ROOF ANTENNA**

VHF 146÷174 MHz / GSM / GPS

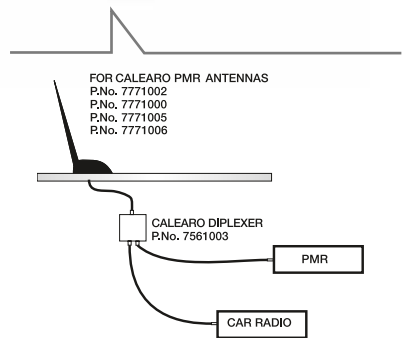


7561003

**DIPLEXER AM-FM / VHF**

**UNIVERSAL**

AM-FM / VHF 146÷174 MHz



**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

<b>VHF</b> L = 5 m Z = 50Ω C = 101 pF/m	<b>GPS</b> L = 5 m Z = 50Ω C = 101 pF/m	<b>GSM</b> L = 5 m Z = 50Ω C = 101 pF/m
<b>VHF</b> FME F	<b>GPS</b> SMB F	<b>GSM</b> FME F *
38 cm	60°	<b>PHANTOM</b> GPS = 3÷5V
<b>MHz</b> VHF = 146÷174 MHz GPS = 1575,42 ± 1,023 MHz GSM = 890-960 / 1710-1880 MHz	<b>VSWR</b> VHF <2:1 BW 2MHz GPS <2:1 GSM TX<1,5:1 RX<2:1	
<b>dB</b> VHF = 2,14 dBi GPS ≥ 27dBi GSM = 0dBi	<b>A</b> GPS = 30mA	<b>W</b> VHF = 20W GSM = 4W
<b>PHANTOM</b> L = 9,8 cm B = 5 cm H = 41 cm	<b>PHANTOM</b> 7551042	
<b>PHANTOM</b> 15 mm 15 mm R=2 mm	<b>PHANTOM</b> Ø19 mm	

**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

<b>AM/FM</b> L = 5 m Z = 50Ω C = 101 pF/m	
<b>AM/FM</b> FAKRA M *	
<b>PHANTOM</b> AM/FM = 12V	
<b>MHz</b> AM = 0,15÷0,285 MHz 0,52÷1,71 MHz 5,95÷6,2 MHz FM = 87,5÷108,0 MHz VHF = 146÷174 MHz	
<b>dB</b> AM/FM = 10dB	<b>A</b> AM/FM = 15mA
<b>PHANTOM</b> L = 5 cm B = 4,7 cm H = 1,5 cm	
<b>PHANTOM</b> Montaggio adesivo - Adhesive mounting Kleb-Einbau - Montage adhésif Montaje adhesivo - Клеящая основа	

\* Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
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Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pag 55 →)

## 2. TETRA, UHF, VHF RECEPTION

### Antenne VHF / UHF

Antenne VHF-UHF / VHF-UHF antennas / VHF-UHF-Antennen / Antennas VHF-UHF / Antenas VHF-UHF / VHF-UHF антенны / VHF-UHF antennes



7771003

### 16V UHF

**ROOF ANTENNA**

UHF 430÷470 MHz



7771001

### COMBI UHF

**ROOF ANTENNA**

UHF 430÷470 MHz / GPS



7771004

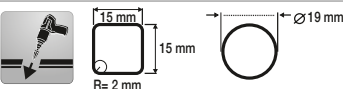
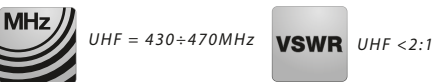
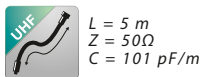
### TRI UHF

**ROOF ANTENNA**

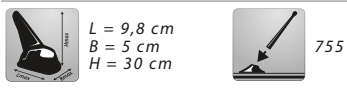
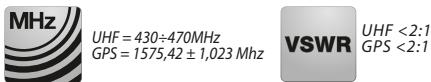
UHF 430÷470 MHz / GSM / GPS



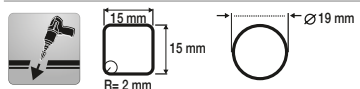
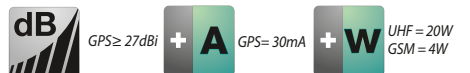
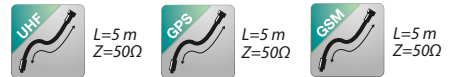
#### Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos



#### Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos



#### Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos



\* Cavi adattatori (vedi pag 55 →)  
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7681081

**TETRA ON-ROOF**

UNIVERSAL

TETRA 380-430 MHz



7727016

**MULTIFUNCTION ON-ROOF**

ROOF ANTENNA

NEW

TETRA / GSM DCS / GPS



**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

**TETRA**  
L = 5 m  
Z = 50Ω  
C = 101 pF/m

**TETRA**  
FME F \*

18 cm

**MHz** TETRA = 380÷430 MHz **VSWR** TETRA <2:1

**dB** TETRA = 1 dBi **+ W** TETRA = 20W

Ø = 14 mm

**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

**TETRA** FAKRA F

**GPS** FAKRA M

**GSM** FAKRA M \*

40 cm

60°

**PHANTOM** GPS = 3÷5V

**MHz** TETRA = 380÷430 MHz  
GPS = 1575,42 ± 1,023 MHz  
GSM = 890-960 / 1710-1880 MHz

**VSWR** TETRA <2:1  
GPS <2:1  
GSM TX<1,5:1  
RX<2:1

**dB** TETRA = 1 dBi  
GPS ≥27dBi  
GSM = 0 dB **+ A** GPS = 30mA

**+ W** TETRA = 20W  
GSM = 4W

L = 9,8 cm  
B = 5 cm  
H = 44 cm

15 mm  
15 mm  
R= 2 mm  
Ø19 mm

\* Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
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Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pág 55 →)

## 2. TETRA, UHF, VHF RECEPTION



### Splitter AM/FM e GPS

AM-FM and GPS splitters / Splitter AM-FM und GPS / Séparateur AM-FM et GPS / Divisor AM-FM y GPS / Распределитель AM-FM и GPS / AM-FM en GPS splitters

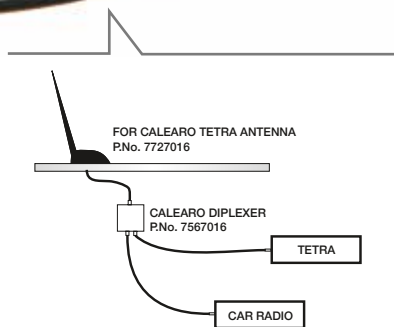
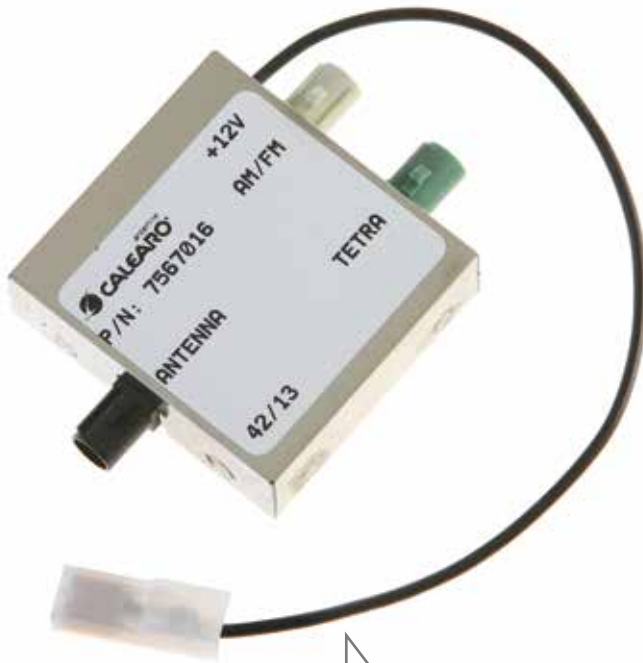
7567016

### DIPLEXER AM-FM/TETRA

UNIVERSAL

NEW

AM-FM / TETRA

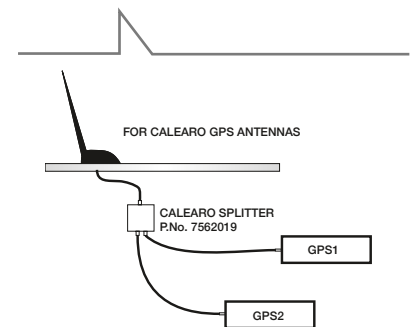
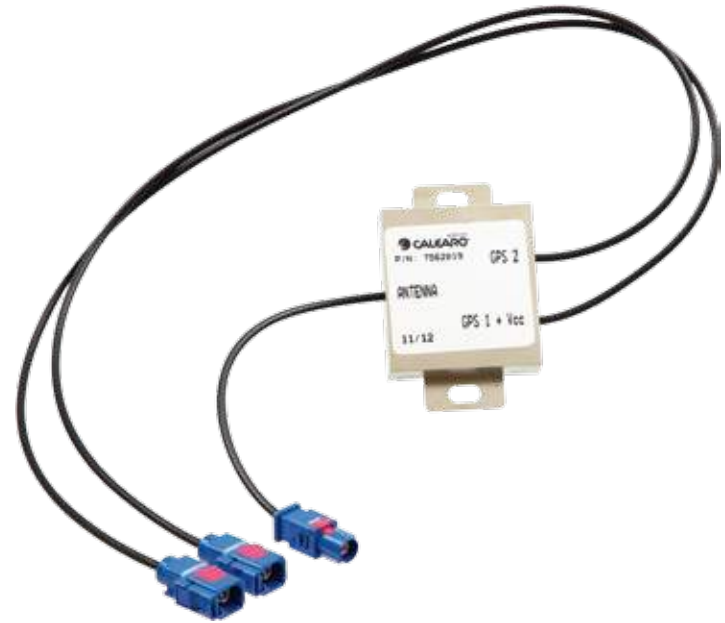


7562019

### SPLITTER GPS

UNIVERSAL

GPS / GPS



#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos



FAKRA M



AM/FM = 12V



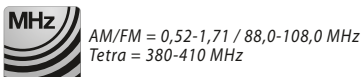
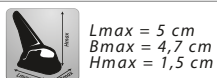
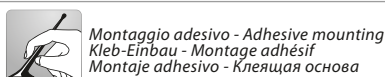
12V



AM/FM = 10dB



AM/FM = 15mA

AM/FM = 0,52-1,71 / 88,0-108,0 MHz  
Tetra = 380-410 MHzLmax = 5 cm  
Bmax = 4,7 cm  
Hmax = 1,5 cmMontaggio adesivo - Adhesive mounting  
Kleb-Einbau - Montage adhésif  
Montaje adhesivo - Клеящая основа

#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos



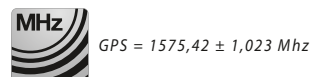
IN 1x Fakra M - OUT 2x Fakra F



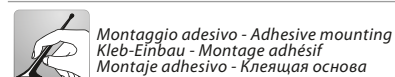
GPS = 3÷5V



GPS = 0dB



GPS = 1575,42 ± 1,023 Mhz

Lmax = 5 cm  
Bmax = 4,7 cm  
Hmax = 1,5 cmMontaggio adesivo - Adhesive mounting  
Kleb-Einbau - Montage adhésif  
Montaje adhesivo - Клеящая основа

# 3. DVB-S AND DVB-T RECEPTION




## Excellence in Communication



 **Calearo offre una nuova linea di antenne dedicate al mercato nautico e a quello dei veicoli per il tempo libero, come camper e caravan. Progettate, sviluppate e prodotte totalmente in Italia, le antenne per la ricezione del DVB-T e del DVB-S garantiscono performance di primo livello. Completano la gamma le ormai consolidate linee di antenne a vetro, Light e Dark TV, e a tetto, Bi-Tv, Tri-Tv e Shark Tv per tutto il mercato automotive.**

 **Calearo offers a new line of antennas for watercraft and recreational vehicles (campers, caravans and motor homes). Designed, developed and made entirely in Italy, antennas for DVB-T and DVB-S reception guarantee performance second to none. Completing the range are Calearo's well-known lines of antennas for the whole automotive market: Light and Dark TV, mounted on glass, and Bi-Tv, Tri-Tv and Shark Tv, roof-mounted.**

 **Calearo bietet eine neue Linie von Antennen für den Schiffmarkt, für den Markt der Freizeitfahrzeuge wie Reisemobile, Wohnwagen und Wohnmobile. Die gänzlich in Italien geplanten, entwickelten und produzierten Empfangsantennen für DVB-T und DVB-S garantieren erstklassige Leistungen. Abgerundet wird das Angebot durch die bewährte Linie von Scheibenantennen, Light und Dark TV, sowie von Dachantennen, Bi-Tv, Tri-Tv und Shark TV für den ganzen Automarkt.**

### 30 - Antenne DVB-S automatique

Automatic DVB-S antennas / Automatische DVB-S Antennen / Antennes DVB-S automatiques / Antenas DVB-S automáticas / Автоматические антенны DVB-S / Automatische DVB-S antennes

### 31 - Antenne DVB-T omnidirezionali


Omnidirectional DVB-T antennas / DVB-T Rundantennen / Antennes DVB-T omnidirectionnelles / Antenas DVB-T omnidireccionales / Всенаправленные антенны DVB-T / Omnidirectionele DVB-T antennes

### 32 - Antenne per sistemi TV in auto

Antennas for car TV systems / Antennen für Fernsehsysteme im Auto / Antennes pour systèmes TV en auto / Antenas por sistemas TV en el coche / Антенны для автомобильных ТВ систем / Antennes voor CAR TV systemen

 **Calearo propose une nouvelle ligne d'antennes destinées au marché nautique, à celui des véhicules de loisirs, tels que les camping-cars, les caravanes et les motor-homes. Entièrement projetées, développées et produites en Italie, les antennes pour la réception du DVB-T et du DVB-S garantissent des performances optimales. La gamme comprend également la ligne, maintenant consolidée, d'antennes pour vitre, Light et Dark TV, et de toit, Bi-Tv, Tri-Tv et Shark Tv pour tout le marché de l'automobile.**

 **Компания Calearo предлагает новую линию антенн, предназначенных для рынка плавсредств, для транспортных средств для отдыха, таких как кемперы, жилые прицепы и "дома на колесах". Спроектированные, разработанные и производимые полностью в Италии, принимающие антенны DVB-T и DVB-S обеспечивают характеристики высочайшего уровня. Гамму дополняют уже укрепившаяся линия антенн на стекло, Light и Dark TV, антенн для крыши, Bi-Tv, Tri-Tv и Shark Tv для всей автомобильном рынке.**

 **Calearo ofrece una nueva línea de antenas específicas para el mercado náutico, para aquel de los vehículos para el tiempo libre, tales como casas rodantes, caravanas y motorhomes. Las antenas para recepción DVB-T y DVB-S, diseñadas, desarrolladas y fabricadas por entero en Italia, garantizan un desempeño de primer nivel. La gama se completa con la conocida línea de antenas para cristal, Light y Dark TV, y para techo, Bi-Tv, Tri-Tv y Shark Tv para todo el mercado de la automoción.**

 **Calearo biedt een nieuwe lijn antennes voor de scheepvaart, voor vrijetijdsvoertuigen zoals kampeerwagens, caravans en motorhomes. De antennes voor ontvangst van DVB-T en DVB-S zijn volledig in Italië ontworpen, ontwikkeld en geproduceerd en staan garant voor prestaties van het hoogste niveau. Het assortiment is compleet met de welbekende lijn raamantennes, Light en Dark TV en dakantennes, Bi-Tv, Tri-Tv en Shark Tv voor de gehele autobranche.**

### 3. DVB-S AND DVB-T RECEPTION



#### Antenne DVB-S automatique

Automatic DVB-S antennas / Automatische DVB-S Antennen / Antennes DVB-S automatiques / Antenas DVB-S automáticas / Автоматические антенны DVB-S / Automatische DVB-S antennes

7138153

#### SATSHARK II AUTO D65

FULLY AUTOMATIC STATIONARY ROOF ANTENNA

**NEW**

DVB-S DIGITAL SATELLITE TV



User-Friendly MMI  
Man-Machine-Interface



7138154

#### SATSHARK II AUTO D85

FULLY AUTOMATIC STATIONARY ROOF ANTENNA

**NEW**

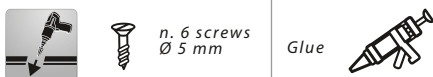
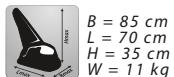
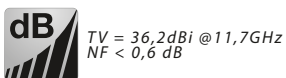
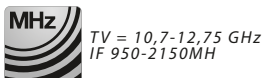
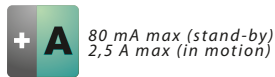
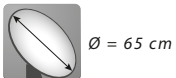
DVB-S DIGITAL SATELLITE TV



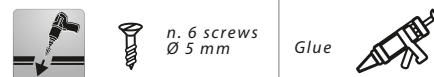
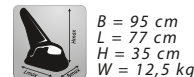
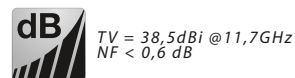
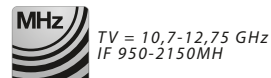
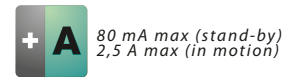
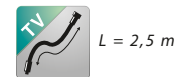
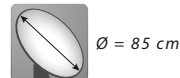
User-Friendly MMI  
Man-Machine-Interface



#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos



#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos





Omnidirectional DVB-T antennas / DVB-T Rundantennen / Antennes DVB-T omnidirectionnelles / Antenas DVB-T omnidireccionales / Всенаправленные антенны DVB-T / Omnidirectionele DVB-T antennes

7138053

**OMNICUDA**

OMNIDIRECTIONAL ON MAST / ON ROOF ANTENNA

DVB-T DIGITAL TERRESTRIAL TV



7138058

**OMNISHARK2**

OMNIDIRECTIONAL ON MAST / ON ROOF ANTENNA

**NEW**

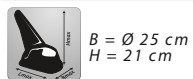
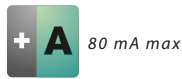
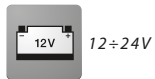
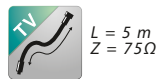
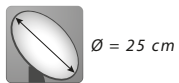
TV VHF-UHF WITH LTE FILTER



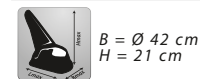
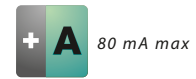
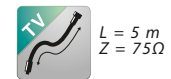
Adjustable High Gain Amplifier



**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos



**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos



### 3. DVB-S AND DVB-T RECEPTION

#### Antenne per sistemi TV in auto

Antennas for car TV systems / Antennen für Fernsehsysteme im Auto / Antennes pour systèmes TV en auto / Antenas por sistemas TV en el coche / Антенны для автомобильных ТВ систем / Antennes voor CAR TV systemen



7727080

#### SHARK 2 BI-TV

**REAR ROOF ANTENNA**
**AM-FM / ANALOGUE AND  
DIGITAL TERRESTRIAL TV**


7727085

#### SHARK 2 TRI-TV

**REAR ROOF ANTENNA**
**AM-FM / GPS / ANALOGUE  
AND DIGITAL TERRESTRIAL TV**


#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos


 $L = 5\text{ m}$   
 $Z = 75\Omega$ 

\*


 Mini Jack Mono  
 $\varnothing 3,5\text{ mm}$ 


HC97 F



AM/FM = 12V


 AM/FM = 12V  
 TV = 12V

 AM/FM = 0,52-1,71 / 87,5-108 MHz  
 TV = 44-68 MHz  
 174-230 MHz (III band)  
 470-862 MHz (IV and V band)
TV =  $15 \pm 2\text{ dB}$ 
 AM/FM = 50 mA max  
 TV = 40 mA max

 $L = 11,7\text{ cm}$   
 $B = 7,6\text{ cm}$   
 $H = 6,2\text{ cm}$ 

 $15\text{ mm}$   
 $15\text{ mm}$   
 $R = 2\text{ mm}$   
 $\varnothing 19\text{ mm}$ 

\* Cavi adattatori (vedi pag 55 →)  
 Adapter cables (see pag 55 →)  
 Adapterkabel (siehe Seite 55 →)  
 Câbles adaptateurs (voir page 55 →)  
 Cables adaptadores (ver pag 55 →)

#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos


 $L = 5\text{ m}$   
 $Z = 75\Omega$ 

 $L = 5\text{ m}$   
 $Z = 50\Omega$   
 $C = 100\text{ pF/m}$ 

\*


 Mini Jack Mono  
 $\varnothing 3,5\text{ mm}$ 


SMB F



HC97 F


 AM/FM = 12V  
 GPS = 3-5V

 AM/FM = 12V  
 TV = 12V

 AM/FM = 0,52-1,71 / 87,5-108 MHz  
 TV = 44-68 MHz  
 174-230 MHz (III band)  
 470-862 MHz (IV and V band)  
 GPS = 1575,42 ± 1,023 MHz


GPS 2:1


 TV =  $15 \pm 2\text{ dB}$   
 GPS = 27 dBi

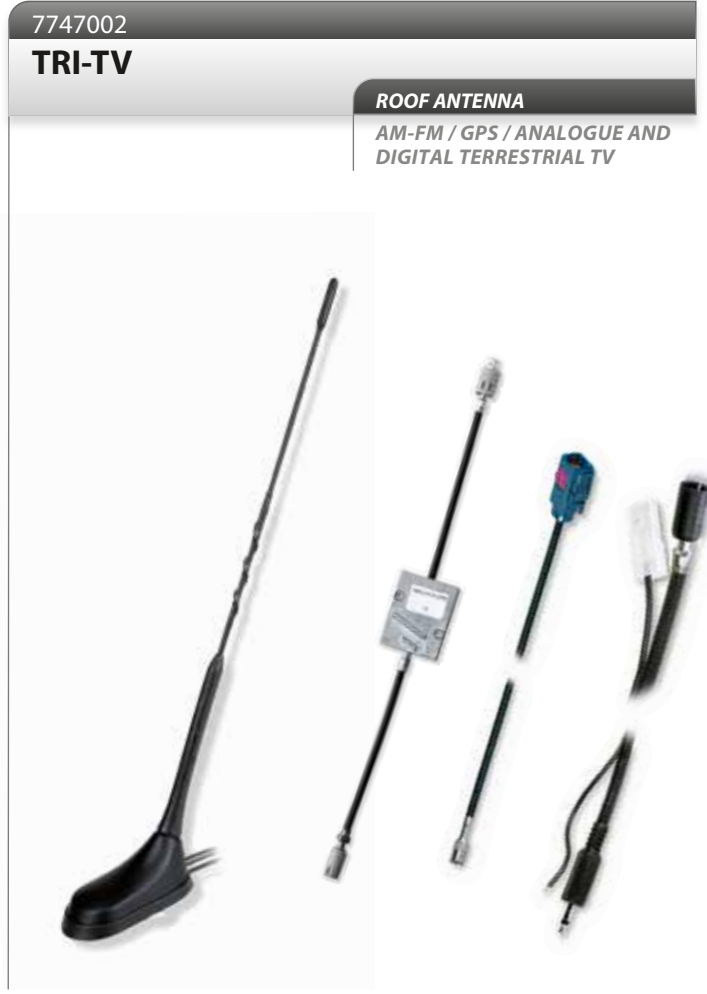
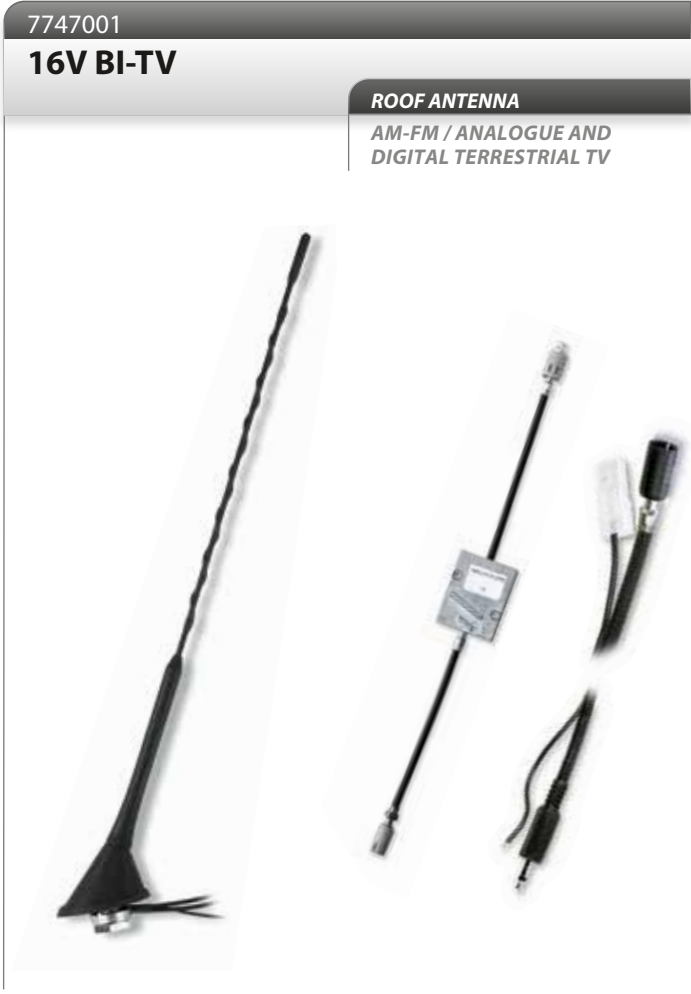
 AM/FM = 50 mA max  
 TV = 40 mA max  
 GPS = 30 mA max

 $L = 11,7\text{ cm}$   
 $B = 7,6\text{ cm}$   
 $H = 6,2\text{ cm}$ 

 $15\text{ mm}$   
 $15\text{ mm}$   
 $R = 2\text{ mm}$   
 $\varnothing 19\text{ mm}$ 

\* Cavi adattatori (vedi pag 55 →)  
 Adapter cables (see pag 55 →)  
 Adapterkabel (siehe Seite 55 →)  
 Câbles adaptateurs (voir page 55 →)  
 Cables adaptadores (ver pag 55 →)

Antennas for car TV systems / Antennen für Fernsehsysteme im Auto / Antennes pour systèmes TV en auto / Antenas por sistemas TV en el coche / Антенны для автомобильных ТВ систем / Antennes voor CAR TV systems



**Dati Tecnici - Technical Data - Technische Daten**  
**Données techniques - Datos técnicos**

$L = 5\text{ m}$ $Z = 75\Omega$ *	
Mini Jack Mono $\varnothing 3,5\text{ mm}$	HC97 F
41 cm	60°
AM/FM = 12V TV = 12V	AM/FM = 12V GPS = 3-5V
AM/FM = 0,52-1,71 / 87,5-108 MHz TV = 44-68 MHz 174-230 MHz (III band) 470-862 MHz (IV and V band)	
TV = 20±1dB GPS = 27 dBi	AM/FM = 50mAmax TV = 38mA
L = 6 cm B = 4,3 cm	7551038 7131017 (amplifier)
15 mm 15 mm R = 2 mm Ø19 mm	

\* Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
Adapaterkabel (siehe Seite 55 →)  
Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pag 55 →)

**Dati Tecnici - Technical Data - Technische Daten**  
**Données techniques - Datos técnicos**

$L = 5\text{ m}$ $Z = 75\Omega$	$L = 5\text{ m}$ $Z = 50\Omega$ $C = 100\text{ pF/m}$ *	
Mini Jack Mono $\varnothing 3,5\text{ mm}$	SMBF	HC97 F
41 cm	60°	
TV = 12V	AM/FM = 12V GPS = 3-5V	
AM/FM = 0,52-1,71 / 87,5-108 MHz TV = 44-68 MHz 174-230 MHz (III band) 470-862 MHz (IV and V band) GPS = 1575,42 ± 1,023 MHz	GPS = 2:1	
TV = 20±1dB GPS = 27 dBi	AM/FM = 50mAmax TV = 38mA GPS = 30mAmax	
L = 9,8 cm B = 5 cm	7551038 7131017 (amplifier)	
15 mm 15 mm R = 2 mm Ø19 mm		

\* Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
Adapaterkabel (siehe Seite 55 →)  
Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pag 55 →)

### 3. DVB-S AND DVB-T RECEPTION

#### Antenne per sistemi TV in auto



Antennas for car TV systems / Antennen für Fernsehsysteme im Auto / Antennes pour systèmes TV en auto / Antenas por sistemas TV en el coche / Антенны для автомобильных ТВ систем / Antennes voor CAR TV systemen

7137121

#### DARK TV ANTENNA

INTERNAL ON GLASS

ANALOGUE TV



**Dati Tecnici** - Technical Data - Technische Daten - Données techniques - Datos técnicos



L = 3 m  
Z = 75Ω



Mini Jack  
Ø 3.5 mm

Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
Adapaterkabel (siehe Seite 55 →)  
Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pag 55 →)



TV = 12V



14 ± 2 dB + A 35 mA max



TV = 44 – 68 MHz  
174 – 230 MHz (III band)  
470 – 862 MHz (IV and V band)



Lmax = 28 cm  
Bmax = 2,5 cm  
Hmax = 1,5 cm



Interno adesivo a vetro - Internal adhesive on-glass - Glasklebeantenne für internen Einbau - A verre intérieur, adhésif - Para cristal a l'interior, adhesivo - Внутренняя, клеящая на стекло

Low Noise Figure (dB) difference between the SNR (signal/noise ratio) at the input and at the output of the amplifier

7137124

#### DARK TV ANTENNA

INTERNAL ON GLASS

DIGITAL TERRESTRIAL TV



**Dati Tecnici** - Technical Data - Technische Daten - Données techniques - Datos técnicos



L = 5 m  
Z = 75Ω



F - M



TV = 5V



14 ± 2 dB + A 35 mA max



TV = 44 – 68 MHz  
174 – 230 MHz (III band)  
470 – 862 MHz (IV and V band)



Lmax = 28 cm  
Bmax = 2,5 cm  
Hmax = 1,5 cm



Interno adesivo a vetro - Internal adhesive on-glass - Glasklebeantenne für internen Einbau - A verre intérieur, adhésif - Para cristal a l'interior, adhesivo - Внутренняя, клеящая на стекло

Low Noise Figure (dB) difference between the SNR (signal/noise ratio) at the input and at the output of the amplifier

7137128

#### DARK TV ANTENNA

INTERNAL ON GLASS

DIGITAL TERRESTRIAL TV



**Dati Tecnici** - Technical Data - Technische Daten - Données techniques - Datos técnicos



L = 5 m  
Z = 75Ω



F - M



TV = 12V



14 ± 2 dB + A 35 mA max



TV = 44 – 68 MHz  
174 – 230 MHz (III band)  
470 – 862 MHz (IV and V band)



Lmax = 28 cm  
Bmax = 2,5 cm  
Hmax = 1,5 cm



Interno adesivo a vetro - Internal adhesive on-glass - Glasklebeantenne für internen Einbau - A verre intérieur, adhésif - Para cristal a l'interior, adhesivo - Внутренняя, клеящая на стекло

Low Noise Figure (dB) difference between the SNR (signal/noise ratio) at the input and at the output of the amplifier

7137131

#### DARK TV ANTENNA

INTERNAL ON GLASS

DIGITAL TERRESTRIAL TV



**Dati Tecnici** - Technical Data - Technische Daten - Données techniques - Datos técnicos



L = 5 m  
Z = 75Ω



FAKRA - F cod. E



TV = 5V



14 ± 2 dB + A 35 mA max



TV = 44 – 68 MHz  
174 – 230 MHz (III band)  
470 – 862 MHz (IV and V band)



Lmax = 28 cm  
Bmax = 2,5 cm  
Hmax = 1,5 cm



Interno adesivo a vetro - Internal adhesive on-glass - Glasklebeantenne für internen Einbau - A verre intérieur, adhésif - Para cristal a l'interior, adhesivo - Внутренняя, клеящая на стекло

Low Noise Figure (dB) difference between the SNR (signal/noise ratio) at the input and at the output of the amplifier



Antennas for car TV systems / Antennen für Fernsehsysteme im Auto / Antennes pour systèmes TV en auto / Antenas por sistemas TV en el coche / Антенны для автомобильных ТВ систем / Antennes voor CAR TV systems

**7137125**  
**LIGHT TV ANTENNA**  
 INTERNAL ON GLASS  
 TRANSPARENT FLEXIBLE DIGITAL TERRESTRIAL TV



**7137126**  
**LIGHT TV ANTENNA**  
 INTERNAL ON GLASS  
 TRANSPARENT FLEXIBLE DIGITAL TERRESTRIAL TV



**7137132**  
  
 FAKRA F

**7137129**  
**LIGHT TV ANTENNA**  
 INTERNAL ON GLASS  
 TRANSPARENT FLEXIBLE DIGITAL TERRESTRIAL TV



**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**

**TV**  $L = 5\text{ m}$   
 $Z = 75\Omega$

**TV** F - M

**PHANTOM** TV = 5V

**dB**  $14 \pm 2\text{ dB}$  **A** 35 mA max

**MHz** TV = 44 - 68 MHz  
 174 - 230 MHz (III band)  
 470 - 862 MHz (IV and V band)

**TV**  $L_{max} = 28\text{ cm}$   
 $B_{max} = 2,5\text{ cm}$   
 $H_{max} = 1,5\text{ cm}$

**TV** Interno adesivo a vetro - Internal adhesive on-glass  
 Glasklebeantenne für internen Einbau - A verre intérieur, adhésif - Para cristal a l'interior, adhesivo - Внутренняя, клеящая на стекло

Low Noise Figure (dB) difference between the SNR (signal/noise ratio) at the input and at the output of the amplifier

**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**

**TV**  $L = 5\text{ m}$   
 $Z = 75\Omega$

**TV** F - M

**PHANTOM** TV = 12V

**dB**  $14 \pm 2\text{ dB}$  **A** 35 mA max

**MHz** TV = 44 - 68 MHz  
 174 - 230 MHz (III band)  
 470 - 862 MHz (IV and V band)

**TV**  $L_{max} = 28\text{ cm}$   
 $B_{max} = 2,5\text{ cm}$   
 $H_{max} = 1,5\text{ cm}$

**TV** Interno adesivo a vetro - Internal adhesive on-glass  
 Glasklebeantenne für internen Einbau - A verre intérieur, adhésif - Para cristal a l'interior, adhesivo - Внутренняя, клеящая на стекло

Low Noise Figure (dB) difference between the SNR (signal/noise ratio) at the input and at the output of the amplifier

**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**

**TV**  $L = 5\text{ m}$   
 $Z = 75\Omega$

**TV** FAKRA - F cod. E

**PHANTOM** TV = 5V

**dB**  $14 \pm 2\text{ dB}$  **A** 35 mA max

**MHz** TV = 44 - 68 MHz  
 174 - 230 MHz (III band)  
 470 - 862 MHz (IV and V band)

**TV**  $L_{max} = 28\text{ cm}$   
 $B_{max} = 2,5\text{ cm}$   
 $H_{max} = 1,5\text{ cm}$

**TV** Interno adesivo a vetro - Internal adhesive on-glass  
 Glasklebeantenne für internen Einbau - A verre intérieur, adhésif - Para cristal a l'interior, adhesivo - Внутренняя, клеящая на стекло

Low Noise Figure (dB) difference between the SNR (signal/noise ratio) at the input and at the output of the amplifier

### 3. DVB-S AND DVB-T RECEPTION

#### Antenne per sistemi TV in auto

Antennas for car TV systems / Antennen für Fernsehsysteme im Auto / Antennes pour systèmes TV en auto / Antenas por sistemas TV en el coche / Антенны для автомобильных ТВ систем / Antennes voor CAR TV systemens



7137122

#### LIGHT TV ANTENNA

INTERNAL ON GLASS

TRANSPARENT FLEXIBLE

ANALOGUE TV



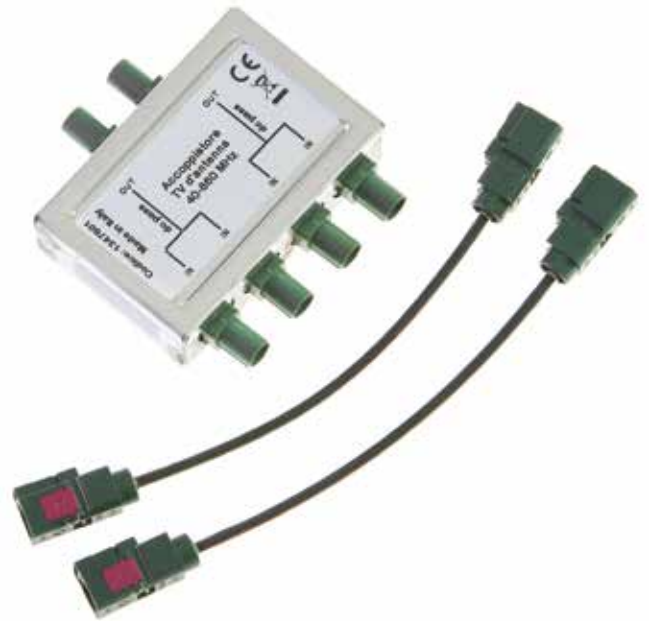
7137969

#### TV ANTENNA COUPLER

UNIVERSAL

NEW

DIGITAL TERRESTRIAL TV



#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos



$L = 3 \text{ m}$   
 $Z = 75 \Omega$



Mini Jack  
 $\varnothing 3.5 \text{ mm}$



TV = 12V



14 ± 2 dB



35 mA max



TV = 44 – 68 MHz  
174 – 230 MHz (III band)  
470 – 862 MHz (IV and V band)



$L_{\text{max}} = 28 \text{ cm}$   
 $B_{\text{max}} = 2,5 \text{ cm}$   
 $H_{\text{max}} = 1,5 \text{ cm}$



Interno adesivo a vetro - Internal adhesive on-glass  
Glasklebeantenne für internen Einbau - A verre intérieur, adhésif  
Para cristal a l'interior, adhesivo - Внутренняя, клеящая на стекло

Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
Adapaterkabel (siehe Seite 55 →)  
Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pag 55 →)

Low Noise Figure (dB)  
difference between the SNR (signal/noise ratio)  
at the input and at the output of the amplifier

#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos



FAKRA M cod. E



0 dB



TV = 44 – 68 MHz  
174 – 230 MHz (III band)  
470 – 862 MHz (IV and V band)



$L_{\text{max}} = 7 \text{ cm}$   
 $B_{\text{max}} = 4,5 \text{ cm}$   
 $H_{\text{max}} = 2 \text{ cm}$



Montaggio adesivo - Adhesive mounting  
Kleb-Einbau - Montage adhésif  
Montaje adhesivo - Клеящая основа

## 4. DAB, DAB+ RECEPTION




### Excellence in Communication





 **DAB/DAB+ e DMB sono i nuovi sistemi di trasmissione DIGITALE. Il primo permette la ricezione delle trasmissioni radiofoniche digitali di qualità superiore, mentre il secondo comprende pacchetti digitali audio-video. Le antenne per i sistemi DAB e DAB+ sono la soluzione ideale per un intrattenimento completo di alta qualità.**




 **DAB/DAB+ and DMB are the new DIGITAL transmission systems. DAB enables the reception of higher quality digital radio signals, and DAB+ includes digital audio-video packet streams. Calero antennas for DAB and DAB+ systems are the ideal solution for a complete high quality entertainment experience.**



 **DAB/DAB+ et DMB sont les nouveaux systèmes de transmission NUMÉRIQUE. Le premier assure la réception des transmissions radiophoniques numériques de qualité supérieure, alors que le second comprend des forfaits numériques audio-vidéo. Les antennes pour les systèmes DAB et DAB+ sont la solution idéale pour un divertissement complet et de haute qualité.**

 **DAB/DAB+ и DMB – это новые системы ЦИФРОВОЙ передачи. Первая обеспечивает прием цифровых радиопередач высочайшего качества, а вторая – включает в себя пакеты аудио- и видеосигналов. Антенны для систем DAB и DAB+ – это идеальное решение для полного набора развлечений высокого качества.**



 **DAB/DAB+ und DMB sind die neuen DIGITALEN Übertragungssysteme. DAB ermöglicht den qualitativ hochwertigen Empfang von digitalen Rundfunksendungen, während DAB+ auch audiovisuelle Inhalte umfasst. Die Antennen für die DAB- und DAB+ -Systeme stellen die ideale Lösung für erstklassiges Entertainment dar.**

 **Los DAB/DAB+ y DMB son los nuevos sistemas de transmisión digital. El DAB permite la recepción de las transmisiones de radio digital de calidad superior, mientras que el DAB+ ofrece una combinación de contenidos digitales de audio y vídeo. Las antenas Calero para los sistemas DAB y DAB+ son la solución ideal para un entretenimiento completo de alta calidad.**

 **DAB/DAB+ en DMB systemen verzekeren hoge kwaliteit DIGITALE ontvangst. DAB zorgt voor de perfecte ontvangst van digitale audiosignalen terwijl DAB+ zorgt voor een complete combinatie van audio en video contents. Calero's antennes voor DAB en DAB+ systemen zijn de ideale oplossing voor een perfect gebruik van digitale standaarden.**



## 4. DAB, DAB+ RECEPTION



### Antenne DAB-DAB+

DAB-DAB+ antennas / DAB-DAB+ Antennen / Antennes DAB-DAB+ / Antenas DAB-DAB+ / DAB-DAB+ антенны / DAB-DAB+ Antennes

7677931

### 16V DAB-DAB+

REAR ROOF ANTENNA

DAB-DAB+



7677932

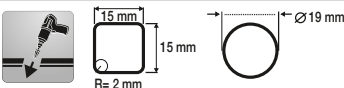
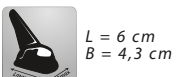
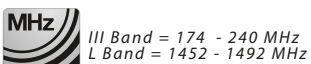
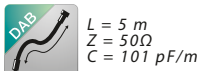
### 16V COMBI DAB-DAB+

REAR ROOF ANTENNA

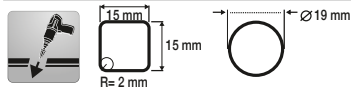
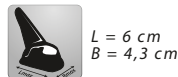
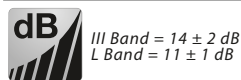
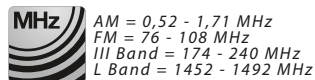
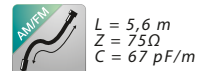
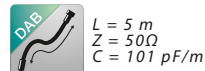
AM-FM / DAB-DAB+



#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos



#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos





7677947

**16V COMBI DAB-DAB+**

REAR ROOF ANTENNA

**NEW**

AM-FM / DAB-DAB+



7677941

**TRI DAB**

REAR ROOF ANTENNA

**NEW**

DAB-DAB+ / GPS / AM-FM



**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

L = 5 m Z = 50Ω C = 101 pF/m	L = 5,6 m Z = 75Ω C = 67 pF/m
SMB F	ISO
20 cm	60°
12V	AM/FM DAB
AM = 0,52 - 1,71 MHz FM = 76 - 108 MHz III Band = 174 - 240 MHz L Band = 1452 - 1492 MHz	III Band < 10 L Band < 2
III Band = 14 ± 2 dB L Band = 11 ± 1 dB	50 mA max
L = 6 cm B = 4,3 cm	7552090
15 mm 15 mm R=2 mm Ø19 mm	

**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

L = 5 m Z = 50Ω C = 100 pF/m	L = 5 m Z = 50Ω C = 100 pF/m
SMB F	SMB F
HC97 F	
41 cm	60°
12V	AM/FM DAB
AM = 0,52 - 1,71 MHz FM = 76 - 108 MHz III Band = 174 - 240 MHz L Band = 1452 - 1492 MHz GPS = 1575,42 ± 1,023 MHz	GPS = 2:1
III Band = 14 ± 2 dB L Band = 11 ± 1 dB GPS ≥ 27 dBi	AM/FM = 50 mA max DAB = 50 mA max GPS = 30 mA max
L = 9,8 cm B = 5 cm	7551040
15 mm 15 mm R=2 mm Ø19 mm	

## 4. DAB, DAB+ RECEPTION

### Antenne DAB-DAB+

DAB-DAB+ antennas / DAB-DAB+ Antennen / Antennes DAB-DAB+ / Antenas DAB-DAB+ / DAB-DAB+ антенны / DAB-DAB+ Antennes



7137134

### DAB-DAB+ INTERNAL RUBBER

INTERNAL ON GLASS

NEW

DAB-DAB+



7677933

### DAB-DAB+ INTERNAL

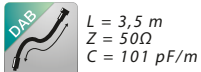
INTERNAL ON GLASS

TRANSPARENT FLEXIBLE

DAB-DAB+



#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos



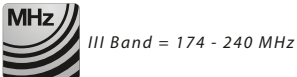
L = 3,5 m  
Z = 50Ω  
C = 101 pF/m



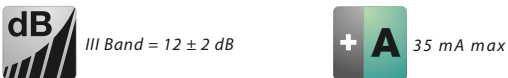
SMB F 90°



DAB = 12V

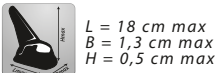


III Band = 174 - 240 MHz

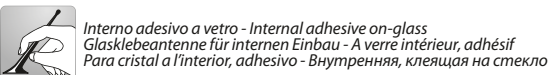


III Band = 12 ± 2 dB

+ A 35 mA max

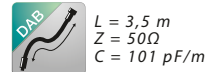


L = 18 cm max  
B = 1,3 cm max  
H = 0,5 cm max



Interno adesivo a vetro - Internal adhesive on-glass  
Glasklebeantenne für internen Einbau - A verre intérieur, adhésif  
Para cristal a l'interior, adhesivo - Внутренняя, клеящая на стекло

#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos



L = 3,5 m  
Z = 50Ω  
C = 101 pF/m



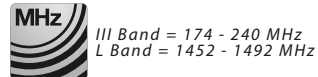
SMB F



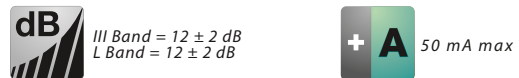
DAB = 12V



DAB = 12V

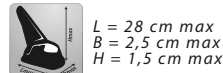


III Band = 174 - 240 MHz  
L Band = 1452 - 1492 MHz

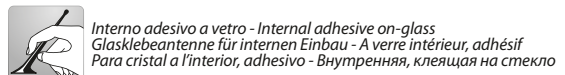


III Band = 12 ± 2 dB  
L Band = 12 ± 2 dB

+ A 50 mA max



L = 28 cm max  
B = 2,5 cm max  
H = 1,5 cm max



Interno adesivo a vetro - Internal adhesive on-glass  
Glasklebeantenne für internen Einbau - A verre intérieur, adhésif  
Para cristal a l'interior, adhesivo - Внутренняя, клеящая на стекло

7677938

**DAB-DAB+ INTERNAL**

INTERNAL ON GLASS

**NEW**

DAB-DAB+



7677939

**DAB-DAB+ INTERNAL**

INTERNAL ON GLASS

**NEW**

DAB-DAB+



**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

**DAB**  
L = 5 m  
Z = 50Ω  
C = 101 pF/m

**DAB**  
FAKRA F

**PHANTOM**  
DAB = 12V

**MHz**  
III Band = 174 - 240 MHz  
L Band = 1452 - 1492 MHz

**dB**  
III Band = 12 ± 2 dB  
L Band = 12 ± 2 dB

**+ A** 50 mA max

**mm**  
L = 28 cm max  
B = 2,5 cm max  
H = 1,5 cm max

**Adhesive**  
Interno adesivo a vetro - Internal adhesive on-glass  
Glasklebeantenne für internen Einbau - A verre intérieure, adhésif  
Para cristal a l'interior, adhesivo - Внутренняя, клеящая на стекло

**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

**DAB**  
L = 3,5 m  
Z = 50Ω  
C = 101 pF/m

**DAB**  
SMA M

**PHANTOM**  
DAB = 12V

**MHz**  
III Band = 174 - 240 MHz  
L Band = 1452 - 1492 MHz

**dB**  
III Band = 12 ± 2 dB  
L Band = 12 ± 2 dB

**+ A** 50 mA max

**mm**  
L = 28 cm max  
B = 2,5 cm max  
H = 1,5 cm max

**Adhesive**  
Interno adesivo a vetro - Internal adhesive on-glass  
Glasklebeantenne für internen Einbau - A verre intérieure, adhésif  
Para cristal a l'interior, adhesivo - Внутренняя, клеящая на стекло

## 4. DAB, DAB+ RECEPTION

### Antenne DAB-DAB+

DAB-DAB+ antennas / DAB-DAB+ Antennen / Antennes DAB-DAB+ / Antenas DAB-DAB+ / DAB-DAB+ антенны / DAB-DAB+ Antennes



7677937

### SHARK 2 COMBI-DAB

REAR ROOF ANTENNA

**NEW**

AM-FM / DAB-DAB+



7677940

### SHARK 2 TRI-DAB

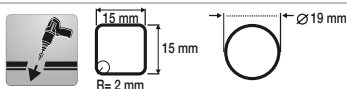
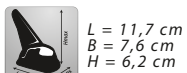
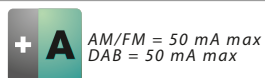
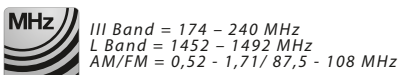
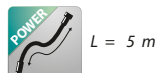
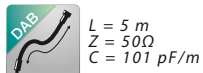
REAR ROOF ANTENNA

**NEW**

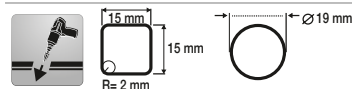
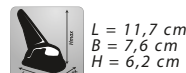
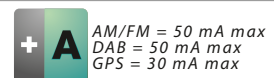
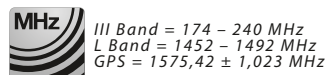
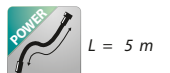
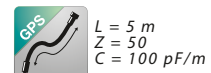
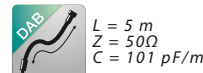
DAB-DAB+ / GPS / AM-FM



#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos



#### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos





7677942

**SHARK 2 DAB**

REAR ROOF ANTENNA

**NEW**

DAB-DAB+



7590007

**"DAB & PLAY" VW- SKODA**

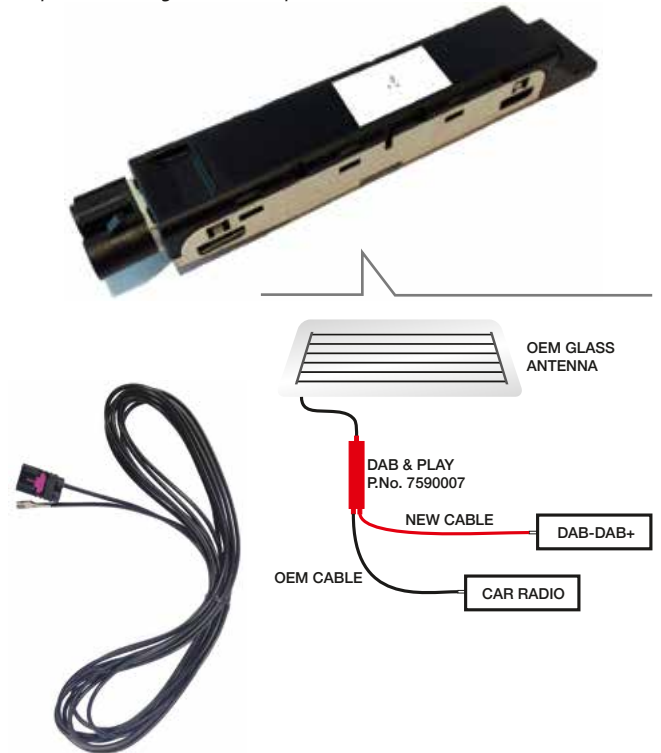
HIDDEN AMPLIFIER

**NEW**

AM-FM / DAB-DAB+

O.E. SOLUTION FOR DAB RECEPTION

It replaces the original FM2 amplifier



**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

**DAB** L = 5 m  
Z = 50Ω  
C = 101 pF/m

**POWER** L = 5 m

**DAB** SMB F

**12V** DAB = 12V

**MHz** III Band = 174 - 240 MHz  
L Band = 1452 - 1492 MHz

**dB** III Band = 14 dB

**+ A** DAB= 50 mA max

L = 11,7 cm  
B = 7,6 cm  
H = 6,2 cm

15 mm 15 mm  
R=2 mm Ø19 mm

**Dati Tecnici - Technical Data - Technische Daten**  
Données techniques - Datos técnicos

**DAB** L = 6,5 m  
Z = 50Ω  
C = 101 pF/m

**DAB** SMB F

**PHANTOM** DAB = 8,5V - 12V

**MHz** III Band = 174 - 240 MHz  
L Band = 1452 - 1492 MHz

**dB** III Band = 19 ± 2 dB  
L Band = 15 ± 2 dB

**+ A** 50 mA max

L = 10 cm max  
B = 2 cm max  
H = 1 cm max

Fissaggio a vite - sostituisce amplificatore originale  
Screw fastening - it replaces the original amplifier  
Schraubbefestigung - der Original-Verstärker wird ersetzt  
Vissage - remplace amplificateur d'origine  
Fijación por tornillo - reemplaza amplificador original  
Schroefbare bevestiging - de originele antenne versterker word vervangen  
заменяет оригинальный усилитель

## 4. DAB, DAB+ RECEPTION

### Antenne DAB-DAB+

DAB-DAB+ antennas / DAB-DAB+ Antennen / Antennes DAB-DAB+ / Antenas DAB-DAB+ / DAB-DAB+ антенны / DAB-DAB+ Antennes



7562005

## AM/FM DAB-DAB+ ACTIVE SPLITTER

UNIVERSAL

NEW

AM-FM / DAB-DAB+



### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos



FAKRA M



DAB = 12V



III Band = 174 - 240 MHz  
L Band = 1452 - 1492 MHz  
AM/FM = 0,52 - 1,71 / 87,5 - 108 MHz



III Band =  $18 \pm 2$  dB  
L Band =  $12 \pm 2$  dB



AM/FM = 50 mA max  
DAB = 50 mA max



L = 6 cm max  
B = 3,5 cm max  
H = 3 cm max



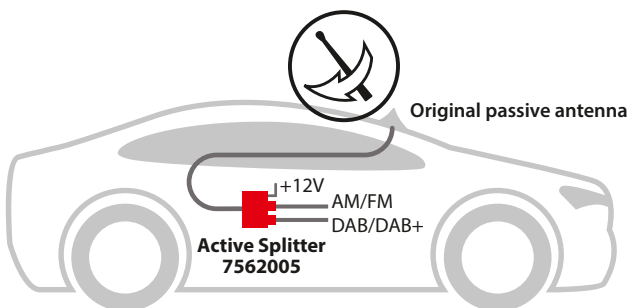
Montaggio adesivo - Adhesive mounting  
Kleb-Einbau - Montage adhésif  
Montaje adhesivo - Клеящая основа

### Schemes for different installation modes

#### Passive Front roof antenna

Important:

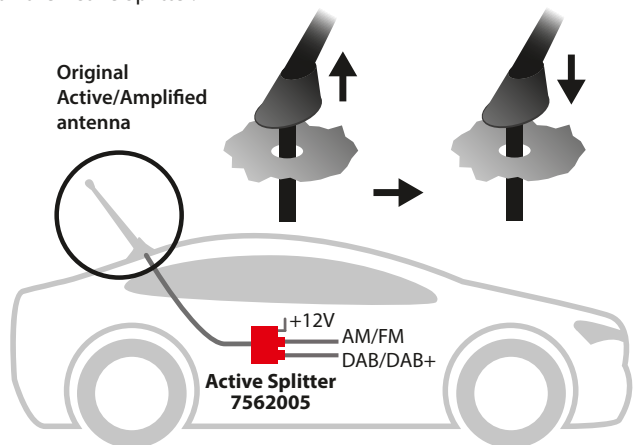
1. Remove the original rod.
2. Install the AM/FM-DAB rod (Calero P.no 7551045).
3. Install the Active Splitter.



#### O.E.M Active Roof antenna

Important:

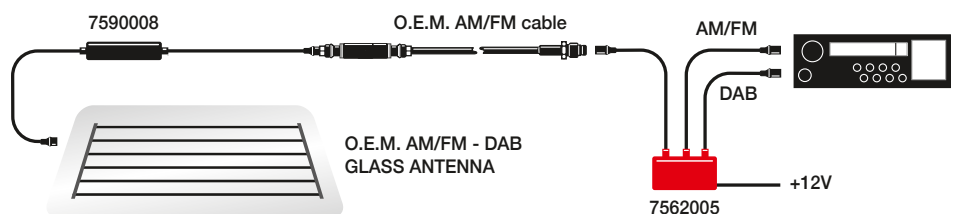
1. Remove the original Active/amplified antenna
2. Install a passive antenna (Calero p.no 7677909)
3. Install the Active Splitter.



#### VW Group O.E.M "DIVERSITY" GLASS ANTENNA

Important:

1. Remove the originale Fm2 amplifier.
2. Install The "bypass" (Calero P.no 7590008).
3. Install the active splitter



# 5. AM-FM RECEPTION





## Excellence in Communication




 La qualità delle antenne e dei cavi Calearo crea un sistema di ricezione tale da ottimizzare l'ascolto dell'autoradio sfruttando tutte le caratteristiche del Vostro apparecchio. Dall'installazione in auto, all'allestimento di cabine per macchine agricole o microcar, Calearo garantisce estrema funzionalità, affidabilità e durata nel tempo dei materiali. Anche la più semplice antenna Calearo Vi assicura un'eccellente qualità d'ascolto!

 The quality of Calearo antennas and cables is such as to create a reception system that will optimize the sound of your car radio by making the most of all its features. Fitted to a saloon car or a microcar, or the cab of an agricultural vehicle, a Calearo antenna guarantees total functional efficiency, reliability and durability of the materials used in manufacture. Even with the simplest Calearo antenna system, your in-car listening pleasure is assured!

 Die Qualität von Calearo Antennen und Kabeln bilden ein Empfangssystem, welches das Maximum der Leistungsfähigkeit Ihres Autoradios wiedergibt. Calearo ist der Garant, wenn es um Funktionalität, Zuverlässigkeit und Haltbarkeit des Materials bei allen Applikationen für Kraftfahrzeuge, Nutzfahrzeuge oder Kleinstwagen geht. ...sogar die einfachste Calearo Antenne ermöglicht sehr gute Empfangsqualität.

 La qualité des antennes et des câbles Calearo permet de créer un système de réception qui optimise l'écoute de l'autoradio en utilisant toutes les caractéristiques de votre appareil. De l'installation dans le véhicule à l'aménagement de cabines pour tracteurs ou voitures sans permis, Calearo garantit des caractéristiques optimales de fonctionnalité, fiabilité et durée du matériel. Même l'antenne la plus simple installée par Calearo vous assure une excellente écoute!

 La calidad de las antenas y de los cables de Calearo crea un sistema de recepción que mejora el audio aprovechando la mayoría de las características de la radio del automóvil. Calearo garantiza funcionalidad, fiabilidad y duración de los materiales en todas las aplicaciones, desde el montaje en automóviles al equipamiento de

### 46 - Antenne da tetto posteriori

Rear roof antennas / Heckeinbau-Dachantennen  
Antennes de toit arrière / Antenas de techo posteriores  
Антенны на заднюю часть крыши / Dakantennes achter

### 49 - Antenne da tetto anteriori

Front roof antennas / Fronteinbau-Dachantennen  
Antennes de toit avant / Antenas de techo anteriores  
Антенны на переднюю часть крыши / Dakantennes voor

### 51 - Antenne da montante

Pillar antennas / Holmantennen / Antennes de montant  
Antenas laterales / Антенны на водосток / Stijlantennes

### 51 - Antenna da parafango ad asta telescopica

Wing antenna with telescope / Seitenantenne mit Teleskop  
Antenne d'aile avec brin telescopique  
Antena de guardabarros con varilla telescopica  
Телескопическа антенна/ Telescopiche inzinkantenne

### 52 - Antenne elettroniche da vetro interne

On-glass electronic antennas / Elektronische Scheibenantennen  
Antennes électroniques à verre / Antenas electrónicas de vidrio  
Внутренние антенны на ветровое стекло  
Versterkte raamplakantennes


### 53 - Antenne in gomma

Rubber antennas / Gummi-Antennen  
Antennes en caoutchouc / Antenas de goma  
Резиновые антенны / Rubber antennas

### 54 - Antenna da parafango elettriche automatiche

Wing electric antenna / Seitenmotorantenne  
Antenne d'aile automatique / Antena de guardabarros electrica  
Автоматическа антенна/ Volautomatische elektrische antenne

cabinas para máquinas agrícolas e incluso de microcoches. ¡Hasta la más sencilla de las antenas Calearo le permite escuchar bien!

 Качество антенн и кабелей Calearo создает такую систему приема, которая оптимизирует прослушивание музыкального центра, используя все характеристики вашего оборудования. От установки в машине до оборудования кабин сельскохозяйственных машин или микрокаров, компания Calearo гарантирует чрезвычайную функциональность, надежность

и долговечность материалов. Даже самая простая устанавливаемая антенна Calearo гарантирует вам прекрасное прослушивание!

 De kwaliteit van Calearo's antennes en kabels zorgt voor een ontvangst die het luisteren naar uw radio optimaliseert en volledig van uw autoradio-opties gebruik maakt. Calearo garandeert functionaliteit, betrouwbaarheid, duurzaamheid van materialen in elke toepassing, van auto's tot bouwmachines, landbouwvoertuigen en zelfs brommobielen. Zelfs de simpelste Calearo antenne verschaft u luisterplezier!

# 5. AM-FM RECEPTION

## Antenne da tetto posteriori

Rear roof antennas / Heckeinbau-Dachantennen / Antennes de toit arrière / Antenas de techo posteriores / Антенны на заднюю часть крыши / Dakantennes achter



7727050

### SHARK 2 RADIO EVOLUTION

REAR ROOF ANTENNA

UNIVERSAL



7677900

REAR ROOF ANTENNA

UNIVERSAL



7677906

REAR ROOF ANTENNA

UNIVERSAL



#### Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos



HC97 F

\*



$L_{max} = 11,7 \text{ cm}$   
 $B_{max} = 7,6 \text{ cm}$   
 $H_{max} = 6,2 \text{ cm}$



15 mm  
 15 mm  
 $R = 2 \text{ mm}$   
 $\varnothing 19 \text{ mm}$

\* Cavi adattatori (vedi pag 55 →)  
 Adapter cables (see pag 55 →)  
 Adapterkabel (siehe Seite 55 →)  
 Câbles adaptateurs (voir page 55 →)  
 Cables adaptadores (ver pag 55 →)



#### Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos



$L = 5,6 \text{ m}$   
 $Z = 75\Omega$   
 $C = 67 \text{ pF/m}$

 $L = 40 \text{ cm}$  $76^\circ$ 

ISO



$L_{max} = 6 \text{ cm}$   
 $B_{max} = 4,3 \text{ cm}$



15 mm  
 15 mm  
 $R = 2 \text{ mm}$   
 $\varnothing 19 \text{ mm}$



7551019/7551037



#### Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos



$L = 5,6 \text{ m}$   
 $Z = 75\Omega$   
 $C = 67 \text{ pF/m}$

 $L = 40 \text{ cm}$  $76^\circ$ 

DIN



$L_{max} = 6 \text{ cm}$   
 $B_{max} = 4,3 \text{ cm}$



15 mm  
 15 mm  
 $R = 2 \text{ mm}$   
 $\varnothing 19 \text{ mm}$



7551019/7551037





Antenne da tetto posteriori

Rear roof antennas / Heckinbau-Dachantennen / Antennes de toit arrière / Antenas de techo posteriores / Антенны на заднюю часть крыши / Dakantennes achter

7677908

**REAR ROOF ANTENNA**

**UNIVERSAL**



7677901

**REAR ROOF ANTENNA**

**UNIVERSAL**



7677909

**REAR ROOF ANTENNA**

**UNIVERSAL**

**NEW**

**O.E. SUPPLY**



DAB/DAB+ READY

7677944

**REAR ROOF ANTENNA**

**UNIVERSAL**

**NEW**



**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**

**AM/FM**  $L = 5,6\text{ m}$   
 $Z = 75\Omega$   
 $C = 67\text{ pF/m}$

$L = 40\text{ cm}$   $45^\circ$

**AM/FM** **DIN**

$L_{\text{max}} = 6\text{ cm}$   
 $B_{\text{max}} = 4,3\text{ cm}$

$15\text{ mm}$   $15\text{ mm}$   $\varnothing 19\text{ mm}$   
 $R = 2\text{ mm}$

$7551019/7551037$



**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**

**AM/FM**  $L = 5,6\text{ m}$   
 $Z = 75\Omega$   
 $C = 67\text{ pF/m}$  **12V**

$L = 40\text{ cm}$   $60^\circ$

**AM/FM** **ISO**

$L_{\text{max}} = 6\text{ cm}$   
 $B_{\text{max}} = 4,3\text{ cm}$

$15\text{ mm}$   $15\text{ mm}$   $\varnothing 19\text{ mm}$   
 $R = 2\text{ mm}$

$7551019/7551037$



**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**

DAB/DAB+ ready in combination with active splitter: 7562005 (see pag 44)

$L = 20\text{ cm}$   $60^\circ$

**AM/FM** **HC97F**

Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
Adaptorkabel (siehe Seite 55 →)  
Cables adaptateurs (voir page 55 →)

$L_{\text{max}} = 6\text{ cm}$   
 $B_{\text{max}} = 4,3\text{ cm}$

$15\text{ mm}$   $15\text{ mm}$   $\varnothing 19\text{ mm}$   
 $R = 2\text{ mm}$

$7552090$



**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**

**AM/FM**  $L = 5,6\text{ m}$   
 $Z = 75\Omega$   
 $C = 67\text{ pF/m}$  **PHANTOM**

$L = 40\text{ cm}$   $60^\circ$

**AM/FM** **ISO**

$L_{\text{max}} = 6\text{ cm}$   
 $B_{\text{max}} = 4,3\text{ cm}$

$15\text{ mm}$   $15\text{ mm}$   $\varnothing 19\text{ mm}$   
 $R = 2\text{ mm}$

$7551019/7551037$



# 5. AM-FM RECEPTION

## Antenne da tetto posteriori

Rear roof antennas / Heckeinbau-Dachantennen / Antennes de toit arrière / Antenas de techo posteriores / Антенны на заднюю часть крыши / Dakantennes achter



7677907

**REAR ROOF ANTENNA**  
**UNIVERSAL**

7677918

**REAR ROOF ANTENNA**  
**UNIVERSAL**

**O.E. SUPPLY**

7677924

**REAR ROOF ANTENNA**  
**UNIVERSAL**

7677943

**REAR ROOF ANTENNA**  
**UNIVERSAL**

**NEW**

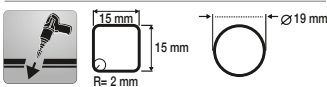
**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**

**AM/FM**  
L = 5,6 m  
Z = 75Ω  
C = 67 pF/m

L = 40 cm 60°

**AM/FM**  
DIN

Lmax = 6 cm  
Bmax = 4,3 cm



7551019/7551037



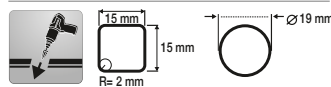
**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**

**PHANTOM**

L = 40 cm 60°

**AM/FM**  
HC97F  
Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
Adapterkabel (siehe Seite 55 →)  
Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pág 55 →)

Lmax = 6 cm  
Bmax = 4,3 cm



7551019/7551037



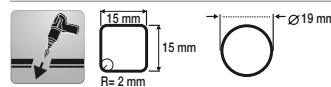
**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**

**12V**

L = 40 cm 60°

**AM/FM**  
HC97F  
Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
Adapterkabel (siehe Seite 55 →)  
Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pág 55 →)

Lmax = 6 cm  
Bmax = 4,3 cm



7551019/7551037



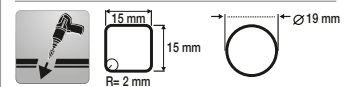
**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**

**PHANTOM**

L = 40 cm 60°

**AM/FM**  
HC97F  
Cavi adattatori (vedi pag 55 →)  
Adapter cables (see pag 55 →)  
Adapterkabel (siehe Seite 55 →)  
Câbles adaptateurs (voir page 55 →)  
Cables adaptadores (ver pág 55 →)

Lmax = 6 cm  
Bmax = 4,3 cm



7551019/7551037




**Antenne da tetto anteriori**

Front roof antennas / Fronteinbau-Dachantennen / Antennes de toit avant / Antenas de techo anteriores / Антенны на переднюю часть крыши / Dakantennes voor

7657009

**ROOF ANTENNA**


**FORD / UNIVERSAL**



7657015

**ROOF ANTENNA**


**FIAT GROUP →'01  
ALFA-LANCIA/Y →'01**



7657019

**ROOF ANTENNA**

**FIAT Commercial Vehicles  
PEUGEOT / UNIVERSAL**



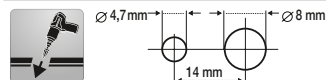
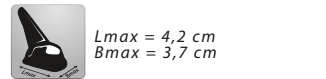
7657021

**ROOF ANTENNA**

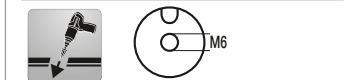
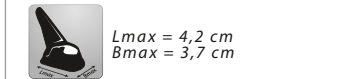
**FIAT GROUP →'02**



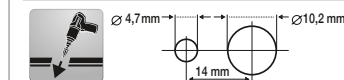
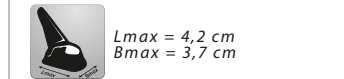
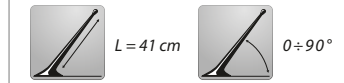
**Dati Tecnici - Technical Data -  
Technische Daten - Données  
techniques - Datos técnicos**



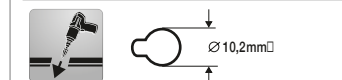
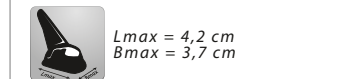
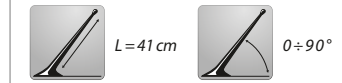
**Dati Tecnici - Technical Data -  
Technische Daten - Données  
techniques - Datos técnicos**



**Dati Tecnici - Technical Data -  
Technische Daten - Données  
techniques - Datos técnicos**



**Dati Tecnici - Technical Data -  
Technische Daten - Données  
techniques - Datos técnicos**



## 5. AM-FM RECEPTION

### Antenne da tetto anteriori

Front roof antennas / Fronteinbau-Dachantennen / Antennes de toit avant / Antenas de techo anteriores / Антенны на переднюю часть крыши / Dakantennes voor



7657008	7657016	7651006	7657020
<p><b>ROOF ANTENNA</b> <b>UNIVERSAL</b></p>	<p><b>ROOF ANTENNA</b> <b>UNIVERSAL</b></p>	<p><b>ROOF ANTENNA</b> <b>UNIVERSAL</b></p>	<p><b>ROOF ANTENNA</b> <b>FIAT GROUP '02 --&gt;</b></p>
			
<p><b>Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos</b></p>	<p><b>Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos</b></p>	<p><b>Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos</b></p>	<p><b>Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos</b></p>
 <p>L = 2,45 m Z = 130Ω C = 36 pF/m</p>	 <p>L = 2,70 m Z = 130Ω C = 36 pF/m</p>	 <p>L = 2,70 m Z = 130Ω C = 36 pF/m</p>	 <p>L = 2,70 m Z = 130Ω C = 36 pF/m</p>
 <p>L = 41 cm</p>  <p>0÷90°</p>	 <p>L = 41 cm</p>  <p>0÷90°</p>	 <p>L = 84 cm</p>  <p>0÷90°</p>	 <p>L = 41 cm</p>  <p>0÷90°</p>
 <p>L<sub>max</sub> = 4,2 cm B<sub>max</sub> = 3,7 cm</p>	 <p>L<sub>max</sub> = 4,2 cm B<sub>max</sub> = 3,7 cm</p>	 <p>L<sub>max</sub> = 4,2 cm B<sub>max</sub> = 3,7 cm</p>	 <p>L<sub>max</sub> = 4,2 cm B<sub>max</sub> = 3,7 cm</p>
 <p>∅ 4,7mm</p>  <p>∅ 8 mm</p> <p>14 mm</p>	 <p>∅ 4,7mm</p>  <p>∅ 10,2 mm</p> <p>14 mm</p>	 <p>∅ 4,7mm</p>  <p>∅ 8 mm</p> <p>14 mm</p>	 <p>∅ 10,2mm</p>
 <p>7552012</p>	 <p>7552012</p>	 <p>7552017</p>	 <p>7552012</p>
			



Antenne da montante e da parafango

Pillar and wing antennas / Holm- und Seitenantenne / Antennes de montant et d'aile / Antenas laterales y de guardabarros / Антенны на водосток / Stijlantennes

7627008

**PILLAR ANTENNA**

**MITSUBISHI Pajero / NISSAN Patrol / UNIVERSAL**



7694003

**PILLAR ANTENNA**

**FIAT Panda SEAT Marbella**



7677153

**TELESCOPE ANTENNA**

**UNIVERSAL**

**NEW**



**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**



$L = 1,4 \text{ m}$   
 $Z = 130\Omega$   
 $C = 36 \text{ pF/m}$



$L = 144,5 \text{ cm}$



$L_{max} = 5,3 \text{ cm}$   
 $B_{max} = 2 \text{ cm}$



**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**



$L = 1,4 \text{ m}$   
 $Z = 150\Omega$   
 $C = 50 \text{ pF/m}$



$L = 71 \text{ cm}$



**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**



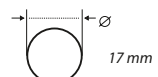
$L = 1,5 \text{ m}$   
 $Z = 130\Omega$   
 $C = 36 \text{ pF/m}$



$L = 90 \text{ cm}$



$0 \div 45^\circ$



## 5. AM-FM RECEPTION

Antenne elettroniche da vetro interne

On-glass electronic antennas / Elektronische Scheibenantennen / Antennes électroniques à verre / Antenas electrónicas de vidrio / Внутренние антенны на ветровое стекло / Versterkte raamplakantennes



CAR



TAXI



TRUCK



EXCAVATOR



BUS



CAMPER



MINI CAR

7697015

INTERNAL ON GLASS

UNIVERSAL



**Doppia amplificazione** / Double amplification / Doppel Verstärkung / Double amplification / Doble amplificación / Усиление двойного диапазона / duppel amplificatie



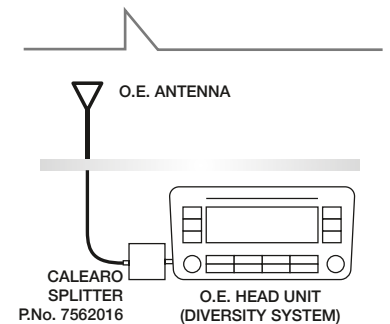
7562016

SPLITTER AM-FM / FM

VOLKSWAGEN GROUP

O.E. SUPPLY

AM-FM / FM



**Dati Tecnici** - Technical Data - Technische Daten  
Données techniques - Datos técnicos



$L = 2,4 \text{ m}$   
 $Z = 150 \Omega$   
 $C = 85 \text{ pF/m}$



12V



$L = 30 \text{ cm}$



$L_{\text{max}} = 6,4 \text{ cm}$   
 $B_{\text{max}} = 1,6 \text{ cm}$



Interno adesivo a vetro - Internal adhesive on-glass  
Glasklebeantenne für internen Einbau - A verre intérieur, adhésif  
Para cristal a l'interior, adhesivo - Внутренняя, клеящая на стекло

**Dati Tecnici** - Technical Data - Technische Daten  
Données techniques - Datos técnicos



ANT = FAKRA M



FAKRA F 90°



FAKRA F 90°



AM/FM = 12V



AM/FM = 0dB



AM/FM = 15mA



AM/FM = 0,52-1,71 / 88,0-108,0 MHz  
FM = 88,0-108,0 MHz



$L_{\text{max}} = 6,5 \text{ cm}$   
 $B_{\text{max}} = 3,4 \text{ cm}$   
 $H_{\text{max}} = 2,7 \text{ cm}$



Montaggio adesivo - Adhesive mounting  
Kleb-Einbau - Montage adhésif  
Montaje adhesivo - Клеящая основа

7667001

**UNIVERSAL**



**Asta Flessibile**  
Flexible Rod

7667002

**UNIVERSAL**



**Asta Flessibile**  
Flexible Rod

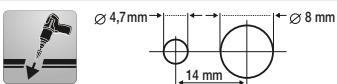
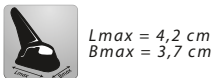
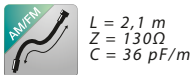
7667003

**UNIVERSAL**

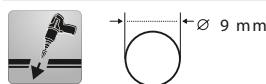
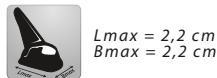
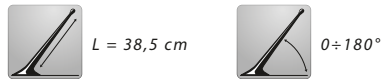
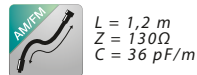


**Asta Flessibile**  
Flexible Rod

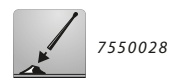
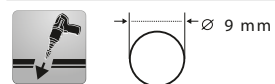
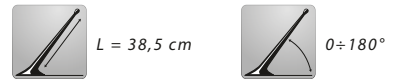
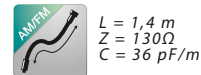
**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**



**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**



**Dati Tecnici - Technical Data - Technische Daten - Données techniques - Datos técnicos**



## 5. AM-FM RECEPTION



### Antenna da parafango elettrica automatica

Wing electric antenna / Seitenmotorantenne / Antenne d'aile automatique / Antena de guardabarros eléctrica / Автоматическая антенна / Volautomatische elektrische antenne

7677150



7677151



### Lista di compatibilità · Compatibility list · Einbauliste Table de montage · Lista para adaptación · список для адаптаци · Lijst aanpasbaarheid

Alfa Romeo 75 - 164 - Alfa Romeo GTV - Spider dal '90  
Audi 80 - Audi 100/200 → '90 - Audi Cabrio  
BMW serie 3 (E30 - E36) - BMW serie 5 (E28 - E34)  
Daewoo Leganza - Lanos - Nubira berlina - Espero  
Daihatsu Applause  
Fiat Barchetta  
Ford Scorpio - Sierra - Ford Probe - Maverick - Escort cabrio  
Honda Accord 2 volumi - Honda Concerto  
Hyundai Lantra - Hyundai Sonata - Hyundai Accent - Coupé  
Kia Sephia - Sportage  
Isuzu Tropper  
Lada Samara  
Lancia Kappa - Lancia Prisma - Lancia Tema  
Mazda 121 - 323 - 626 - 929 - MX5 - RX7 - Xedos 6 - Xedos 9 - MPV  
Mitsubishi Pajero - Mitsubishi Eclipse  
Nissan Maxima - Nissan Primera  
Opel Astra cabrio  
Peugeot 306 - 405 - 505 - 605  
Porsche 911/Carrera - Porsche 924/944 - Porsche 928  
Land Rover - Range Rover - Rover 214/216 - 416 - Serie 8  
Saab 900 Cabrio '94 → - 9-3 / Saab 9000 - 9-5  
Seat Ibiza → 8/'93 - Malaga  
Skoda Favorit  
Ssangyong MJ  
Subaru Impreza - Legacy  
Toyota Camry - Carina - Celica - Land Cruiser '85 ← → '89 - MR2  
Volkswagen Derby - Golf 1 e 2 - Jetta - Passat → '88 - Polo → '94  
Volvo 440 - 460 - 740 - 760 - 780 - 850 - 940 - C70

### Dati Tecnici - Technical Data - Technische Daten Données techniques - Datos técnicos



CAVO = 50Ω  
L = 1,2 m  
Z = 150Ω  
C = 80 pF/m



L = 79 cm



Lmax = 5,6 cm  
Bmax = 8,5 cm  
Hmax = 17 cm



18 mm



7557008  
7557009



### Kit personalizzazione · Customization kits · Kundenspezifische Kits · Kits de personnalisation · Kits para personalización · индивидуальный комплект · kit personalisatie

7541009	Mercedes W124 200/250E/CE		43°
7541015	Mercedes W201 LANCIA DEDRA		26°
7542051	Snodo sferico - Ball joint - Kugelgelenk - Joint sphérique		



## 6. ACCESSORIES



### *Excellence in Communication*

- 56 - Adattatori AM/FM ai cavi originali**  
AM/FM adaptors for original cables  
AM/FM Adapter für originalen Kabel Adapter  
AM/FM pour câbles originaux  
Adaptadores AM/FM para cables originales  
AM/FM адаптеры для оригинального кабеля  
AM/FM adapters voor originele antennekabels
- 58 - Cavi adattatori DAB**  
DAB Adapter cables  
DAB Adapterkabel  
Câbles adaptateurs DAB  
Cables adaptadores DAB  
DAB адаптеры  
DAB adapter kabels
- 59 - Cavi adattatori GSM - WIFI - TV**  
GSM - WIFI - TV Adapter cables  
GSM - WIFI - TV Adapterkabel  
Câbles adaptateurs GSM - WIFI - TV  
Cables adaptadores GSM - WIFI - TV  
GSM - WIFI - TV адаптеры  
GSM - WIFI - TV adapter kabels
- 60 - Cavi adattatori GPS**  
GPS Adapter cables  
GPS Adapterkabel  
Câbles adaptateurs GPS  
Cables adaptadores GPS  
GPS адаптеры  
GPS adapter kabels
- 61 - Cavi prolunga AM/FM-GPS-GSM-TV-WIFI**  
AM/FM-GPS-GSM-TV-WIFI Extension cables  
AM/FM-GPS-GSM-TV-WIFI Verlängerungskabel  
Câbles de rallonge AM/FM-GPS-GSM-TV-WIFI  
Cables prolongadores AM/FM-GPS-GSM-TV- WIFI  
AM/FM-GPS-GSM-TV-WIFI Удлинитель  
AM/FM-GPS-GSM-TV-WIFI verlengkabels
- 62 - Connettori AM/FM-GSM-GPS-VHF/UHF**  
AM/FM-GSM-GPS-VHF/UHF Connectors  
AM/FM-GSM-GPS-VHF/UHF Steckverbinder  
Connecteurs AM/FM-GSM-GPS-VHF/UHF  
Conectores AM/FM-GSM-GPS-VHF/UHF  
AM/FM-GSM-GPS-VHF/UHF коннекторы  
AM/FM-GSM-GPS-VHF/UHF connectors

## 6. ACCESSORIES

### Adattatori AM/FM ai cavi originali

AM/FM adaptors for original cables / AM/FM Adaptern für originalen Kabel / Adaptateurs AM/FM pour câbles originaux / Adaptadores AM/FM para cables originales / AM/FM адаптеры для оригинального кабеля / AM/FM adapters voor originele antennekabels

7581065

AUDI →'94  
OPEL →'01



HC97 M/BP M



12 cm

7581067

AUDI A3/A4 AVANT/A6 AVANT →'01  
VOLVO V40 / BMW MINI →'05



HC97 M/RK M



12 cm

7581066

FIAT GROUP



HC97 M/HC M



12 cm

7581130

FIAT GROUP / PEUGEOT- CITROEN '10 →  
FORD KUGA → '12 / FORD KUGA '12 →  
FORD C-MAX, FOCUS '10 →

HC97 M/FAKRA F  
cod.B

120 cm

7581097

RENAULT CLIO 2 - CLIO 3 - MEGANE 2  
SCENIC 2 MODUS



HC97 M/HC97 F



117 cm

7581131

RENAULT '09 →

HC97 M/FAKRA M  
cod.B

120 cm

7581100

JAPANESE AND KOREAN CARS



HC97 M/DIN



15 cm

7582032

OPEL →'10



HC97 M/OPEL



20 cm

7581112

BMW SERIE 1 - BMW MINI 2005 →  
VW 2006 →

HC97 M  
FAKRA M cod. A e B

15 cm

7581132

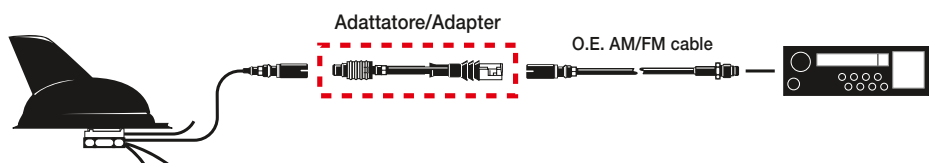
NISSAN



HC97 M/GT13 F



20 cm



**Adattatori AM/FM ai cavi originali**

AM/FM adaptors for original cables / AM/FM Adapter für originalen Kabel / Adaptateurs AM/FM pour câbles originaux / Adaptadores AM/FM para cables originales / AM/FM адаптеры для оригинального кабеля / AM/FM adapters voor originele antennekabels

**7581120**  
**PHANTOM FEEDING ADAPTER**



 HC97 M / HC97 F  25 cm

**7581121**  
**PHANTOM FEEDING ADAPTER**



 FAKRA M Universal / ISO  25 cm

**7581107**  
**PHANTOM FEEDING ADAPTER**  
**AUDI 2004 → / VW GOLF - TOURAN**



 FAKRA M Universal / ISO  25 cm

**7581059**  
**PHANTOM FEEDING ADAPTER**  
**AUDI - VW - SEAT - SKODA - FIAT**



 DIN/ISO  25 cm

**7581135**  
**ANTENNA ADAPTER WITH DOUBLE FAKRA AND POWER**  
**AUDI 2008 → / VW 2008 →**



 Double FAKRA M cod.Z DIN M  40 cm

**7581136**  
**ANTENNA ADAPTER WITH DOUBLE FAKRA AND POWER**  
**AUDI 2008 → / VW 2008 →**

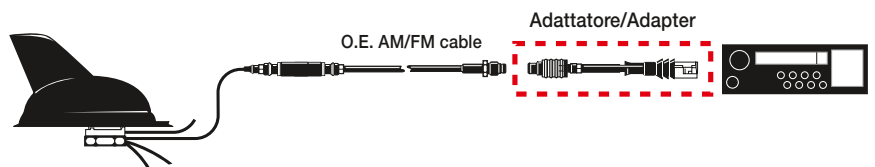


 Double FAKRA M cod.Z ISO  40 cm

**7581101**  
**BMW - MERCEDES - PEUGEOT - OPEL**



 FAKRA M Black/ISO  12 cm



# 6. ACCESSORIES

## Cavi adattatori DAB

DAB Adapter cables / DAB Adapterkabel / Câbles adaptateurs DAB / Cables adaptadores DAB / DAB адаптеры / DAB adapter kabels

**7132078**  
**ADAPTER CABLE**

ISO F / FAKRA F 50 cm

**7132079**  
**ADAPTER CABLE**

DIN M / FAKRA F 50 cm

**7132080**  
**ADAPTER CABLE**

ISO M / FAKRA F 50 cm

**7132081**  
**ADAPTER CABLE**

FAKRA F / FAKRA M 50 cm

**7132082**  
**ADAPTER CABLE**

FAKRA F / SMB F 90° 50 cm

**7132083**  
**ADAPTER CABLE**

FAKRA F / SMA M 50 cm

**7132084**  
**ADAPTER CABLE**

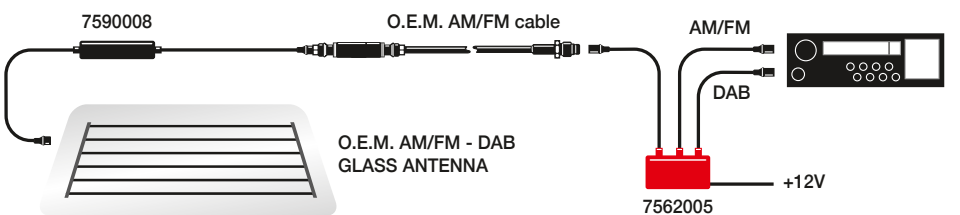
FAKRA F / FAKRA F 50 cm

**7132085**  
**ADAPTER CABLE**

DIN F / FAKRA F 50 cm

**7590008**  
**PASSIVE BYPASS FM/DAB+ - VW/SKODA**

Single FAKRA M cod.Z





**Cavi adattatori GSM / WIFI / TV**

GSM - WIFI - TV Adapter cables / GSM - WIFI - TV Adapterkabel / Câbles adaptateurs GSM - WIFI - TV / Cables adaptadores GSM - WIFI - TV / GSM - WIFI - TB адаптеры / GSM - WIFI - TV adapter kabels

**7127220**  
**ADAPTER**



 *FME M/MCX M*  20 cm

**7131041**  
**ADAPTER**



 *FME M/MMCX M 90°*  15 cm

**7581122**  
**ADAPTER**




 *FAKRA F cod.D/FME M*  20 cm



**7581105**  
**ADAPTER**



 *FME M/Fakra F 90°*  20 cm

**7581126**  
**FIAT GROUP**



 *FME M/GTS F*  20 cm

**7581067**  
**AUDI A6 only with ref. 7581076**



 *HC97 M/RK M*  20 cm

**7131026**  
**TV ADAPTER**



 *Jack F/IEC 9,5*  24 cm

**7132020**  
**TV ADAPTER**



 *Jack F/F M*  22 cm

**7132074**  
**TV ADAPTER**

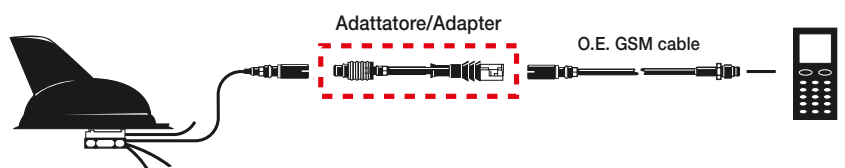


 *Jack F/FAKRA F cod. E*  20 cm

**7131045**  
**WIFI ADAPTER**



 *SMA F/SMA M Reverse Polarity*  15 cm



## 6. ACCESSORIES

### Cavi adattatori GPS

GPS Adapter cables / GPS Adapterkabel / Câbles adaptateurs GPS / Cables adaptadores GPS / GPS адаптеры / GPS adapter kabels

7581077

ALPINE-BLAUPUNKT-CLARION  
GRUNDIG-PHILIPS



SMB M/GT5 F



12 cm

7581079

BECKER



SMB M/AK 72



12 cm

7181113

PIONEER



SMB M/GT16



12 cm

7581109

TomTom GO / GO 300 / GO 500 / GO 700



SMB M/SMA M



12 cm

7581106

Garmin iQue/nüvi/Quest/Street Pilot series  
Navman / VDO MS 2000 Tom Tom 510-710-  
910-ONE / BLAUPUNKT "LUCCA"



SMB M/MCX M



12 cm

7132021

ADAPTER



SMA F/MMCX M 90°



16 cm

7581123

ADAPTER



SMB M/FAKRA F cod. C



20 cm

7581118

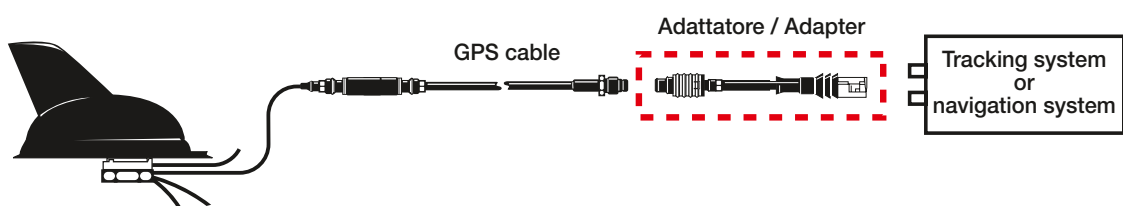
ADAPTER



SMB M/SMB F 90°



15 cm




**Cavi prolunga AM/FM-GPS-GSM-TV-WIFI**

AM/FM-GPS-GSM-TV-WIFI Extension cables / AM/FM-GPS-GSM-TV-WIFI Verlängerungskabel / Câbles de rallonge AM/FM-GPS-GSM-TV-WIFI  
Cables prolongadores AM/FM-GPS-GSM-TV-WIFI / AM/FM-GPS-GSM-TV-WIFI Удлинитель / AM/FM-GPS-GSM-TV-WIFI verlengkabels

7581037 L = 0,5 m  
7581040 L = 3,0 m  
7581042 L = 4,5 m

**AM/FM EXTENSION CABLE**

ISO/DIN

7581002 L = 1,5 m  
7581004 L = 4,5 m

**AM/FM EXTENSION CABLE**




BP F/DIN

7581020 L = 0,5 m  
7581023 L = 1,0 m  
7581029 L = 3,0 m  
7581034 L = 4,5 m

**AM/FM EXTENSION CABLE**




DIN/DIN

7581062

**AM/FM EXTENSION CABLE**




HC97 M/ISO



5,6 m

7581119

**AM/FM EXTENSION CABLE**




HC97 M/DIN



5,6 m

7581139

**AM/FM EXTENSION CABLE**




HC97 M /  
FAKRA F cod.Z



5,6 m

7581094 L = 1 m  
7581095 L = 3 m  
7581096 L = 5 m

**GPS EXTENSION CABLE**




SMB F/SMB M

7581046 L = 1,5 m  
7581045 L = 5,0 m

**GSM EXTENSION CABLE RG58 type**




FME F/FME F

7131047

**WIFI LOW LOSS EXTENSION CABLE**




SMA F/SMA M  
Reverse Polarity



5 m

7131046

**WIFI EXTENSION CABLE**




SMA F/SMA M  
Reverse Polarity



5 m

## 6. ACCESSORIES

### Connettori AM/FM-GSM-GPS-VHF/UHF

AM/FM-GSM-GPS-VHF/UHF Connectors / AM/FM-GSM-GPS-VHF/UHF Steckverbinder / Connecteurs AM/FM-GSM-GPS-VHF/UHF / Conectores AM/FM-GSM-GPS-VHF/UHF / AM/FM-GSM-GPS-VHF/UHF коннекторы / AM/FM-GSM-GPS-VHF/UHF connectors

7131003



FME M / BNC

7131004

(RG58)



FME F

7131005



FME M / MINI UHF

7131006



FME M / TNC

7131009



FME M / SMA M

7131011



FME M / FME M

7130003



DIN

7420002



ISO / DIN ADAPTER

7420003



DIN / ISO ADAPTER

7542030



DIN F

7130005



TAPPO COPRIFORO  
HOLE COVER CAP



## 7. SPARE PARTS



### *Excellence in Communication*

- 64 - Aste di ricambio AM/FM - VHF/UHF**  
AM/FM - VHF/UHF spare part rods  
AM/FM - VHF/UHF Ersatzstäbe  
Fouet de rechange AM/FM - VHF/UHF  
Varillas de recambio AM/FM - VHF/UHF  
AM/FM - VHF/UHF запасные стержни  
AM/FM - VHF/UHF vervangingsonderdelen spriet
  
- 65 - Aste di ricambio GSM/UMTS-Bifunz.-Multifunz.-TV-DAB**  
Spare rods GSM/UMTS-bifunction-multifunction-TV-DAB  
Ersatzstäbe GSM/UMTS-bifunktion-multifunktion-TV-DAB  
Fouets de rechange GSM/UMTS-bifonction-multifonction-TV-DAB  
Varillas de recambio GSM/UMTS-bifunción-multifunción-TV-DAB  
Запасные стержни GSM/UMTS- би-функциональная – мульти-функциональная – ТВ – DAB  
Vervang spriet GSM/UMTS - Bifunctie - Multifunctie - TV - DAB
  
- 66 - Cavi AM/FM - GSM - GPS - TV - DAB - VHF/UHF**  
Cables AM/FM - GSM - GPS - TV - DAB - VHF/UHF  
Kabel AM/FM - GSM - GPS - TV - DAB - VHF/UHF  
Câbles AM/FM - GSM - GPS - TV - DAB - VHF/UHF  
Cables AM/FM - GSM - GPS - TV - DAB - VHF/UHF  
Кабели AM/FM – GSM – GPS – ТВ – DAB - VHF/UHF  
Kabels AM/FM - GSM - GPS - TV - DAB - VHF/UHF

## 7. SPARE PARTS

### Aste di ricambio AM/FM - VHF/UHF

AM/FM - VHF/UHF spare part rods / AM/FM - VHF/UHF Ersatzstäbe / Fouet de rechange AM/FM - VHF/UHF / Varillas de recambio AM/FM - VHF/UHF / AM/FM - VHF/UHF запасные стержни / AM/FM - VHF/UHF vervangingsonderdelen spriet

7551019

**Asta antenna tipo 16V AM/FM** / Spare rod for 16V type aerial / Ersatzstab für 16V Typ Antenne / Fouet de rechange pour antenne type 16V / Varilla de recambio para antenna 16V / Запасной стержень для активных антенн

**O.E. SUPPLY  
FORNITO SI SERIE**



Ø 5 mm



41 cm

7551037

**Asta antenna tipo 16V antifischio AM/FM** / Rod with antinoise coil for AM/FM 16V antennas / Stab "antinoise" für 16V Antennen / Fouet anti-bruit pour antennes 16V / Varilla antiruido para antenas 16V / Стержень с анти-шумной системой для радио антенн

**O.E. SUPPLY  
FORNITO SI SERIE**



Ø 5 mm



41 cm

7551039

**Asta antenna tipo 16V AM/FM** · Spare rod for 16V type aerial / Ersatzstab für 16V Typ Antenne / Fouet de rechange pour antenne type 16V / Varilla de recambio para antenna 16V / Запасной стержень для активных антенн

**O.E. SUPPLY  
FORNITO SI SERIE**



Ø 5 mm



30 cm

7552012

**Asta antenna a tetto anteriore AM/FM** / Fiber glass spare rod / Ersatz-Fiberglasstab / Fouet de rechange en fibre de verre / Varilla de recambio en fibra de vidrio / Стекловолоконный запасной стержень

**O.E. SUPPLY  
FORNITO SI SERIE**



Ø 6 mm



41 cm

7557008

7557009

**Telescopio antenna elettrica AM/FM** - Telescope for AM/FM electric aerial - Teleskop für AM/FM - Motorantenne / Brin télescopique pour antenne automatique AM/FM - Varilla para antenna eléctrica AM/FM - Телескопический стержень для автоматических антенн



79 cm



7551042

**Asta antenna tipo 16V VHF** / Spare rod for 16V VHF type aerial / Ersatzstab für 16V VHF Typ Antenne / Fouet de rechange pour antenne type 16V VHF / Varilla de recambio para antenna 16V VHF / Запасной стержень для активных антенн



Ø 5 mm



38 cm



7551041

**Asta antenna tipo 16V UHF** / Spare rod for 16V UHF type aerial / Ersatzstab für 16V UHF Typ Antenne / Fouet de rechange pour antenne type 16V UHF / Varilla de recambio para antenna 16V UHF / Запасной стержень для активных антенн



Ø 5 mm



26 cm

7552017

**Asta antenna a tetto anteriore AM/FM** / Fiber glass spare rod / Ersatz-Fiberglasstab / Fouet de rechange en fibre de verre / Varilla de recambio en fibra de vidrio / Стекловолоконный запасной стержень



Ø 6 mm



84 cm



7550028

**Asta ricambio per antenne in gomma** / Spare rod for rubber antennas / Ersatzstab für Gummi-Antennen / Fouet de rechange pour antennes en caoutchouc / Varilla de recambio para antenas de goma / Запасной стержень для Резиновые антенны



Ø 6 mm



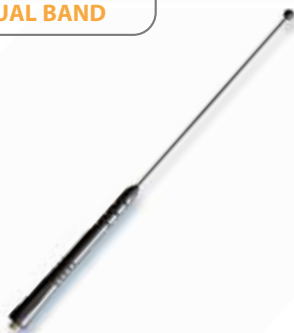
36 cm



**Aste di ricambio GSM/UMTS-Bifunz.-Multifunz.-TV-DAB**

Spare rods, GSM/UMTS-bifunction-multifunction-TV-DAB / Ersatzstäbe, GSM/UMTS-bifunktion-multifunktion-TV-DAB / Fouets de rechange GSM/UMTS-bifonction-multifonction-TV-DAB / Varillas de recambio GSM/UMTS-bifunción-multifunción / TV-DAB / Запасные стержни, GSM/UMTS – би-функциональная – мульти-функциональная / ТВ – DAB / Vervang spriet, GSM/UMTS - Bifunctie - Multifunctie - TV - DAB

**7551032**
**Asta collineare GSM / GSM Colinear rod**  
 GSM Kolinearstab / Fouet colinéaire GSM  
 Varilla colinear GSM / GSM коллинеарный стержень

**DUAL BAND**


Ø 5 mm



25 cm

**7551029**
**Asta 1/4 onda GSM / GSM 1/4 wave rod**  
 GSM 1/4 Wellen-Stab / Fouet 1/4 onde GSM  
 Varilla 1/4 onda GSM / GSM стержень 1/4

**DUAL BAND**


Ø 5 mm



5,9 cm

**7551028**
**Asta antenna Duplex · Rod for Duplex antenna**  
 Stab für Duplex Antenne · Fouet pour antenne Duplex · Varilla para antena Duplex  
 Стержень для дуплексной антенны


Ø6 mm



5 cm

**7551027**
**Asta antenna AM/FM/GSM posteriore · Rod for AM/FM -GSM rear roof antenna · Stab für AM/FM-GSM Heckeinbau-Dachantenne · Fouet pour antenne de toit arrière AM/FM-GSM · Varilla para antena de techo posterior AM/FM-GSM**  
 Стержень для AM/FM -GSM антенна на заднюю часть крыши


Ø 6 mm



41 cm

**7551038**
**Asta antenna BI-TV e TRI-TV · Rod for BI-TV and TRI-TV antennas · Stab für BI-TV und TRI-TV Antennen**  
 Fouet pour antennes BI-TV et TRI-TV · Varilla para antenas BI-TV y TRI-TV · Стержень для BI-TV и TRI-TV антенн


Ø 6 mm



41 cm

**7551033**
**Asta antenna tipo 16V DAB · Rod for DAB 16V antennas · Stab für DAB 16V Antennen**  
 Fouet pour antennes 16V DAB · Varilla para antenas 16V DAB · Стержень для DAB антенн


Ø 6 mm



41 cm

**7551040**
**Asta antenna tipo 16V AM/FM-DAB · Rod for AM/FM-DAB 16V antennas · Stab für AM/FM-DAB 16V Antennen · Fouet pour antennes 16V AM/FM-DAB · Varilla para antenas 16V AM/FM-DAB · Стержень для AM/FM-DAB антенн**
**COMBI DAB**


Ø 6 mm



41 cm

**7552090**
**Asta antenna tipo 16V AM/FM-DAB · Rod for AM/FM-DAB 16V antennas · Stab für AM/FM-DAB 16V Antennen · Fouet pour antennes 16V AM/FM-DAB · Varilla para antenas 16V AM/FM-DAB · Стержень для AM/FM-DAB антенн**
**COMBI DAB**


Ø 5 mm



20 cm

**7551045**
**Asta antenna AM/FM-DAB anteriore · Rod for AM/FM-DAB front roof antenna · Stab für AM/FM-DAB Fronteinbau-Dachantenne · Fouet pour antenne de toit avant AM/FM-DAB · Varilla para antena de techo anterior AM/FM-DAB · Стержень для AM/FM -DAB антенна на переднюю часть крыши**
**COMBI DAB**

 Ø 5 mm  
 Ø 6 mm


40 cm

## 7. SPARE PARTS

### Cavi AM/FM - GSM - GPS - TV - DAB - VHF/UHF

Cables AM/FM - GSM - GPS - TV - DAB - VHF/UHF / Kabel AM/FM - GSM - GPS - TV - DAB - VHF/UHF / Câbles AM/FM - GSM - GPS - TV - DAB - VHF/UHF / Cables AM/FM - GSM - GPS - TV - DAB - VHF/UHF / Кабели AM/FM - GSM - GPS - TV - DAB - VHF/UHF / Kabels AM/FM - GSM - GPS - TV - DAB - VHF/UHF

7581002

**Cavo antenna elettrica AM/FM** · Cable for AM/FM electric antenna · Kabel für AM/FM Motorantenne · Câble pour antenne électrique AM/FM · Cable para antena eléctrica AM/FM · Кабель для автоматических антенн



BP F/DIN



1,5 m

7581062

**Cavo antenna AM/FM tipo 16V** · Cable for AM/FM 16V antenna · Kabel für AM/FM 16V Antenne · Câble pour antenne 16V AM/FM · Cable para antena 16V AM/FM · Кабель для активных радио антенн



HC97 M/ISO



5,6 m

7581119

**Cavo antenna AM/FM tipo 16V** · Cable for AM/FM 16V antenna · Kabel für AM/FM 16V Antenne · Câble pour antenne 16V AM/FM · Cable para antena 16V AM/FM · Кабель для активных радио антенн



HC97 M/DIN



5,6 m

7581045

**Cavo antenne GSM FMEF/FMEF** · FMEF/FMEF cable for GSM antennas · FMEF/FMEF Kabel für GSM Antennen · Câble FMEF/FMEF pour antenne GSM · Cable FMEF/FMEF para antenas GSM · FMEF/FMEF кабель для GSM антенн



FME F/FME F



5 m

7581076

**Cavo GSM per antenne a tetto posteriori** · GSM cable for rear roof antennas · GSM Kabel für Heckinbau-Antennen · Câble GSM pour antenne de toit arriere · Cable GSM para antenas de techo posterior · GSM кабель для антенн на заднюю часть крыши



HC97 F/FME F



5 m

7581103

**Cavo antenne GPS posteriori mono o multifunzione** · Cable for GPS monofunction or multifunction rear roof antennas · Kabel für GPS monofunktion or multifunktion Heckinbau-Antennen · Câble pour antenne de toit arriere GPS monofunktion or multifunktion · Cable GSM para antenas de techo posterior GPS monofuncion o multifuncion · Кабель для GPS моно-функциональных и мульти-функциональных антенн на заднюю часть крыши



FAKRA F/SMB F



5 m

7131018

**Cavo TV per antenne tipo 16V** · TV cable for 16V antennas · TV Kabel für 16V Antenne · Câble TV pour antenne 16V · Cable TV para antenas 16V · ТВ кабель для активных антенн



HC97 F/Mini Jack Mono



5 m

7581141

**Cavo DAB per antenne tipo 16V** · DAB cable for 16V antennas · DAB Kabel für 16V Antenne · Câble DAB pour antenne 16V · Cable DAB para antenas 16V · DAB кабель для активных антенн



SMB F/FAKRA F



5 m

7581116

**Cavo AM/FM DAB VHF/UHF per antenne a tetto posteriori** · AM/FM DAB VHF/UHF cable for rear roof antennas · AM/FM DAB VHF/UHF Kabel für Heckinbau-Antennen · Câble AM/FM DAB VHF/UHF pour antenne de toit arriere · Cable AM/FM DAB VHF/UHF para antenas de techo posterior · AM/FM DAB VHF/UHF кабель для антенн на заднюю часть крыши




















































FAKRA F/FME F



5 m





 <b>Cavo AM/FM</b> AM/FM cable - AM/FM Kabel - Câble AM/FM - Cable AM/FM - AM/FM кабель	 <b>Connettore AM/FM</b> AM/FM Connector - AM/FM Steckverbinder - Connecteur AM/FM - Conector AM/FM - AM/FM коннектор	 <b>Frequenza di lavoro</b> Frequency band - Frequenzbereich - Bande de fréquence - Banda de frecuencia - Частотный диапазон
 <b>Cavo GSM</b> GSM cable - GSM Kabel - Câble GSM - Cable GSM - GSM кабель	 <b>Connettore GSM</b> GSM Connector - GSM Steckverbinder - Connecteur GSM - Conector GSM - GSM коннектор	 <b>Guadagno in dB</b> Gain (dB) - Gewinn (dB) - Gain (dB) - Ganancia (dB) - Потери мощности (дБ)
 <b>Cavo GPS</b> GPS cable - GPS Kabel - Câble GPS - Cable GPS - GPS кабель	 <b>Connettore GPS</b> GPS Connector - GPS Steckverbinder - Connecteur GPS - Conector GPS - GPS коннектор	 <b>Potenza massima applicabile</b> Max. power - Max. Leistung - Puissance max. - Potencia max. - Макс. мощность
 <b>Cavo VHF</b> VHF cable - VHF Kabel - Câble VHF - Cable VHF - VHF кабель	 <b>Connettore VHF</b> VHF Connector - VHF Steckverbinder - Connecteur VHF - Conector VHF - VHF коннектор	 <b>Absorbimento di corrente</b> Power absorption - Stromaufnahme - Absorption de courant - Absorción de corriente - Поглощательная способность
 <b>Cavo UHF</b> UHF cable - UHF Kabel - Câble UHF - Cable UHF - UHF кабель	 <b>Connettore UHF</b> UHF Connector - UHF Steckverbinder - Connecteur UHF - Conector UHF - UHF коннектор	 <b>VSWR</b> KCBH
 <b>Cavo WIFI</b> WIFI cable - WIFI Kabel - Câble WIFI - Cable WIFI - WIFI кабель	 <b>Connettore WIFI</b> WIFI Connector - WIFI Steckverbinder - Connecteur WIFI - Conector WIFI - WIFI коннектор	 <b>Misure d'ingombro</b> Overall dimensions - Außenmasse - Dimensions maximales - Medidas máximas - Габариты
 <b>Cavo TETRA</b> TETRA cable - TETRA Kabel - Câble TETRA - Cable TETRA - TETRA кабель	 <b>Connettore TETRA</b> TETRA Connector - TETRA Steckverbinder - Connecteur TETRA - Conector TETRA - TETRA коннектор	 <b>Inclinazione snodo</b> Fixing base inclination - Antennenfußneigung - Inclinación embase - Inclinación base - Фиксированный наклон основания
 <b>Cavo TV</b> TV cable - TV Kabel - Câble TV - Cable TV - ТВ кабель	 <b>Connettore TV</b> TV Connector - TV Steckverbinder - Connecteur TV - Conector TV - ТВ коннектор	 <b>Inclinazione asta</b> Rod inclination - Stabneigung - Inclinación fouet - Inclinación varilla - Наклон стержня
 <b>Cavo DAB</b> DAB cable - DAB Kabel - Câble DAB - Cable DAB - DAB кабель	 <b>Connettore DAB</b> DAB Connector - DAB Steckverbinder - Connecteur DAB - Conector DAB - DAB коннектор	 <b>Lunghezza asta in fibra di vetro</b> Fiber glass rod length - Fiberglasstab-länge - Longueur fouet fibre de verre - Largueza varilla fibra de vidrio - Длина стекловолоконного стержня
 <b>Cavo LTE</b> LTE cable - LTE Kabel - Câble LTE - Cable LTE - LTE кабель	 <b>Connettore LTE</b> LTE Connector - LTE Steckverbinder - Connecteur LTE - Conector LTE - LTE коннектор	 <b>Lunghezza asta in gomma</b> Rubber rod length - Gummi-Stablänge - Longueur fouet caoutchouc - Largueza varilla goma - Длина резинового стержня
 <b>Cavo alimentazione</b> Power cable - Stromkabel - Câble alimentation - Cable alimentacion - Кабель Питание	 <b>Connettore FM</b> DAB Connector - FM Steckverbinder - Connecteur FM - Conector FM - FM коннектор	 <b>Lunghezza asta in acciaio inox</b> Stainless steel rod length - Edelstahlstablänge - Longueur fouet acier inox - Largueza varilla acero inox - Длина стержня из нержавеющей стали
 <b>Cavo</b> Cable - Kabel - Câble - Cable - кабель	 <b>Satelliti preimpostati</b> Preset satellites - Voreingestellte Satelliten - Satellites prédéfinis - Satélites preestablecidos - предустановленных спутников	 <b>Lunghezza asta telescopica</b> Rod length - Stablänge - Longueur brin télescopique - Largueza varilla telescópica - Длина стержня
 <b>Alimentazione interna al cavo antenna</b> Phantom feeding - Phantomspeisung - Alimentation phantom - Alimentación phantom - Питание внутри радио кабеля	 <b>Asta di ricambio</b> Spare part mast - Ersatzstab - Fouet de rechange - Varilla de recambio - Запасной стержень	 <b>Numero elementi asta telescopica</b> Telescope sections - Teleskopteile - Nombre éléments brin télescopique - Elementos varilla - Телескопические секции
 <b>Alimentazione</b> Feeding cable - Steuerplusleitung - Câble alimentation - Cable alimentación - Питание по отдельному кабелю	 <b>Asta sintonizzabile</b> Tunable rod - Einstellbarer Stab - Fouet tunable - Varillas sintonizables - перестраиваемый стержень	 <b>Telescopio intercambiabile</b> Compatible telescope - Wechselbares Teleskop - Brin télescopique compatible - Varilla compatible - Телескопический стержень
 <b>Foratura carrozzeria</b> Coachwork drilling - Karosseriebohrung - Perçage carroserie - Taladro carrocería - Монтажное отверстие	 <b>Asta con sistema antifurto</b> Rod with antitheft system - Stab mit diebstahlsicherem System - Fouet avec système antivol - Varilla con sistema antirrobo - Стержень с фирменной системой защиты от кражи	 <b>Telescopio cromato</b> Chromed telescope - Teleskop-verchromt - Téléscope chromé - Telescópio cromado - Хромированный стержень
 <b>Filettatura asta</b> Mast thread - Stabgewinde - Filetage fouet - Rosca varilla - Резьба стержня	 <b>Telescopio nero</b> Black telescope - Teleskop-schwarz - Téléscope noir - Telescópio negro - Черный стержень	 <b>Telescopio nero</b> Black telescope - Teleskop-schwarz - Téléscope noir - Telescópio negro - Черный стержень
 <b>Tipologia di montaggio</b> Mounting - Einbau - Montage - Montaje - Установка		

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7130005	62	7550028	64	7581101	57	7677924	48	7730218	14
7131003	62	7551019	64	7581103	66	7677931	38	7730219	14
7131004	62	7551027	65	7581105	59	7677932	38	7730220	14
7131005	62	7551028	65	7581106	60	7677933	40	7730226	14
7131006	62	7551029	65	7581107	57	7677937	42	7747001	33
7131009	62	7551032	65	7581109	60	7677938	41	7747002	33
7131011	62	7551033	65	7581112	56	7677939	41	7750004	19
7131017	33	7551037	64	7581116	66	7677940	42	7750005	19
7131018	66	7551038	65	7581118	60	7677941	39	7750006	19
7131026	59	7551039	64	7581119	61-66	7677942	43	7750011	19
7131041	59	7551040	65	7581120	57	7677943	48	7750012	19
7131045	59	7551041	64	7581121	57	7677944	47	7750020	19
7131046	61	7551042	64	7581122	59	7677947	39	7750022	19
7131047	61	7551045	65	7581123	60	7680141	16	7752006	19
7132020	59	7552012	64	7581126	59	7680210	15	7771000	24
7132021	60	7552017	64	7581130	56	7680381	22	7771001	26
7132074	59	7552090	65	7581131	56	7681052	16	7771002	24
7132078	58	7557008	64	7581132	56	7681056	17	7771003	26
7132079	58	7557009	64	7581135	57	7681081	27	7771004	26
7132080	58	7561003	25	7581136	57	7681083	14	7771005	25
7132081	58	7562005	44	7581139	61	7681085	17	7771006	24
7132082	58	7562016	52	7581141	66	7681086	16	8610010	21
7132083	58	7562019	28	7582032	56	7681088	16	8610021	20
7132084	58	7567016	28	7590007	43	7681089	16	8610029	22
7132085	58	7581002	61-66	7590008	58	7681430	16	8610045	20
7137121	34	7581004	61	7627008	51	7687020	18	8610064	20
7137122	36	7581020	61	7651006	50	7687052	15	8610069	20
7137124	34	7581023	61	7657008	50	7694003	51	8610028	16
7137125	35	7581029	61	7657009	49	7697015	52	8610038	16
7137126	35	7581034	61	7657015	49	7727001	13	8610080	21
7137128	34	7581037	61	7657016	50	7727002	13	8610096	17
7137129	35	7581040	61	7657019	49	7727004	18	8610097	17
7137131	34	7581042	61	7657020	50	7727005	13	8610098	22
7137132	35	7581045	61-66	7657021	49	7727011	13	8610102	17
7137134	40	7581046	61	7667001	53	7727016	27	8610103	21
7137969	36	7581059	57	7667002	53	7727050	46	8610105	17
7138053	31	7581062	61-66	7667003	53	7727055	11	8610118	21
7138058	31	7581065	56	7677150	54	7727060	11	8610119	17
7138153	30	7581066	56	7677151	54	7727065	12	8610121	21
7138154	30	7581067	56-59	7677153	51	7727070	10	8610123	21
7181113	60	7581076	66	7677900	46	7727075	13	8610124	20
7420002	62	7581077	60	7677901	47	7727080	32	8610125	20
7420003	62	7581079	60	7677906	46	7727085	32	8610127	20
7541009	54	7581094	61	7677907	48	7727090	12	8610130	20
7541015	54	7581095	61	7677908	47	7727095	10	8610136	20
		7581096	61						

**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 aesthetic features of its products at any time and without prior notice.

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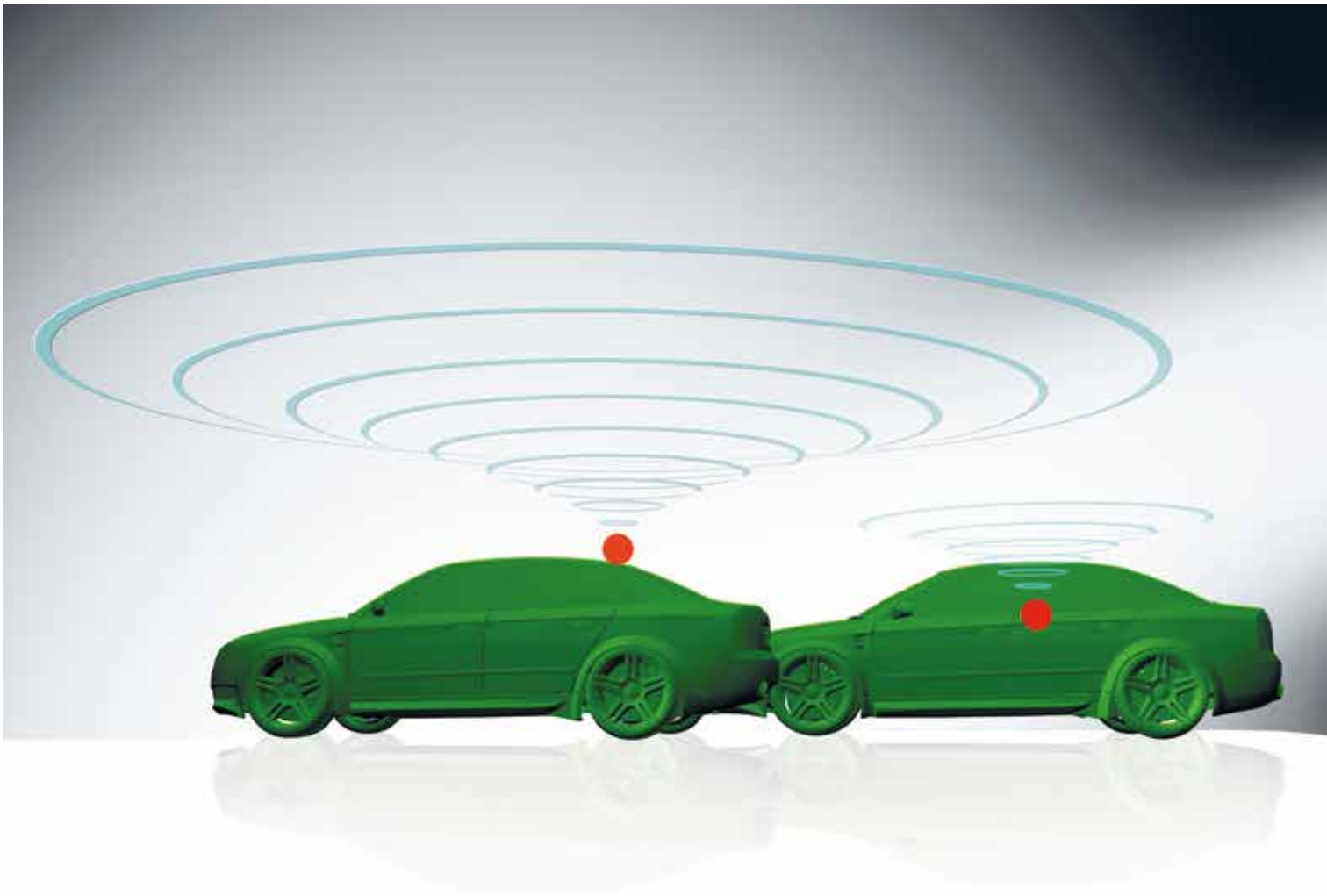
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**CALEARO** heeft altijd een beleid van continue research en ontwikkeling nagestreeft. Daartoe behoudt het bedrijf het recht om te allen tijde en zonder voorafgaande kennisgeving technische en/of esthetische aanpassingen in haar producten te doen.





### SICUREZZA E FUNZIONALITÀ

I vantaggi delle antenne mono e multifunzione Calero:

- aumento della copertura di ricezione dei sistemi radio;
- aumento della qualità del segnale, con conseguente riduzione delle interferenze;
- rispetto dei parametri estetici dell'auto.

### SAFETY & FUNCTIONALITY

Advantages of Calero mono-function or multi-function antennas:

- increase of radio systems reception coverage;
- increase of signal quality and breakdown reduction;
- preservation of car aesthetical design.

### SICHERHEIT UND FUNKTIONALITÄT

Vorteile der Calero Mono- und Mehrfunktionsantennen:

- Erweiterung der Empfangsfähigkeit des Radiosystems;
- Verbesserung der Signalqualität und Störeingrenzung;
- Bewahrung des ästhetischen Designs.

### SECURITÉ ET FONCTIONNALITÉ

Avantages des antennes Calero mono et multifonction:

- extension de la couverture de réception;
- amélioration de la qualité du signal et réduction des interférences;
- respect des paramètres esthétiques de la voiture.

### SEGURIDAD Y FUNCIONALIDAD

Ventajas de las antenas Calero mono y multi-función:

- aumento de la zona de recepción de los sistemas radio;
- mejor calidad de la señal y reducción de las interferencias;
- respeto de los parámetros estéticos del coche.

### БЕЗОПАСНОСТЬ И ФУНКЦИОНАЛЬНОСТЬ

Преимущества моно- и мульти-функциональных антенн Calero:

- Увеличение диапазона приема радио сигнала;
- Улучшение качества сигнала и подавление шумов;
- Эстетическое соответствие дизайну автомобиля.

### VEILIGHEID & FUNCTIONALITEIT

Voordelen van Calero monofunctie of multifunctie antennes:

- Toename van radio systemen ontvangst bereik;
- Toename van signaalkwaliteit en afbraakreductie;
- Bescherming van het esthetische design van de auto.

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