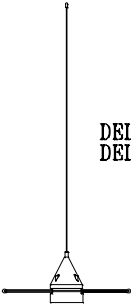
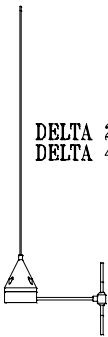
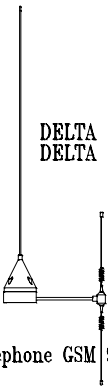
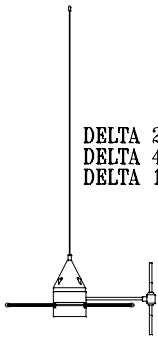
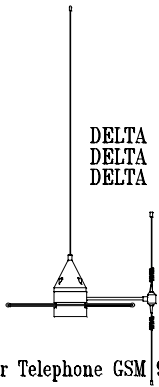
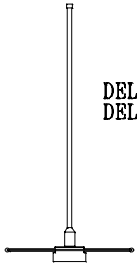
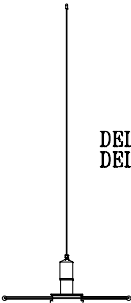





RR Antenna Systems

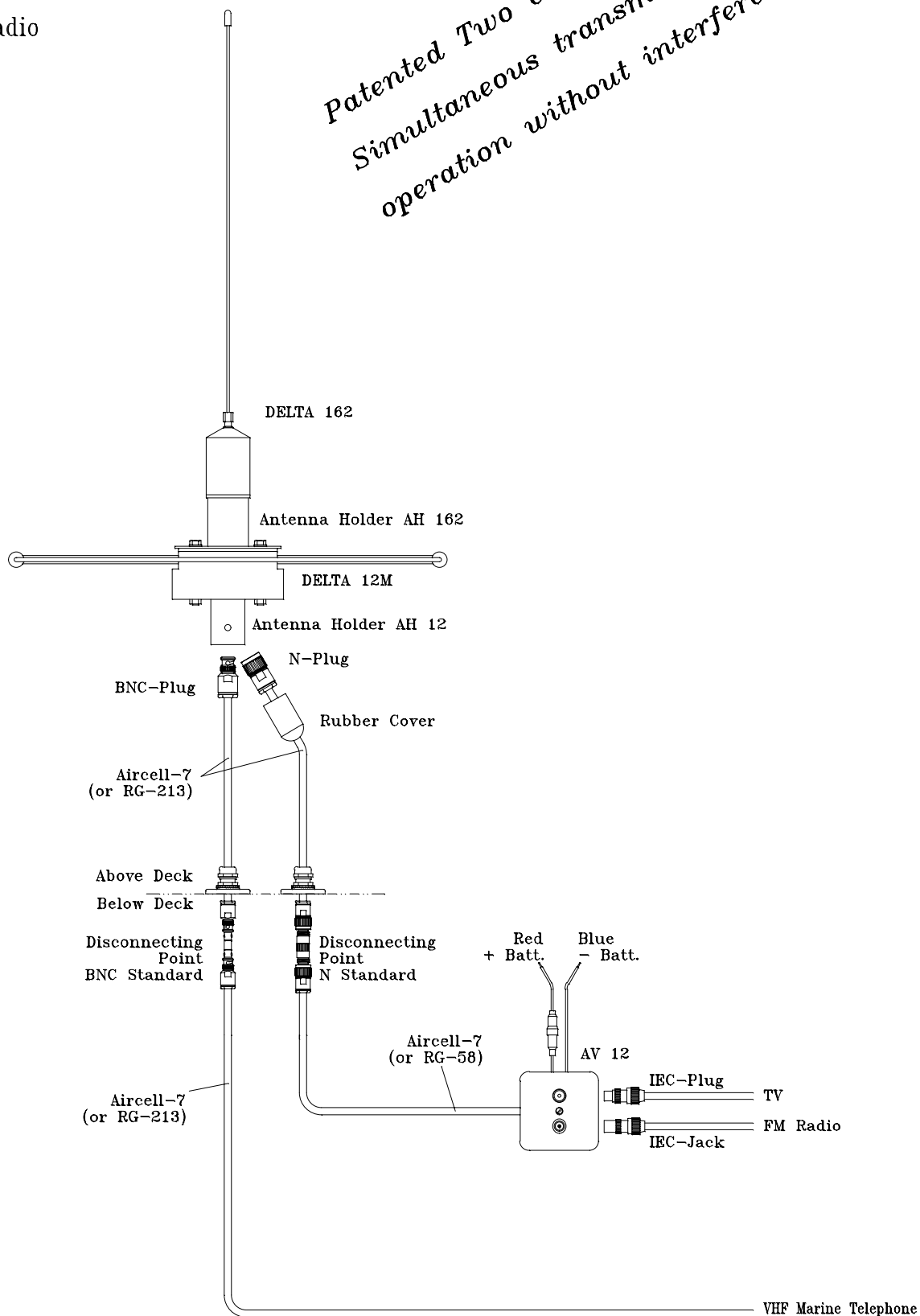
BISCAYA	GIBRALTAR	HAWAII	ATLANTIC	PACIFIC	PANAMA
 <p>DELTA 200 S DELTA 12 M</p> <ul style="list-style-type: none"> ● VHF ● TV ● AM / FM Radio ● SSB Receiver □ Weatherfax □ NAVTEX □ LORAN C □ Differential-GPS <p>● Two Cable Technology</p>	 <p>DELTA 200 S DELTA 450/900</p> <ul style="list-style-type: none"> ● Cellular Telephone GSM 900MHz ● Cellular Telephone 450MHz ● VHF ● AM / FM Radio ● SSB Receiver □ Weatherfax □ NAVTEX □ LORAN C □ Differential-GPS <p>● One Cable Technology</p>	 <p>DELTA 200 S DELTA 900 S</p> <ul style="list-style-type: none"> ● Cellular Telephone GSM 900MHz ● VHF ● AM / FM Radio ● SSB Receiver □ Weatherfax □ NAVTEX □ LORAN C □ Differential-GPS <p>● One Cable Technology</p>	 <p>DELTA 200 S DELTA 450/900 DELTA 12 M</p> <ul style="list-style-type: none"> ● Cellular Telephone GSM 900MHz ● Cellular Telephone 450MHz ● VHF ● TV ● AM / FM Radio ● SSB Receiver □ Weatherfax □ NAVTEX □ LORAN C □ Differential-GPS <p>● Two Cable Technology</p>	 <p>DELTA 200 S DELTA 900 S DELTA 12 M</p> <ul style="list-style-type: none"> ● Cellular Telephone GSM 900MHz ● VHF ● TV ● AM / FM Radio ● SSB Receiver □ Weatherfax □ NAVTEX □ LORAN C □ Differential-GPS <p>● Two Cable Technology</p>	 <p>DELTA 1000S DELTA 12 M</p> <ul style="list-style-type: none"> ● Cellular Telephone GSM 900MHz ● VHF ● TV ● FM Radio <p>● Two Cable Technology</p>
ANTIGUA	JAMAICA	CARIBIC	<p>- All antennas: <i>MADE IN GERMANY</i> with type approval</p> <p>- Saltwater-proof design: stainless steel 316 polished material</p> <p>- Antennas successfully in use worldwide for years, e.g.: <i>Whitbread race, "INTRUM JUSTITIA"</i></p>		
 <p>DELTA 162 DELTA 12 M</p> <ul style="list-style-type: none"> ● VHF ● TV ● FM Radio 	 <p>DELTA 162 DELTA 450/900</p> <ul style="list-style-type: none"> ● Cellular Telephone GSM 900MHz ● Cellular Telephone 450MHz ● VHF 	 <p>DELTA 162 DELTA 450/900 DELTA 12 M</p> <ul style="list-style-type: none"> ● Cellular Telephone GSM 900MHz ● Cellular Telephone 450MHz ● VHF ● TV ● FM Radio 			

All systems are also available with DSC option
For further information contact your local distributor:

Antenna System ANTIGUA

- VHF
- TV
- FM Radio

*Patented Two Cable Technology
Simultaneous transmit and receive
operation without interference*



Antenna System ANTIGUA

The following equipment can be connected immediately:

- 1 VHF marine telephone
- 1 FM Radio
- 1 TV set

For the installation 2 coaxial cables (50 Ohm) are needed; we recommend Aircell-7 cable. The equipment is connected to the 12V/24V ship's supply system.

The antenna system consists of:

- 1 **DELTA 162** Antenna
- 1 **DELTA 12M** Antenna
- 1 **AV 12** Distribution box
- 1 **AH 12** Antenna holder for mounting on a tube of 34mm inner diameter, incl. screws
- 1 **AH 162** Antenna holder for mounting DELTA 162 on top of DELTA 12M
- 1 **Mounting instruction** German / English

Accessories:

AV 14 Distribution box with each 2 outputs TV and FM Radio as replacement for distribution box AV 12

VK2.05 Adaptercable AV12 (if RG-213 is used)

Antenna cable sets consisting of 2 coaxial cables Aircell-7 with plugs mounted and 2 disconnection sets (N-standard and BNC-standard):

KS7.15 Cable length 15m each

KS7.20 Cable length 20m each

KS7.25 Cable length 25m each

KS7.30 Cable length 30m each

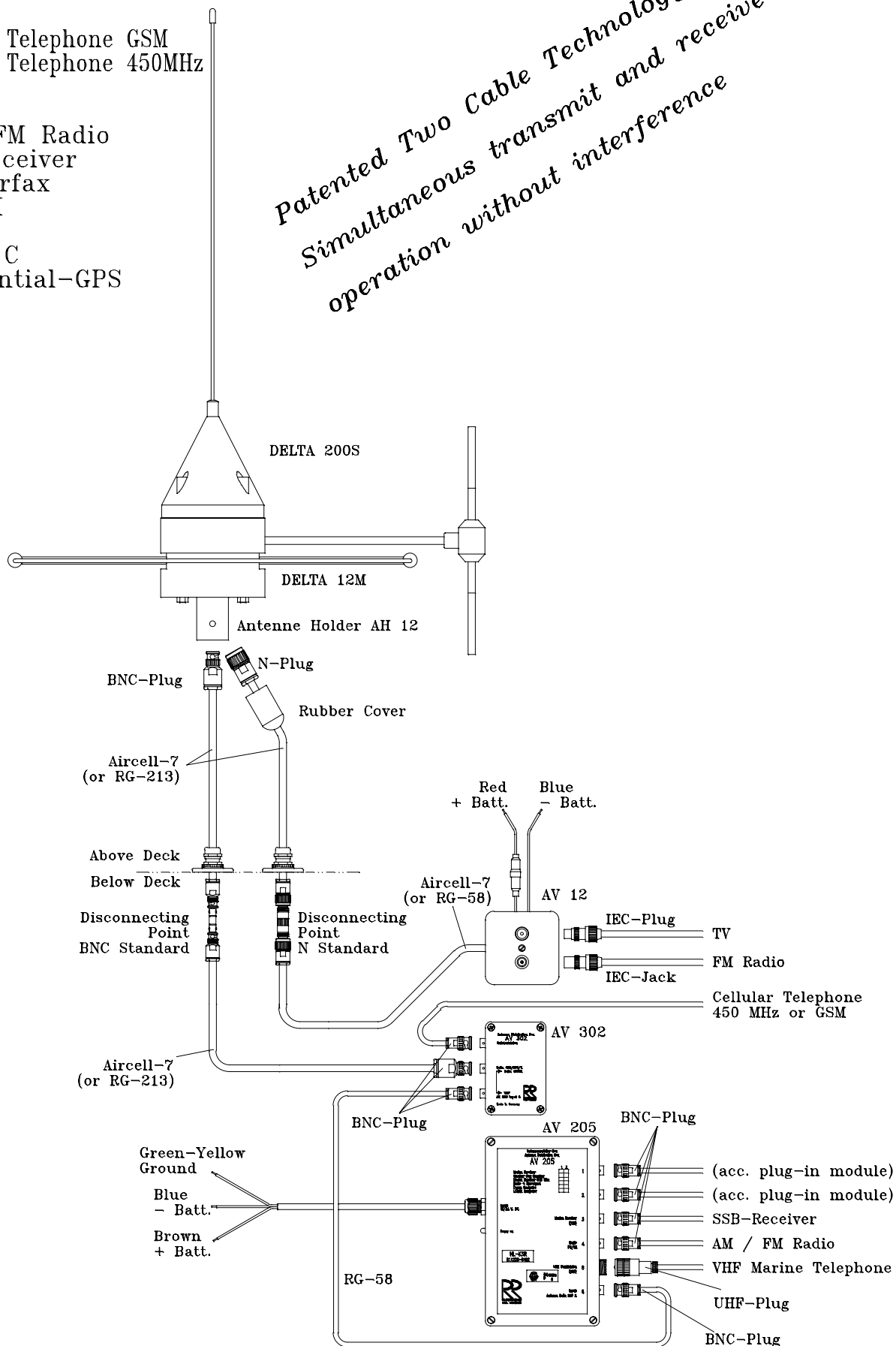
Other lengths upon request.



Antenna System ATLANTIC

- Cellular Telephone GSM
- Cellular Telephone 450MHz
- VHF
- TV
- AM / FM Radio
- SSB Receiver
- Weatherfax
- NAVTEX
- DECCA
- LORAN C
- Differential-GPS

Patented Two Cable Technology
Simultaneous transmit and receive
operation without interference



Antenna System ATLANTIC

The following equipment can be connected immediately:

- 1 VHF marine telephone
- 1 AM / FM Radio
- 1 SSB receiver
- 1 FM Radio
- 1 TV set
- 1 Cellular telephone GSM and / or 450MHz

Up to 2 additional equipment can be connected using optional plugin modules:

- ☐ AM/FM Radio
- ☐ SSB receiver
- ☐ Weatherfax
- ☐ NAVTEX decoder
- ☐ DECCA navigator
- ☐ LORAN C navigator
- ☐ Differential GPS navigator

For the installation 2 coaxial cables (50 Ohm) are needed; we recommend Aircell-7 cable. The equipment is connected to the 12V/24V ship's supply system.

The antenna system consists of:

- 1 **DELTA 200S** Antenna
- 1 **DELTA 450/900** Antenna
- 1 **DELTA 12M** Antenna
- 1 **AV 205** Distribution box
- 1 **AV 302** Distribution box
- 1 **AV 12** Distribution box
- 1 **AH 12** Antenna holder for mounting on a tube of 34mm inner diameter, incl. screws
- 1 **Mounting instruction** German / English

Accessories:

Plugin modules:

- BB** Wideband amplifier for SSB receiver, AM/FM-Radio, Weatherfax
- DAN** Filter amplifier for DECCA navigators
- DGPS** Filter amplifier for Differential-GPS navigators
- LOC** Filter amplifier for LORAN C navigators (please state type)
- LRX** Filter amplifier for LORAN C navigators of MLR ELECTRONIQUE
- NAVT** Filter amplifier for Navtex

Windex-D200 for mounting on the antenna

AV 14 Distribution box with each 2 outputs TV and FM Radio as replacement for distribution box AV 12

DIPX 500/800 Duplexer for connection of GSM and 450MHz cellular telephone simultaneously

VK1.05 Connecting cable AV 205 - AV 302 (0.5m)

VK2.05 Adaptercable AV12 (if RG-213 is used)

Antenna cable sets consisting of 2 coaxial cables Aircell-7 with plugs mounted and 2 disconnection sets (N-standard and BNC-standard):

KS4.15 Cable length 15m each

KS4.20 Cable length 20m each

KS4.25 Cable length 25m each

KS4.30 Cable length 30m each

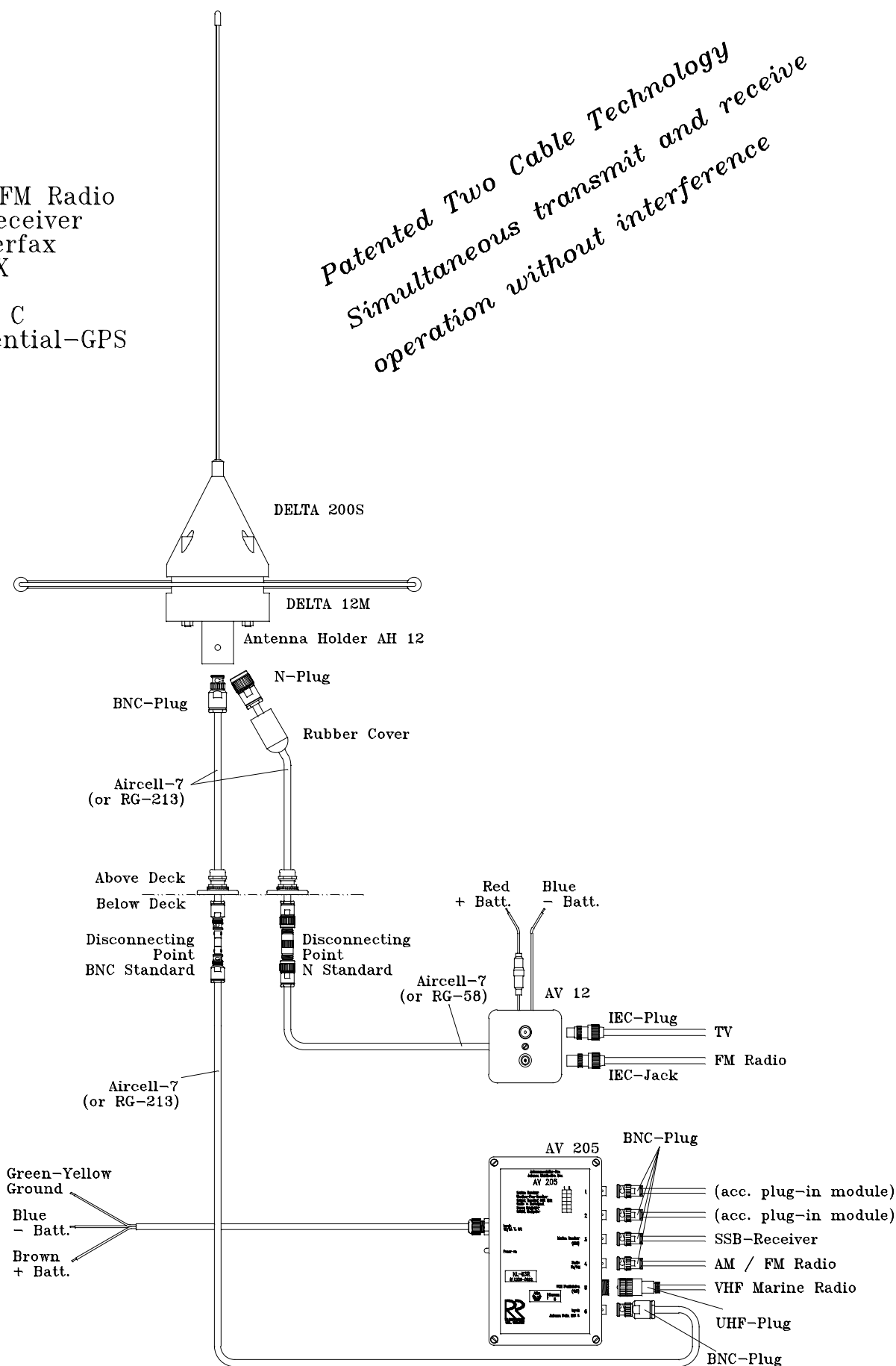
Other lengths upon request.



Antenna System BISCAYA

- VHF
- TV
- AM / FM Radio
- SSB Receiver
- Weatherfax
- NAVTEX
- DECCA
- LORAN C
- Differential-GPS

Patented Two Cable Technology
Simultaneous transmit and receive
operation without interference



Antenna System BISCAYA

The following equipment can be connected immediately:

- 1 VHF marine telephone
- 1 AM / FM Radio
- 1 SSB receiver
- 1 FM Radio
- 1 TV set

Up to 2 additional equipment can be connected using optional plugin modules:

- ☐ AM/FM Radio
- ☐ SSB receiver
- ☐ Weatherfax
- ☐ NAVTEX decoder
- ☐ DECCA navigator
- ☐ LORAN C navigator
- ☐ Differential GPS navigator

For the installation 2 coaxial cables (50 Ohm) are needed; we recommend Aircell-7 cable. The equipment is connected to the 12V/24V ship's supply system.

The antenna system consists of:

- 1 **DELTA 200S** Antenna
- 1 **DELTA 12M** Antenna
- 1 **AV 205** Distribution box
- 1 **AV 12** Distribution box
- 1 **AH 12** Antenna holder for mounting on a tube of 34mm inner diameter, incl. screws
- 1 **Mounting instruction** German / English

Accessories:

Plugin modules:

- BB** Wideband amplifier for SSB receiver, AM/FM-Radio, Weatherfax
- DAN** Filter amplifier for DECCA navigators
- DGPS** Filter amplifier for Differential-GPS navigators
- LOC** Filter amplifier for LORAN C navigators (please state type)
- LRX** Filter amplifier for LORAN C navigators of MLR ELECTRONIQUE
- NAVT** Filter amplifier for Navtex

Windex-D200 for mounting on the antenna

AV 14 Distribution box with each 2 outputs TV and FM Radio as replacement for distribution box AV 12

VK2.05 Adaptercable AV12 (if RG-213 is used)

Antenna cable sets consisting of 2 coaxial cables Aircell-7 with plugs mounted and 2 disconnection sets (N-standard and BNC-standard):

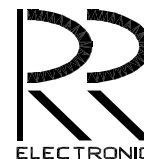
KS4.15 Cable length 15m each

KS4.20 Cable length 20m each

KS4.25 Cable length 25m each

KS4.30 Cable length 30m each

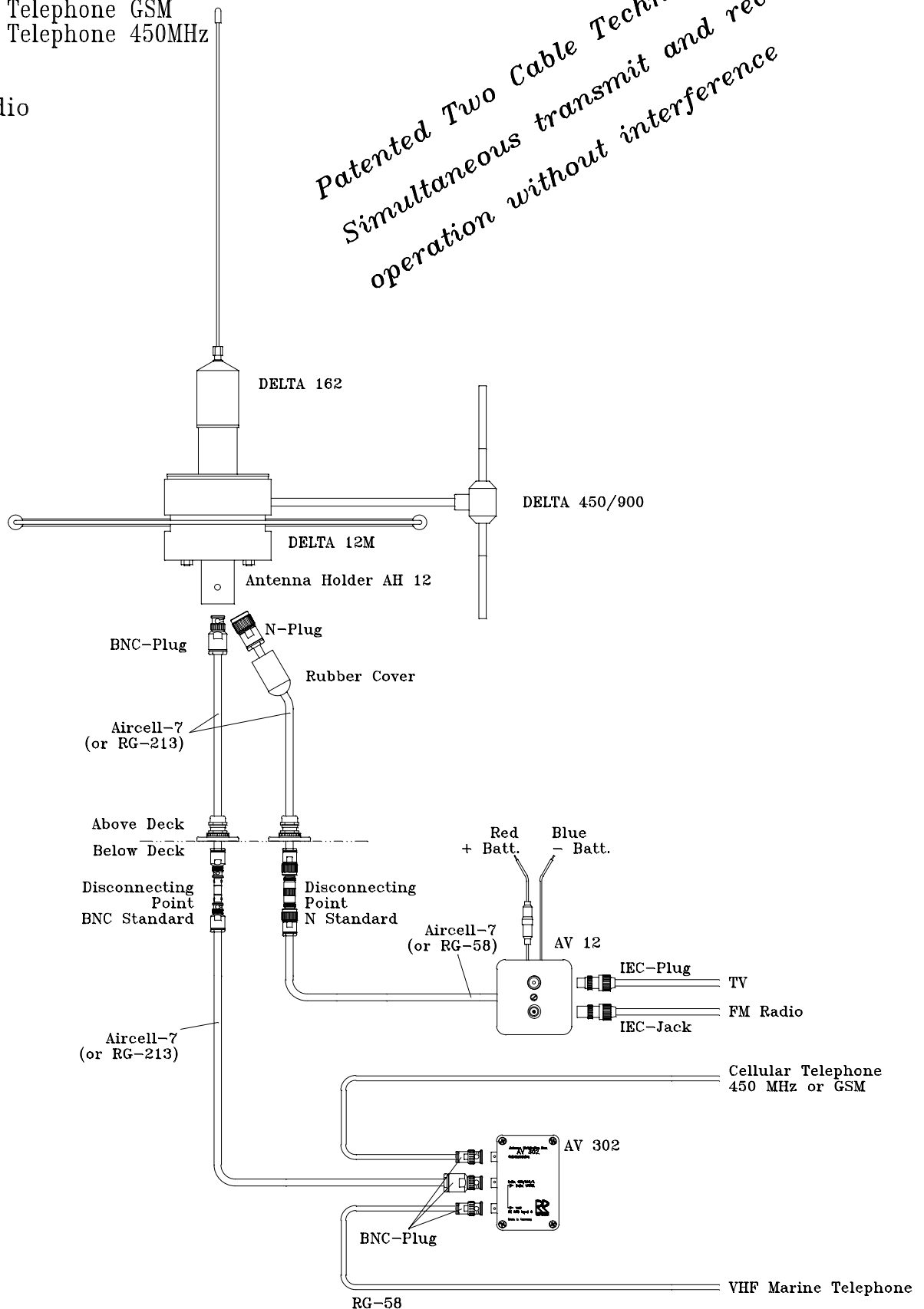
Other lengths upon request.



Antenna System CARIBIC

- Cellular Telephone GSM
- Cellular Telephone 450MHz
- VHF
- TV
- FM Radio

Patented Two Cable Technology
Simultaneous transmit and receive
operation without interference



Antenna System CARIBIC

The following equipment can be connected immediately:

- 1 VHF marine telephone
- 1 FM Radio
- 1 TV set
- 1 Cellular telephone GSM and / or 450MHz

For the installation 2 coaxial cables (50 Ohm) are needed; we recommend Aircell-7 cable. The equipment is connected to the 12V/24V ship's supply system.

The antenna system consists of:

- 1 **DELTA 162** Antenna
- 1 **DELTA 450/900** Antenna
- 1 **DELTA 12M** Antenna
- 1 **AV 302** Distribution box
- 1 **AV 12** Distribution box
- 1 **AH 12** Antenna holder for mounting on a tube of 34mm inner diameter, incl. screws
- 1 **AH 162** Antenna holder for mounting DELTA 162 on top of DELTA 450/900
- 1 **Mounting instruction** German / English

Accessories:

AV 14 Distribution box with each 2 outputs TV and FM Radio as replacement for distribution box AV 12

DIPX 500/800 Dulexer for connection of GSM and 450MHz cellular telephone simultaneously

VK2.05 Adaptercable AV12 (if RG-213 is used)

Antenna cable sets consisting of 2 coaxial cables Aircell-7 with plugs mounted and 2 disconnection sets (N-standard and BNC-standard):

KS4.15 Cable length 15m each

KS4.20 Cable length 20m each

KS4.25 Cable length 25m each

KS4.30 Cable length 30m each

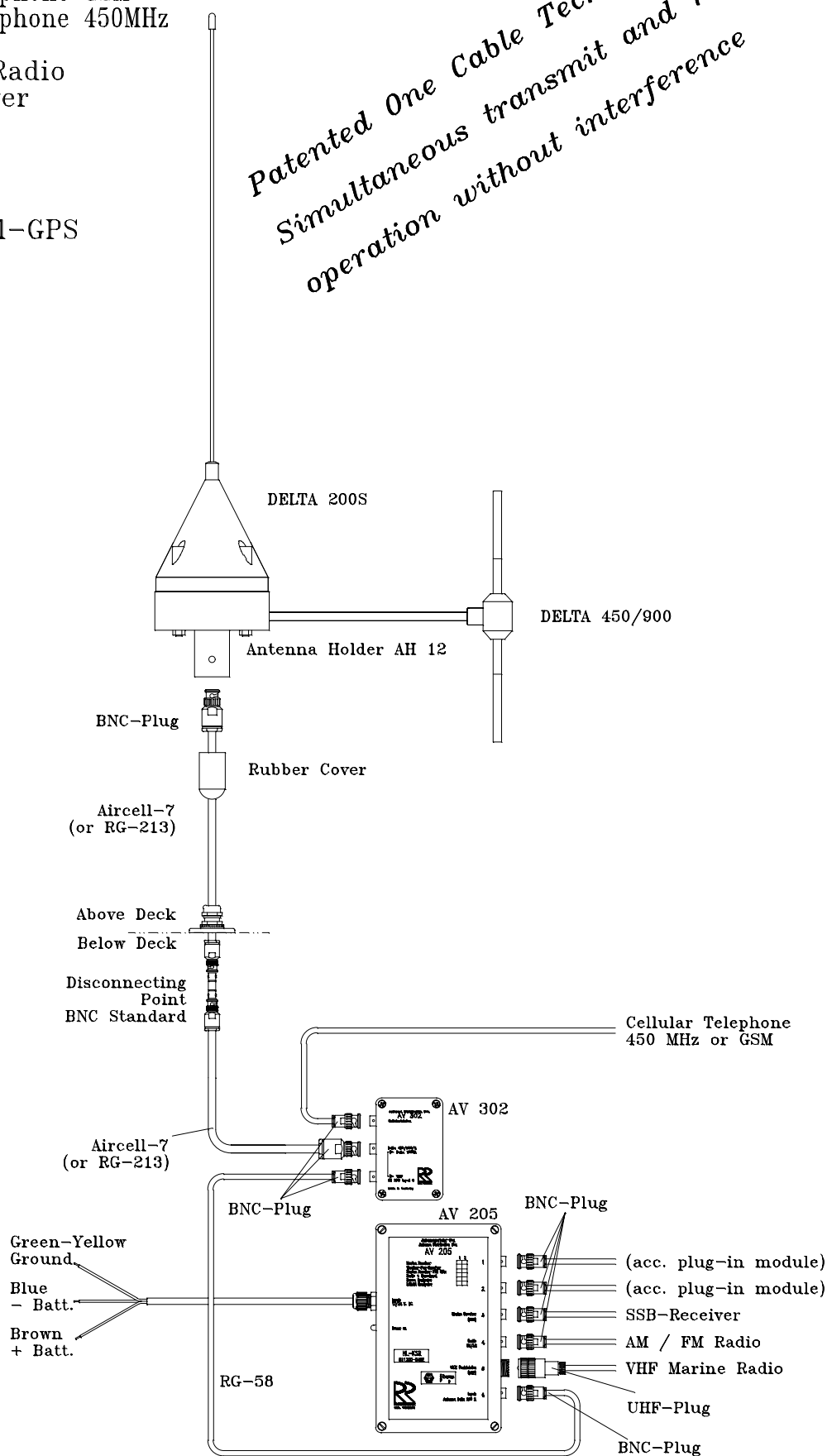
Other lengths upon request.



Antenna System GIBRALTAR

- Cellular Telephone GSM
- Cellular Telephone 450MHz
- VHF
- AM / FM Radio
- SSB Receiver
- Weatherfax
- NAVTEX
- DECCA
- LORAN C
- Differential-GPS

Patented One Cable Technology
Simultaneous transmit and receive
operation without interference



Antenna System GIBALTAR

The following equipment can be connected immediately:

- 1 VHF marine telephone
- 1 AM / FM Radio
- 1 SSB receiver
- 1 Cellular telephone GSM and / or 450MHz

Up to 2 additional equipment can be connected using optional plugin modules:

- ☐ AM/FM Radio
- ☐ SSB receiver
- ☐ Weatherfax
- ☐ NAVTEX decoder
- ☐ DECCA navigator
- ☐ LORAN C navigator
- ☐ Differential GPS navigator

For the installation 1 coaxial cable (50 Ohm) is needed; we recommend Aircell-7 cable. The equipment is connected to the 12V/24V ship's supply system.

The antenna system consists of:

- 1 **DELTA 200S** Antenna
- 1 **DELTA 450/900** Antenna
- 1 **AV 205** Distribution box
- 1 **AV 302** Distribution box
- 1 **AH 12** Antenna holder for mounting on a tube of 34mm inner diameter, incl. screws
- 1 **Mounting instruction** German / English

Accessories:

Plugin modules:

- BB** Wideband amplifier for SSB receiver, AM/FM-Radio, Weatherfax
- DAN** Filter amplifier for DECCA navigators
- DGPS** Filter amplifier for Differential-GPS navigators
- LOC** Filter amplifier for LORAN C navigators (please state type)
- LRX** Filter amplifier for LORAN C navigators of MLR ELECTRONIQUE
- NAVT** Filter amplifier for Navtex

Windex-D200 for mounting on the antenna

DIPX 500/800 Duplexer for connection of GSM and 450MHz cellular telephone simultaneously

VK1.05 Connecting cable AV 205 - AV 302 (0.5m)

Antenna cable sets consisting of 1 coaxial cable Aircell-7 with plugs mounted and 1 disconnection set (BNC-standard):

KS1.15 Cable length 15m

KS1.20 Cable length 20m

KS1.25 Cable length 25m

KS1.30 Cable length 30m

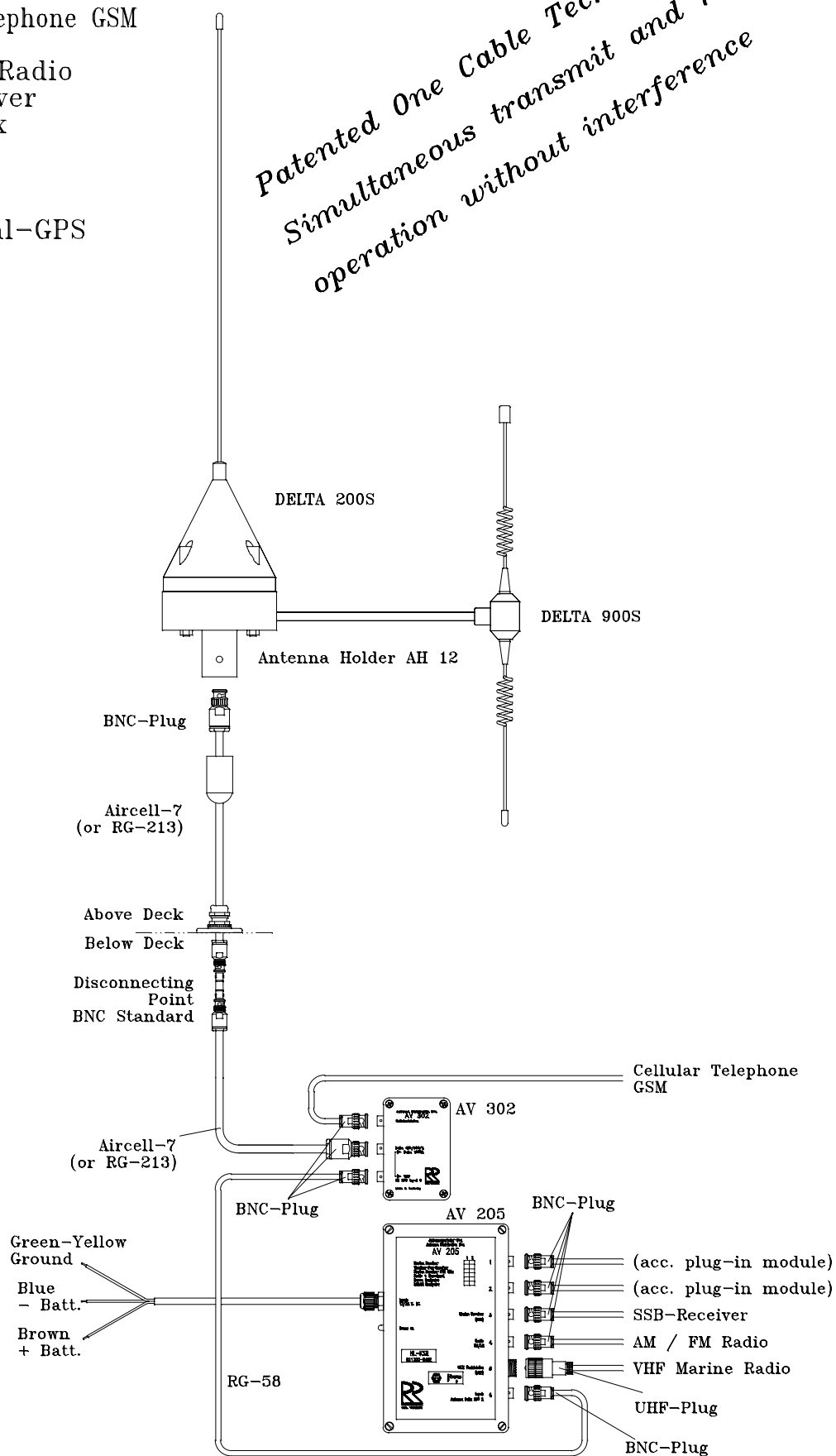
Other lengths upon request.



Antenna System HAWAII

- Cellular Telephone GSM
- VHF
- AM / FM Radio
- SSB Receiver
- Weatherfax
- NAVTEX
- DECCA
- LORAN C
- Differential-GPS

*Patented One Cable Technology
Simultaneous transmit and receive
operation without interference*



Antenna System HAWAII

The following equipment can be connected immediately:

- 1 VHF marine telephone
- 1 AM / FM Radio
- 1 SSB receiver
- 1 Cellular telephone GSM

Up to 2 additional equipment can be connected using optional plugin modules:

- ☐ AM/FM Radio
- ☐ SSB receiver
- ☐ Weatherfax
- ☐ NAVTEX decoder
- ☐ DECCA navigator
- ☐ LORAN C navigator
- ☐ Differential GPS navigator

For the installation 2 coaxial cables (50 Ohm) are needed; we recommend Aircell-7 cable. The equipment is connected to the 12V/24V ship's supply system.

The antenna system consists of:

- 1 **DELTA 200S** Antenna
- 1 **DELTA 900S** Antenna
- 1 **AV 205** Distribution box
- 1 **AV 302** Distribution box
- 1 **AH 12** Antenna holder for mounting on a tube of 34mm inner diameter, incl. screws
- 1 **Mounting instruction** German / English

Accessories:

Plugin modules:

- BB** Wideband amplifier for SSB receiver, AM/FM-Radio, Weatherfax
- DAN** Filter amplifier for DECCA navigators
- DGPS** Filter amplifier for Differential-GPS navigators
- LOC** Filter amplifier for LORAN C navigators (please state type)
- LRX** Filter amplifier for LORAN C navigators of MLR ELECTRONIQUE
- NAVT** Filter amplifier for Navtex

Windex-D200 for mounting on the antenna

VK1.05 Connecting cable AV 205 - AV 302 (0.5m)

Antenna cable sets consisting of 1 coaxial cable Aircell-7 with plugs mounted and 1 disconnection set (BNC-standard):

KS1.15 Cable length 15m

KS1.20 Cable length 20m

KS1.25 Cable length 25m

KS1.30 Cable length 30m

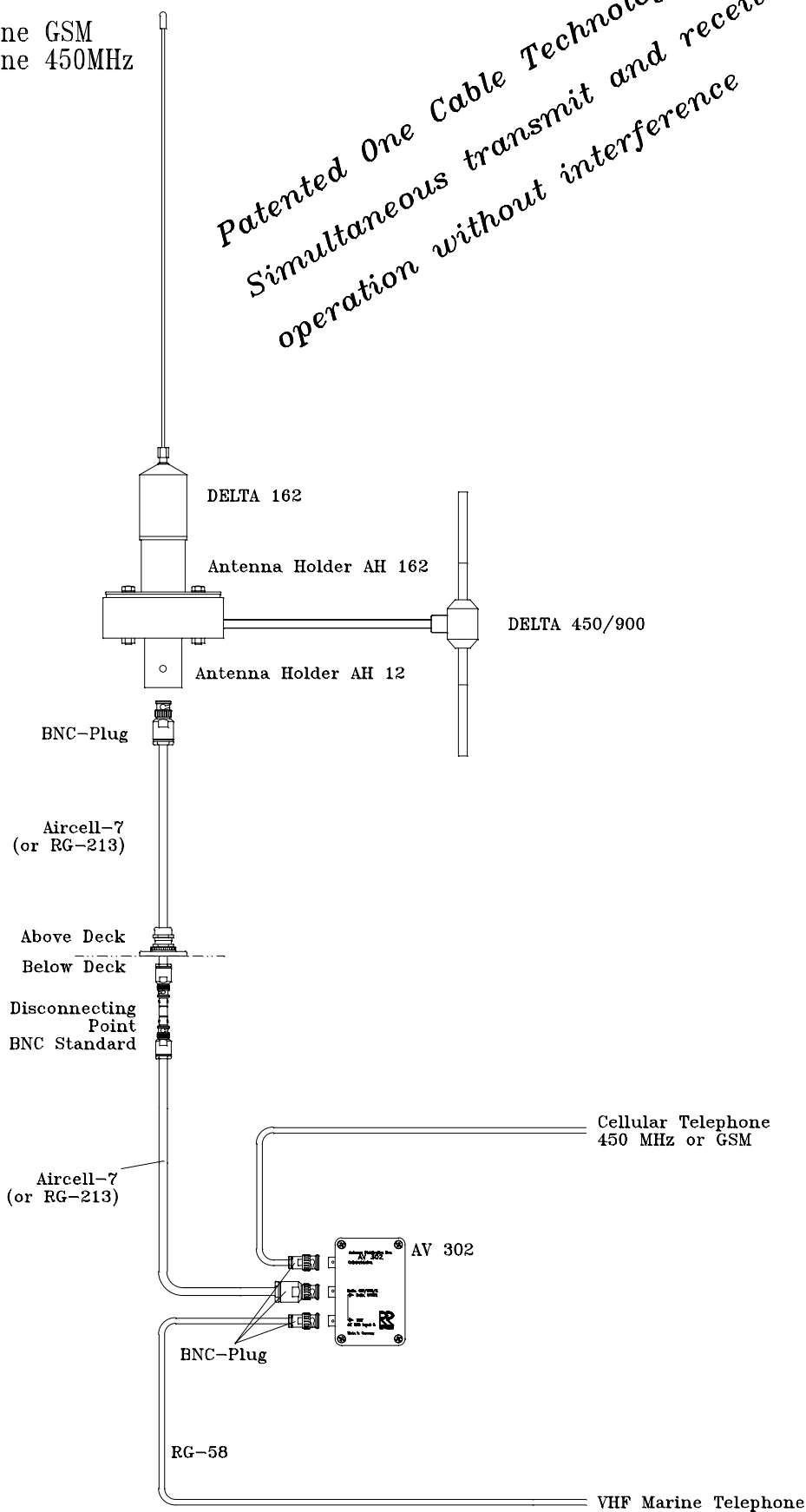
Other lengths upon request.



Antenna System JAMAICA

- Cellular Telephone GSM
- Cellular Telephone 450MHz
- VHF

*Patented One Cable Technology
Simultaneous transmit and receive
operation without interference*



Antenna System JAMAICA

The following equipment can be connected immediately:

- 1 VHF marine telephone
- 1 Cellular telephone GSM and / or 450MHz

For the installation 1 coaxial cable (50 Ohm) is needed; we recommend Aircell-7 cable. No connection to a power supply is needed.

The antenna system consists of:

- 1 **DELTA 162** Antenna
- 1 **DELTA 450/900** Antenna
- 1 **AV 302** Distribution box
- 1 **AH 12** Antenna holder for mounting on a tube of 34mm inner diameter, incl. screws
- 1 **AH 162** Antenna holder for mounting DELTA 162 on top of DELTA 450/900
- 1 **Mounting instruction** German / English

Accessories:

DIPX 500/800 Dulexer for connection of GSM and 450MHz cellular telephone simultaneously

Antenna cable sets consisting of 1 coaxial cable Aircell-7 with plugs mounted and 1 disconnection set (BNC-standard):

KS1.15 Cable length 15m

KS1.20 Cable length 20m

KS1.25 Cable length 25m

KS1.30 Cable length 30m

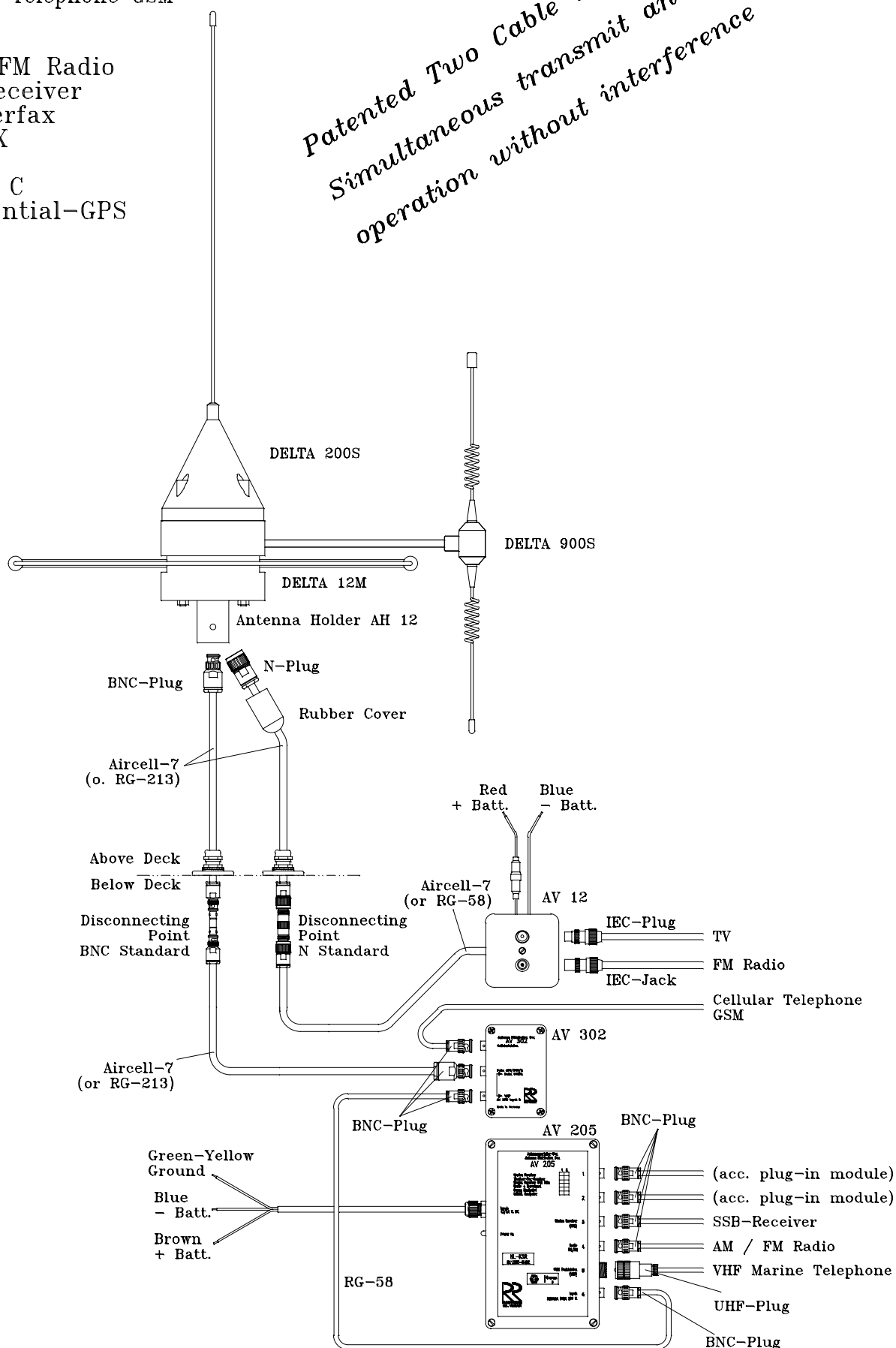
Other lengths upon request.



Antenna System PACIFIC

- Cellular Telephone GSM
- VHF
- TV
- AM / FM Radio
- SSB Receiver
- Weatherfax
- NAVTEX
- DECCA
- LORAN C
- Differential-GPS

Patented Two Cable Technology
Simultaneous transmit and receive
operation without interference



Antenna System PACIFIC

The following equipment can be connected immediately:

- 1 VHF marine telephone
- 1 AM / FM Radio
- 1 SSB receiver
- 1 FM Radio
- 1 TV set
- 1 Cellular telephone GSM

Up to 2 additional equipment can be connected using optional plugin modules:

- ☐ AM/FM Radio
- ☐ SSB receiver
- ☐ Weatherfax
- ☐ NAVTEX decoder
- ☐ DECCA navigator
- ☐ LORAN C navigator
- ☐ Differential GPS navigator

For the installation 2 coaxial cables (50 Ohm) are needed; we recommend Aircell-7 cable. The equipment is connected to the 12V/24V ship's supply system.

The antenna system consists of:

- 1 **DELTA 200S** Antenna
- 1 **DELTA 900S** Antenna
- 1 **DELTA 12M** Antenna
- 1 **AV 205** Distribution box
- 1 **AV 302** Distribution box
- 1 **AV 12** Distribution box
- 1 **AH 12** Antenna holder for mounting on a tube of 34mm inner diameter, incl. screws
- 1 **Mounting instruction** German / English

Accessories:

Plugin modules:

- BB** Wideband amplifier for SSB receiver, AM/FM-Radio, Weatherfax
- DAN** Filter amplifier for DECCA navigators
- DGPS** Filter amplifier for Differential-GPS navigators
- LOC** Filter amplifier for LORAN C navigators (please state type)
- LRX** Filter amplifier for LORAN C navigators of MLR ELECTRONIQUE
- NAVT** Filter amplifier for Navtex

Windex-D200 for mounting on the antenna

AV 14 Distribution box with each 2 outputs TV and FM Radio as replacement for distribution box AV 12

VK1.05 Connecting cable AV 205 - AV 302 (0.5m)

VK2.05 Adaptercable AV12 (if RG-213 is used)

Antenna cable sets consisting of 2 coaxial cables Aircell-7 with plugs mounted and 2 disconnection sets (N-standard and BNC-standard):

KS4.15 Cable length 15m each

KS4.20 Cable length 20m each

KS4.25 Cable length 25m each

KS4.30 Cable length 30m each

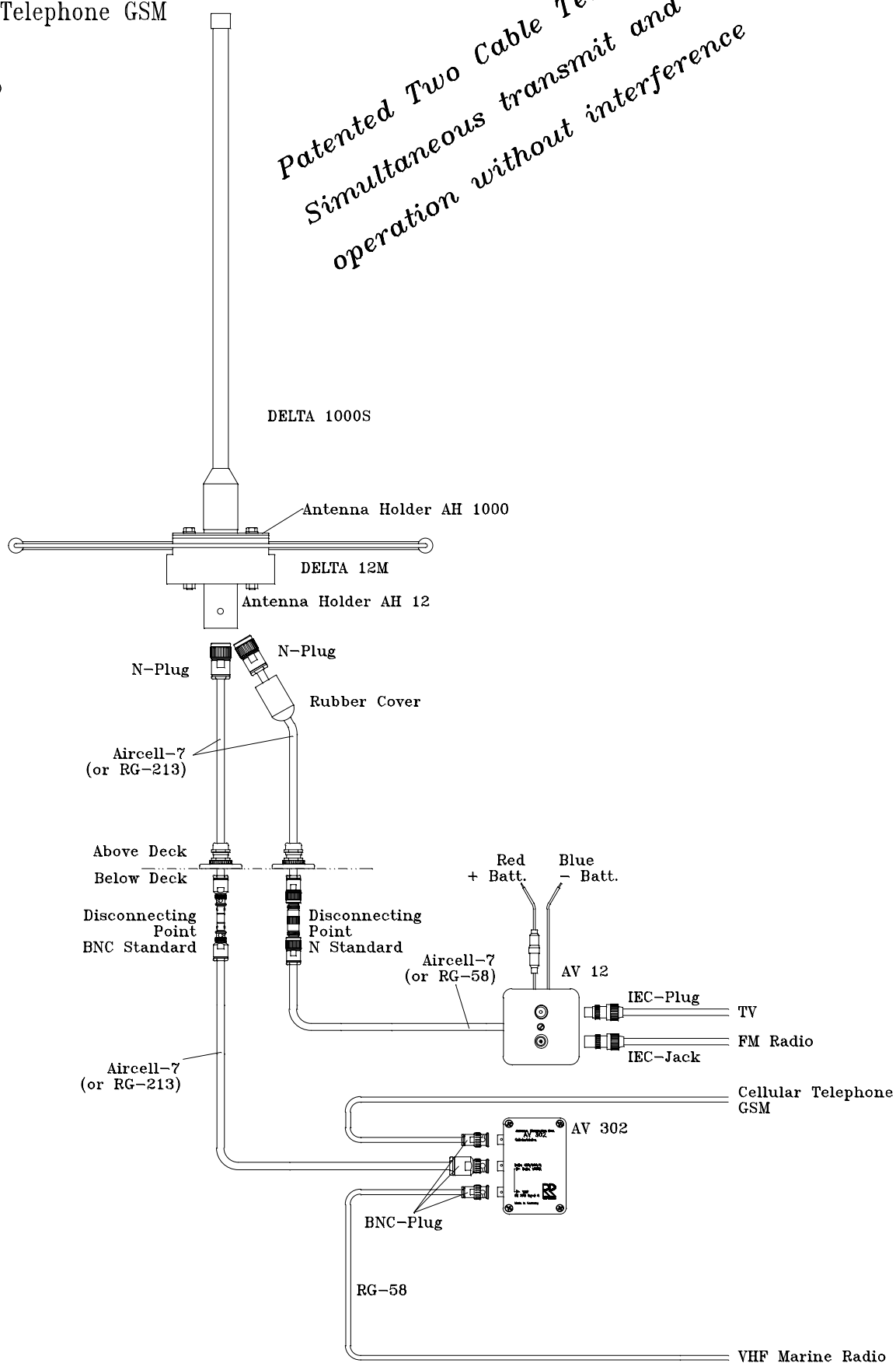
Other lengths upon request.



Antenna System PANAMA

- Cellular Telephone GSM
- VHF
- TV
- FM Radio

Patented Two Cable Technology
Simultaneous transmit and receive
operation without interference



Antenna System PANAMA

The following equipment can be connected immediately:

- 1 VHF marine telephone
- 1 FM Radio
- 1 TV set
- 1 Cellular telephone GSM

For the installation 2 coaxial cables (50 Ohm) are needed; we recommend Aircell-7 cable. The equipment is connected to the 12V/24V ship's supply system.

The antenna system consists of:

- 1 **DELTA 1000S** Antenna
- 1 **DELTA 12M** Antenna
- 1 **AV 302** Distribution box
- 1 **AV 12** Distribution box
- 1 **AH 12** Antenna holder for mounting on a tube of 34mm inner diameter, incl. screws
- 1 **AH 1000** Antenna holder for mounting DELTA 1000S on top of DELTA 12M
- 1 **Mounting instruction** German / English

Accessories:

AV 14 Distribution box with each 2 outputs TV and FM Radio as replacement for distribution box AV 12

Antenna cable sets consisting of 2 coaxial cables Aircell-7 with plugs mounted and 2 disconnection sets (N-standard and BNC-standard):

KS6.15 Cable length 15m each

KS6.20 Cable length 20m each

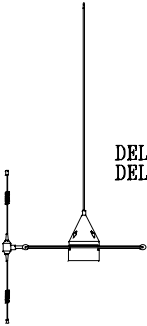
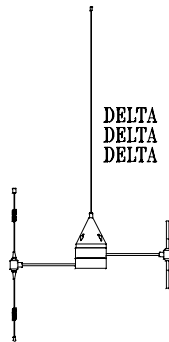
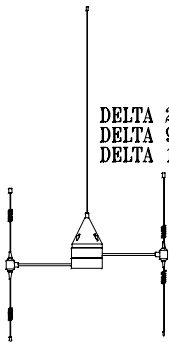
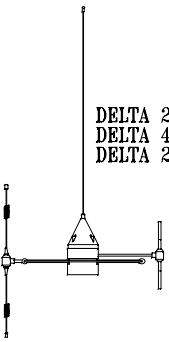
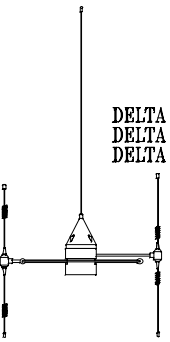
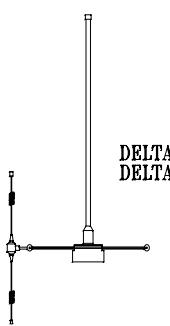
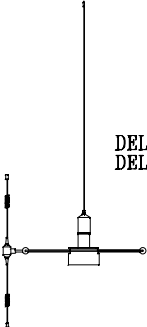
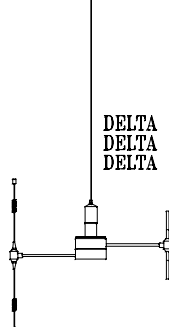
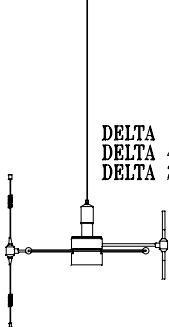
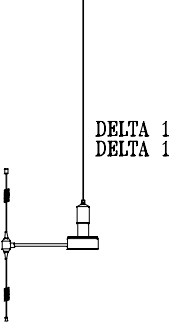
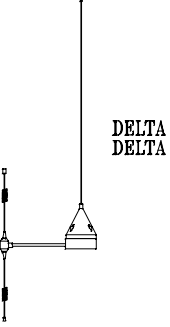
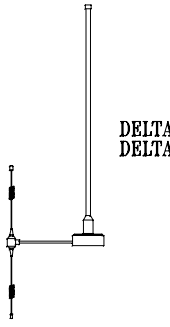
KS6.25 Cable length 25m each

KS6.30 Cable length 30m each

Other lengths upon request.



New RR Antenna Systems with DSC

DSC-BISCAYA  <p>DELTA 200 S DELTA 22 M</p> <ul style="list-style-type: none"> ● VHF with DSC ● TV ● AM / FM Radio ● SSB Receiver □ Weatherfax □ NAVTEX □ DECCA □ LORAN C □ Differential-GPS <p>● Two Cable Technology</p>	DSC-GIBRALTAR  <p>DELTA 200 S DELTA 450/900 DELTA 150 S</p> <ul style="list-style-type: none"> ● Cellular Telephone GSM ● Cellular Telephone 450MHz ● VHF with DSC ● AM / FM Radio ● SSB Receiver □ Weatherfax □ NAVTEX □ DECCA □ LORAN C □ Differential-GPS <p>● Two Cable Technology</p>	DSC-HAWAII  <p>DELTA 200 S DELTA 900 S DELTA 150 S</p> <ul style="list-style-type: none"> ● Cellular Telephone GSM ● VHF with DSC ● AM / FM Radio ● SSB Receiver □ Weatherfax □ NAVTEX □ DECCA □ LORAN C □ Differential-GPS <p>● Two Cable Technology</p>	DSC-ATLANTIC  <p>DELTA 200 S DELTA 450/900 DELTA 22 M</p> <ul style="list-style-type: none"> ● Cellular Telephone GSM ● Cellular Telephone 450MHz ● VHF with DSC ● TV ● AM / FM Radio ● SSB Receiver □ Weatherfax □ NAVTEX □ DECCA □ LORAN C □ Differential-GPS <p>● Two Cable Technology</p>	DSC-PACIFIC  <p>DELTA 200 S DELTA 900 S DELTA 22 M</p> <ul style="list-style-type: none"> ● Cellular Telephone GSM ● VHF with DSC ● TV ● AM / FM Radio ● SSB Receiver □ Weatherfax □ NAVTEX □ DECCA □ LORAN C □ Differential-GPS <p>● Two Cable Technology</p>	DSC-PANAMA  <p>DELTA 1000S DELTA 22 M</p> <ul style="list-style-type: none"> ● Cellular Telephone GSM ● VHF with DSC ● TV ● FM Radio <p>● Two Cable Technology</p>
DSC-ANTIGUA  <p>DELTA 162 DELTA 22 M</p> <ul style="list-style-type: none"> ● VHF with DSC ● TV ● FM Radio <p>● Two Cable Technology</p>	DSC-JAMAICA  <p>DELTA 162 DELTA 450/900 DELTA 150 S</p> <ul style="list-style-type: none"> ● Cellular Telephone GSM ● Cellular Telephone 450MHz ● VHF with DSC <p>● Two Cable Technology</p>	DSC-CARIBIC  <p>DELTA 162 DELTA 450/900 DELTA 22 M</p> <ul style="list-style-type: none"> ● Cellular Telephone GSM ● Cellular Telephone 450MHz ● VHF with DSC ● TV ● FM Radio <p>● Two Cable Technology</p>	DSC-TAHITI  <p>DELTA 162 DELTA 150 S</p> <ul style="list-style-type: none"> ● VHF with DSC <p>● Two Cable Technology</p>	DSC-MALTA  <p>DELTA 200 S DELTA 150 S</p> <ul style="list-style-type: none"> ● VHF with DSC ● AM / FM Radio ● SSB Receiver □ Weatherfax □ NAVTEX □ DECCA □ LORAN C □ Differential-GPS <p>● Two Cable Technology</p>	DSC-BAHAMAS  <p>DELTA 1000S DELTA 150 S</p> <ul style="list-style-type: none"> ● Cellular Telephone GSM ● VHF with DSC <p>● Two Cable Technology</p>

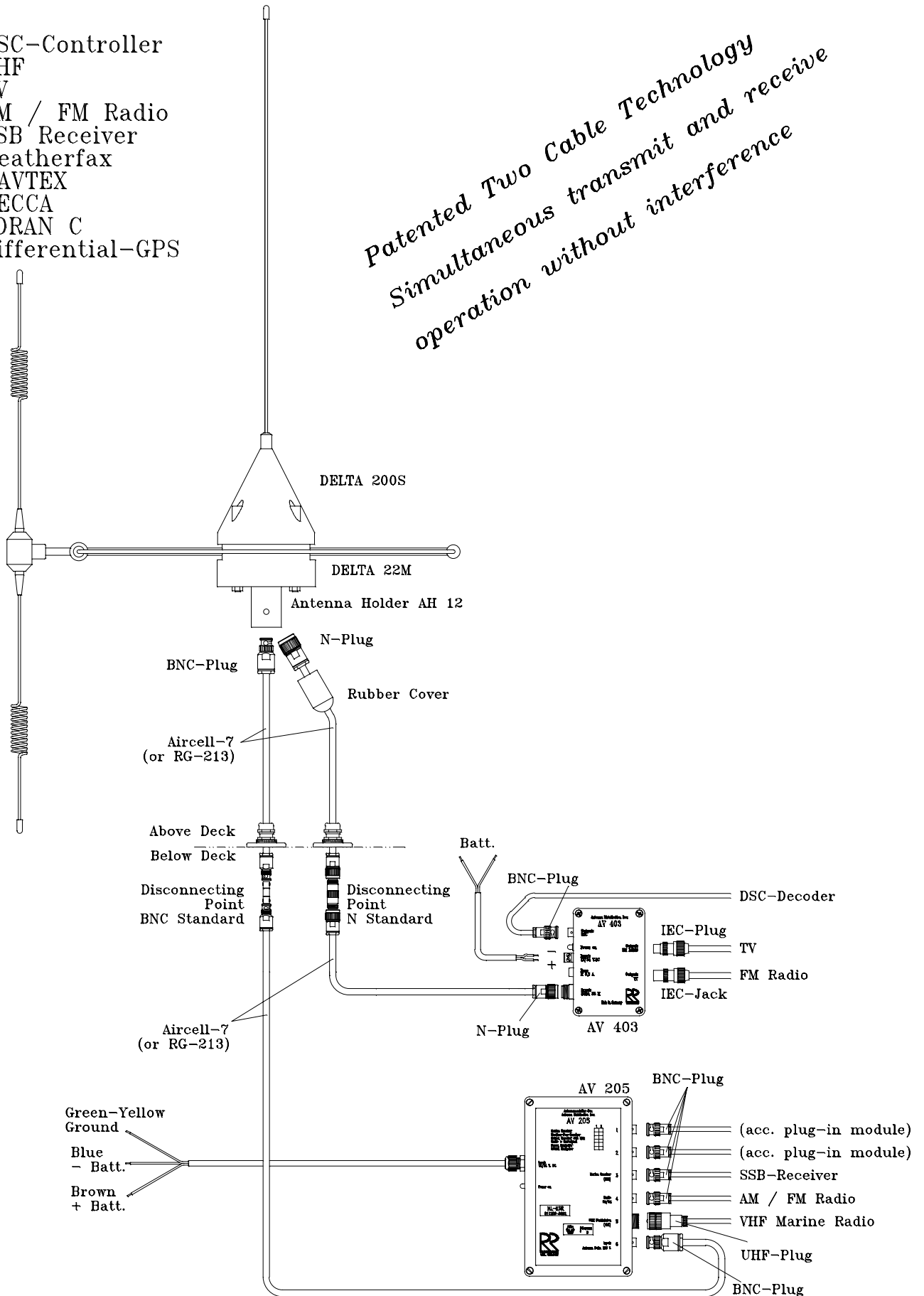
● = Standard

□ = Option

Antenna System DSC-BISCAYA

- DSC-Controller
- VHF
- TV
- AM / FM Radio
- SSB Receiver
- Weatherfax
- NAVTEX
- DECCA
- LORAN C
- Differential-GPS

*Patented Two Cable Technology
Simultaneous transmit and receive
operation without interference*



Antenna System DSC-BISCAYA

The following equipment can be connected immediately:

- 1 VHF marine telephone
- 1 VHF-DSC-Decoder
- 1 AM / FM Radio
- 1 SSB receiver
- 1 FM Radio
- 1 TV set

Up to 2 additional equipment can be connected using optional plugin modules:

- ☐ AM/FM Radio
- ☐ SSB receiver
- ☐ Weatherfax
- ☐ NAVTEX decoder
- ☐ DECCA navigator
- ☐ LORAN C navigator
- ☐ Differential GPS navigator
- ☐ Shortwave DSC decoder

For the installation 2 coaxial cables (50 Ohm) are needed; we recommend Aircell-7 cable. The equipment is connected to the 12V/24V ship's supply system.

The antenna system consists of:

- 1 **DELTA 200S** Antenna
- 1 **DELTA 22M** Antenna
- 1 **AV 205** Distribution box
- 1 **AV 403** Distribution box
- 1 **AH 12** Antenna holder for mounting on a tube of 34mm inner diameter, incl. screws
- 1 **Mounting instruction** German / English

Accessories:

Plugin modules:

- | | |
|--------------|--|
| BB | Wideband amplifier for SSB receiver, AM/FM-Radio, Weatherfax, Shortwave DSC |
| BB-AM | Wideband amplifier with 10 dB gain for SSB receiver, Weatherfax, Shortwave DSC |
| DAN | Filter amplifier for DECCA navigators |
| DGPS | Filter amplifier for Differential-GPS navigators |
| LOC | Filter amplifier for LORAN C navigators (please state type) |
| LRX | Filter amplifier for LORAN C navigators of MLR ELECTRONIQUE |
| NAVT | Filter amplifier for Navtex |

Windex-D200 for mounting on the antenna

P0 Antenna outlet to connect both TV *and* FM radio to output TV or FM

Antenna cable sets consisting of 2 coaxial cables Aircell-7 with plugs mounted and 2 disconnection sets (N-standard and BNC-standard):

- | | |
|----------------|-----------------------|
| KS11.15 | Cable length 15m each |
| KS11.20 | Cable length 20m each |
| KS11.25 | Cable length 25m each |
| KS11.30 | Cable length 30m each |

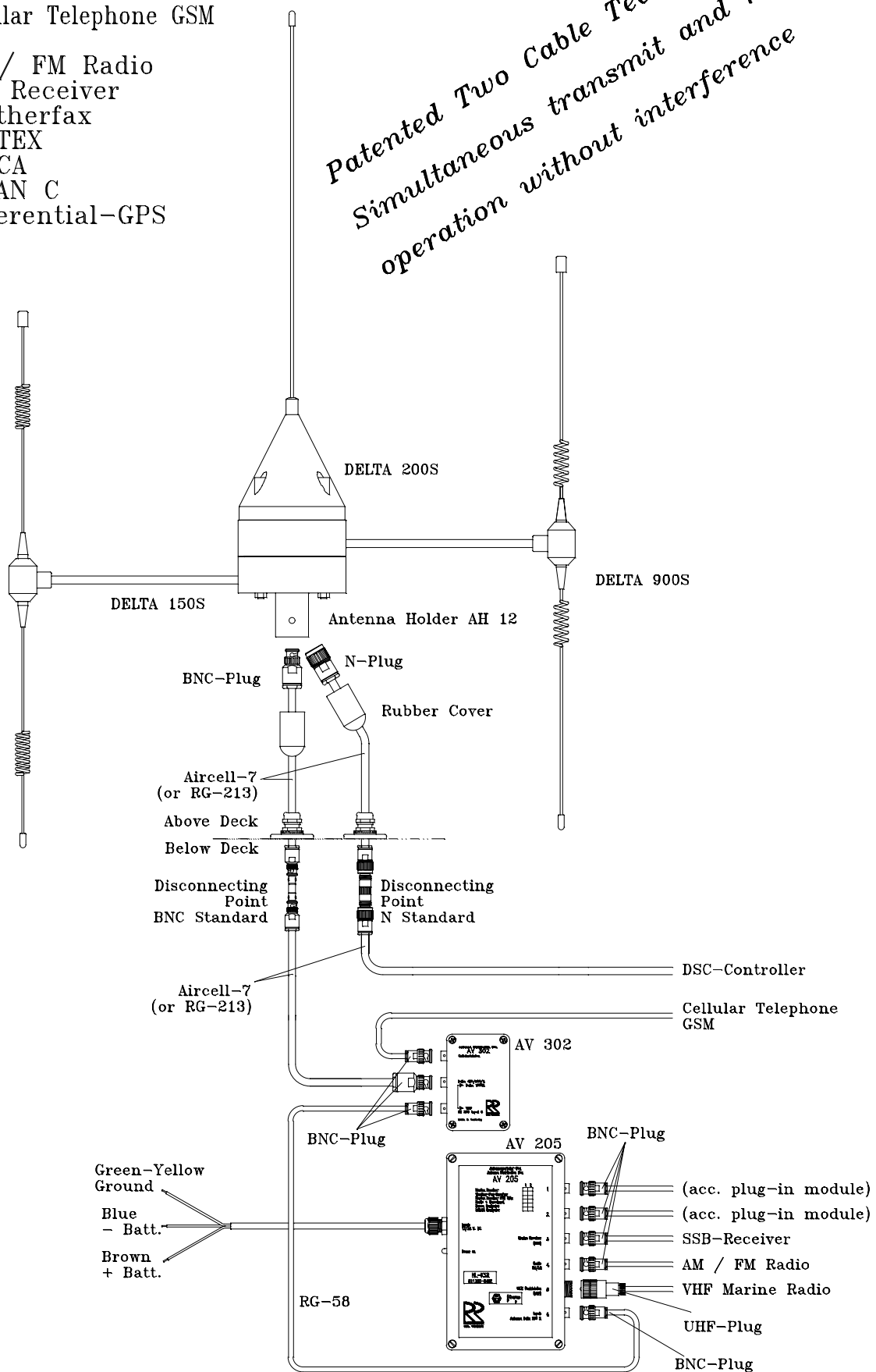
Other lengths upon request.



Antenna System DSC-HAWAII

- DSC-Controller
- Cellular Telephone GSM
- VHF
- AM / FM Radio
- SSB Receiver
- ☐ Weatherfax
- ☐ NAVTEX
- ☐ DECCA
- ☐ LORAN C
- ☐ Differential-GPS

Patented Two Cable Technology
Simultaneous transmit and receive
operation without interference



Antenna System DSC-HAWAII

The following equipment can be connected immediately:

- 1 VHF marine telephone
- 1 VHF-DSC-Decoder
- 1 AM / FM Radio
- 1 SSB receiver
- 1 Cellular telephone GSM

Up to 2 additional equipment can be connected using optional plugin modules:

- ☐ AM/FM Radio
- ☐ SSB receiver
- ☐ Weatherfax
- ☐ NAVTEX decoder
- ☐ DECCA navigator
- ☐ LORAN C navigator
- ☐ Differential GPS navigator
- ☐ Shortwave DSC decoder

For the installation 2 coaxial cables (50 Ohm) are needed; we recommend Aircell-7 cable. The equipment is connected to the 12V/24V ship's supply system.

The antenna system consists of:

- 1 **DELTA 200 S** Antenna
- 1 **DELTA 900 S** Antenna
- 1 **DELTA 150 S** Antenna
- 1 **AV 205** Distribution box
- 1 **AV 302** Distribution box
- 1 **AH 12** Antenna holder for mounting on a tube of 34mm inner diameter, incl. screws
- 1 **Mounting instruction** German / English

Accessories:

Plugin modules:

BB	Wideband amplifier for SSB receiver, AM/FM-Radio, Weatherfax, Shortwave DSC
BB-AM	Wideband amplifier with 10 dB gain for SSB receiver, Weatherfax, Shortwave DSC
DAN	Filter amplifier for DECCA navigators
DGPS	Filter amplifier for Differential-GPS navigators
LOC	Filter amplifier for LORAN C navigators (please state type)
LRX	Filter amplifier for LORAN C navigators of MLR ELECTRONIQUE
NAVT	Filter amplifier for Navtex

Windex-D200 for mounting on the antenna

VK1.05 Connecting cable AV 205 - AV 302 (0.5m)

Antenna cable sets consisting of 2 coaxial cables Aircell-7 with plugs mounted and 2 disconnection sets (N-standard and BNC-standard):

KS12.15	Cable length 15m each
KS12.20	Cable length 20m each
KS12.25	Cable length 25m each
KS12.30	Cable length 30m each

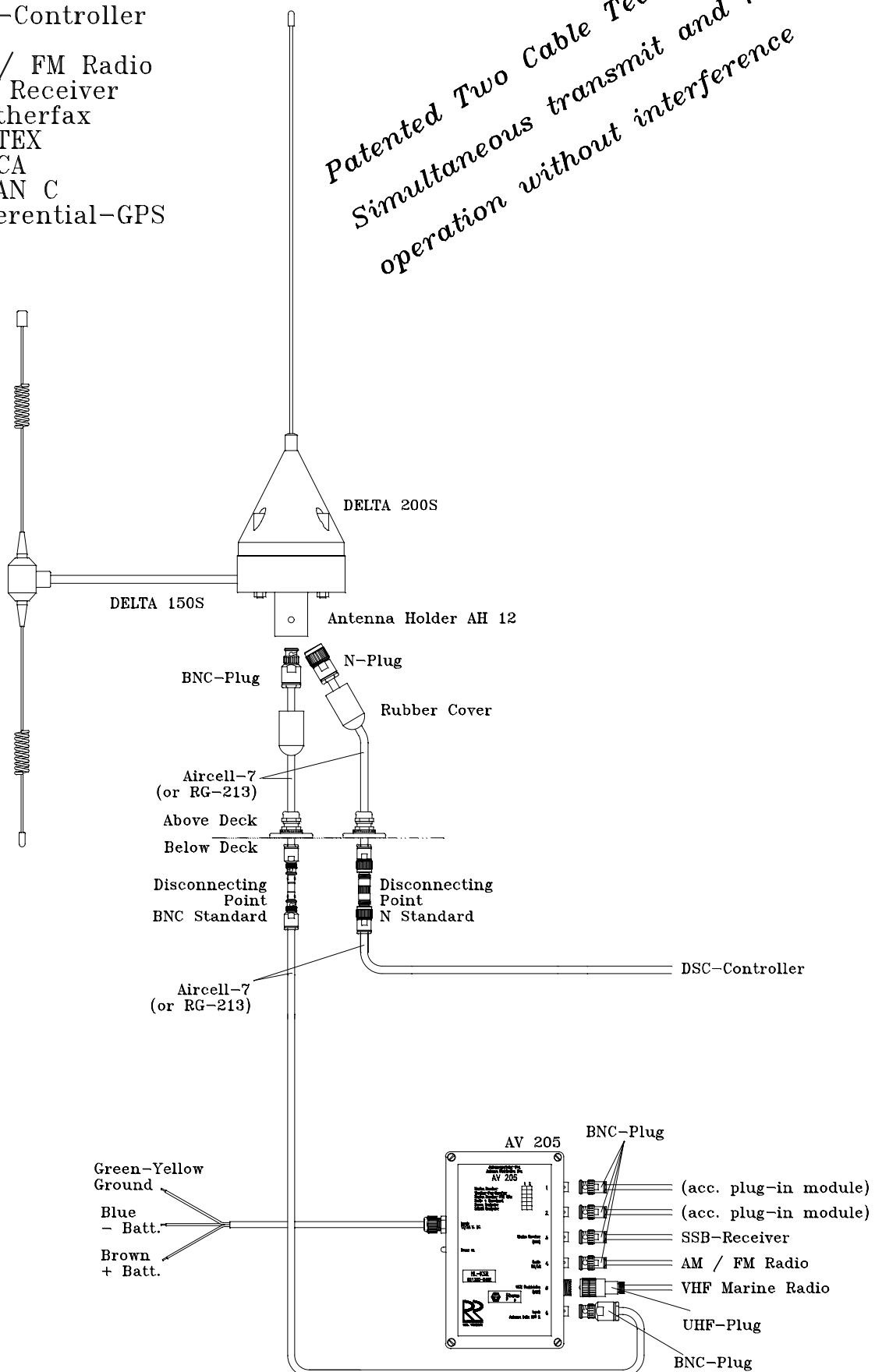
Other lengths upon request.



Antenna System DSC-MALTA

- DSC-Controller
- VHF
- AM / FM Radio
- SSB Receiver
- ☐ Weatherfax
- ☐ NAVTEX
- ☐ DECCA
- ☐ LORAN C
- ☐ Differential-GPS

Patented Two Cable Technology
Simultaneous transmit and receive
operation without interference



Antenna System DSC-MALTA

The following equipment can be connected immediately:

- 1 VHF marine telephone
- 1 VHF-DSC-Decoder
- 1 AM / FM Radio
- 1 SSB receiver

Up to 2 additional equipment can be connected using optional plugin modules:

- ☐ AM/FM Radio
- ☐ SSB receiver
- ☐ Weatherfax
- ☐ NAVTEX decoder
- ☐ DECCA navigator
- ☐ LORAN C navigator
- ☐ Differential GPS navigator
- ☐ Shortwave DSC decoder

For the installation 2 coaxial cables (50 Ohm) are needed; we recommend Aircell-7 cable. The equipment is connected to the 12V/24V ship's supply system.

The antenna system consists of:

- 1 **DELTA 200 S** Antenna
- 1 **DELTA 150 S** Antenna
- 1 **AV 205** Distribution box
- 1 **AH 12** Antenna holder for mounting on a tube of 34mm inner diameter, incl. screws
- 1 **Mounting instruction** German / English

Accessories:

Plugin modules:

BB	Wideband amplifier for SSB receiver, AM/FM-Radio, Weatherfax, Shortwave DSC
BB-AM	Wideband amplifier with 10 dB gain for SSB receiver, Weatherfax, Shortwave DSC
DAN	Filter amplifier for DECCA navigators
DGPS	Filter amplifier for Differential-GPS navigators
LOC	Filter amplifier for LORAN C navigators (please state type)
LRX	Filter amplifier for LORAN C navigators of MLR ELECTRONIQUE
NAVT	Filter amplifier for Navtex

Windex-D200 for mounting on the antenna

Antenna cable sets consisting of 2 coaxial cables Aircell-7 with plugs mounted and 2 disconnection sets (N-standard and BNC-standard):

- KS12.15** Cable length 15m each
- KS12.20** Cable length 20m each
- KS12.25** Cable length 25m each
- KS12.30** Cable length 30m each

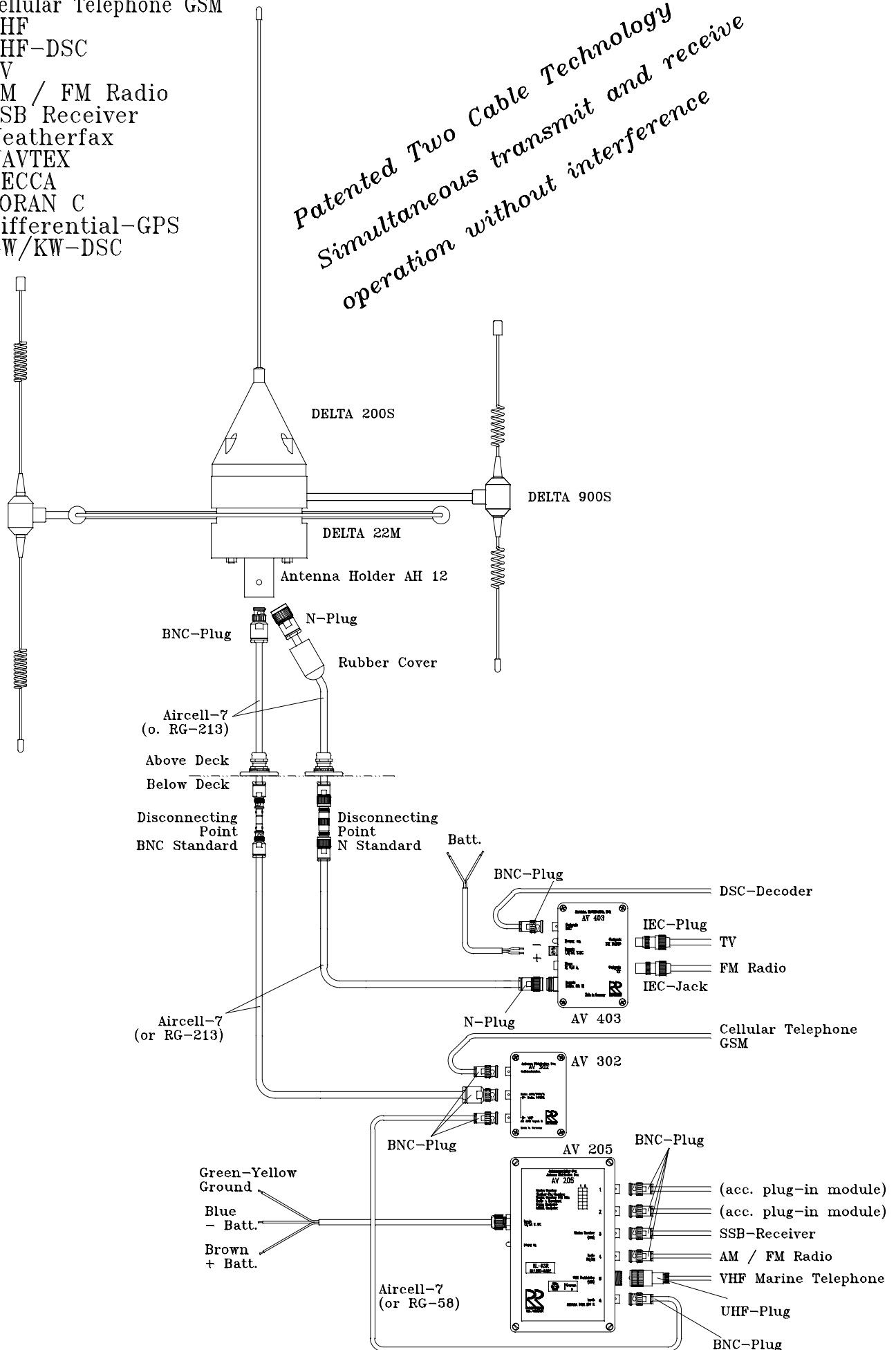
Other lengths upon request.



Antenna System DSC-PACIFIC

- Cellular Telephone GSM
- VHF
- VHF-DSC
- TV
- AM / FM Radio
- SSB Receiver
- ☐ Weatherfax
- ☐ NAVTEX
- ☐ DECCA
- ☐ LORAN C
- ☐ Differential-GPS
- ☐ GW/KW-DSC

Patented Two Cable Technology
Simultaneous transmit and receive
operation without interference



Antenna System DSC-PACIFIC

The following equipment can be connected immediately:

- 1 VHF marine telephone
- 1 VHF-DSC-Decoder
- 1 AM / FM Radio
- 1 SSB receiver
- 1 FM Radio
- 1 TV set
- 1 Cellular telephone GSM

Up to 2 additional equipment can be connected using optional plugin modules:

- ☐ AM/FM Radio
- ☐ SSB receiver
- ☐ Weatherfax
- ☐ NAVTEX decoder
- ☐ DECCA navigator
- ☐ LORAN C navigator
- ☐ Differential GPS navigator
- ☐ Shortwave DSC decoder

For the installation 2 coaxial cables (50 Ohm) are needed; we recommend Aircell-7 cable. The equipment is connected to the 12V/24V ship's supply system.

The antenna system consists of:

- 1 **DELTA 200S** Antenna
- 1 **DELTA 900S** Antenna
- 1 **DELTA 22M** Antenna
- 1 **AV 205** Distribution box
- 1 **AV 302** Distribution box
- 1 **AV 403** Distribution box
- 1 **AH 12** Antenna holder for mounting on a tube of 34mm inner diameter, incl. screws
- 1 **Mounting instruction** German / English

Accessories:

Plugin modules:

- | | |
|--------------|--|
| BB | Wideband amplifier for SSB receiver, AM/FM-Radio, Weatherfax, Shortwave DSC |
| BB-AM | Wideband amplifier with 10 dB gain for SSB receiver, Weatherfax, Shortwave DSC |
| DAN | Filter amplifier for DECCA navigators |
| DGPS | Filter amplifier for Differential-GPS navigators |
| LOC | Filter amplifier for LORAN C navigators (please state type) |
| LRX | Filter amplifier for LORAN C navigators of MLR ELECTRONIQUE |
| NAVT | Filter amplifier for Navtex |

Windex-D200 for mounting on the antenna

P0 Antenna outlet to connect both TV *and* FM radio to output TV or FM


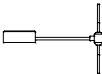
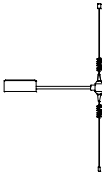
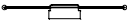


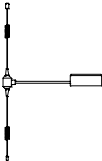
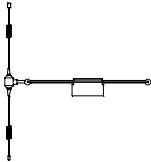

VK1.05 Connecting cable AV 205 - AV 302 (0.5m)

Antenna cable sets consisting of 2 coaxial cables Aircell-7 with plugs mounted and 2 disconnection sets (N-standard and BNC-standard):

- | | |
|----------------|-----------------------|
| KS11.15 | Cable length 15m each |
| KS11.20 | Cable length 20m each |
| KS11.25 | Cable length 25m each |
| KS11.30 | Cable length 30m each |

Other lengths upon request.

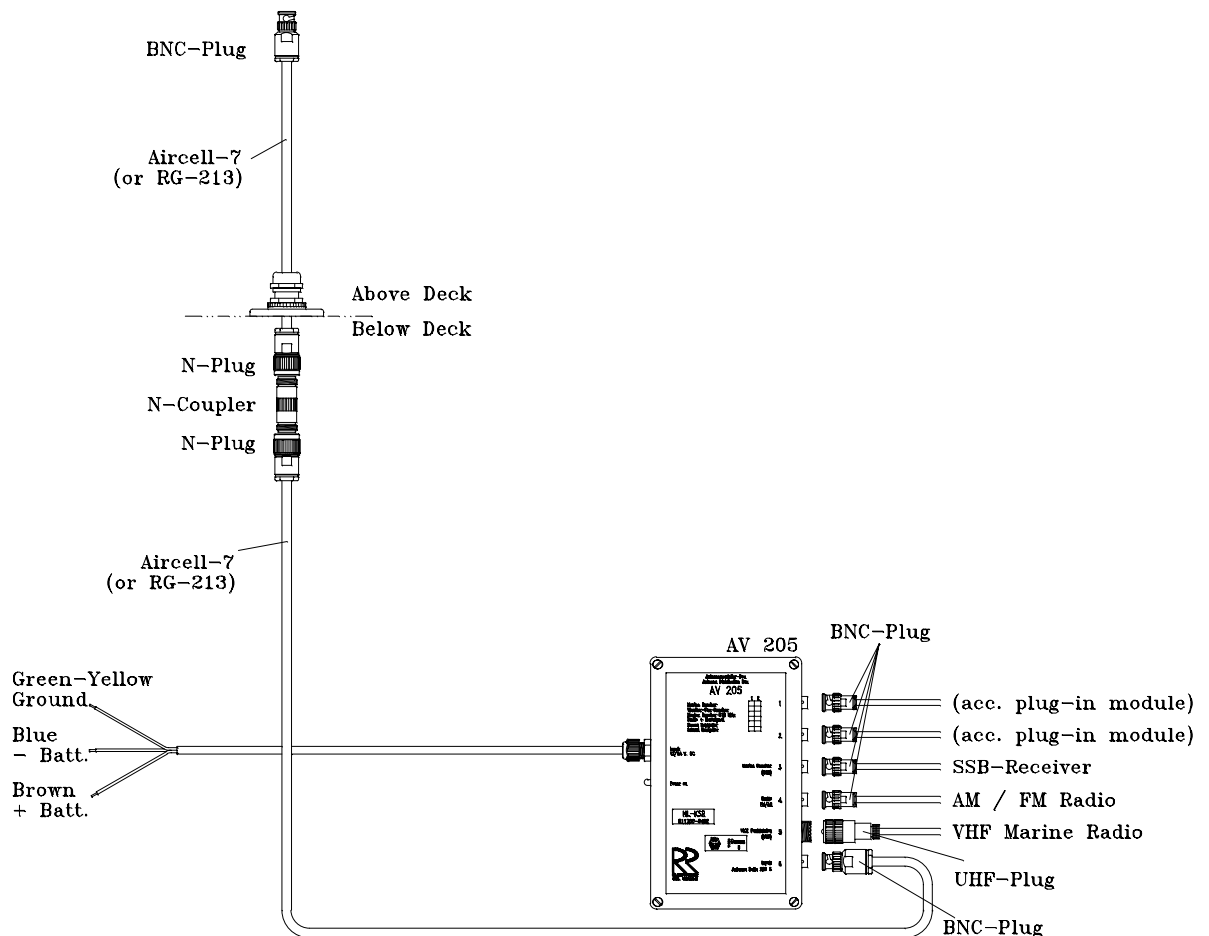
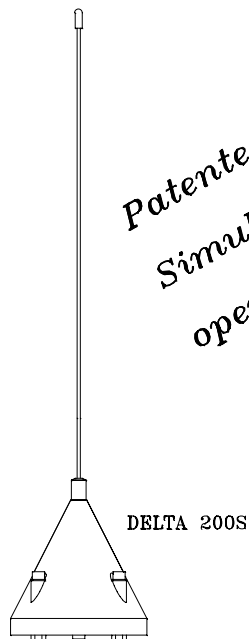


<p>DELTA 200S</p>  <ul style="list-style-type: none"> ● VHF ● AM / FM Radio ● SSB Receiver □ Weatherfax □ NAVTEX □ DECCA □ LORAN C □ Differential-GPS ● One Cable Technology 	<p>DELTA 450/900</p>  <ul style="list-style-type: none"> ● Cellular Telephone GSM ● Cellular Telephone 450MHz ● One Cable Technology 	<p>DELTA 900S</p>  <ul style="list-style-type: none"> ● Cellular Telephone GSM ● One Cable Technology 	<p>DELTA 12M</p>  <ul style="list-style-type: none"> ● TV ● FM Radio ● One Cable Technology 	<p>DELTA 1000S</p>  <ul style="list-style-type: none"> ● Cellular Telephone GSM ● VHF ● One Cable Technology
<p>DELTA 162</p>  <ul style="list-style-type: none"> ● VHF 	<p>DELTA 150S</p>  <ul style="list-style-type: none"> ● DSC Decoder 	<p>DELTA 22M</p>  <ul style="list-style-type: none"> ● TV ● FM Radio ● DSC Decoder 	<p>- All antennas: <i>MADE IN GERMANY</i> with type approval</p> <p>- Saltwater-proof design: stainless steel 316 polished material</p> <p>- Antennas successfully in use worldwide for years, e.g.: Whitbread race, "INTRUM JUSTITIA"</p> 	

Antenna System DELTA 200 S

- VHF
- AM / FM Radio
- SSB Receiver
- Weatherfax
- NAVTEX
- DECCA
- LORAN C
- Differential-GPS

Patented One Cable Technology
Simultaneous transmit and receive
operation without interference



Antenna System DELTA 200 S

The following equipment can be connected immediately:

- 1 VHF marine telephone
- 1 AM / FM Radio
- 1 SSB receiver

Up to 2 additional equipment can be connected using optional plugin modules:

- ☐ AM/FM Radio
- ☐ SSB receiver
- ☐ Weatherfax
- ☐ NAVTEX decoder
- ☐ DECCA navigator
- ☐ LORAN C navigator
- ☐ Differential GPS navigator

For the installation 1 coaxial cable (50 Ohm) is needed; we recommend Aircell-7 cable. The equipment is connected to the 12V/24V ship's supply system.

The antenna system consists of:

- 1 **DELTA 200S** Antenna
- 1 **AV 205** Distribution box
- 1 **Set of screws** M6 x 50
- 1 **Mounting instruction** German / English

Accessories:

AH 12 Antenna holder for mounting on a tube of 34mm inner diameter

Plugin modules:

- BB** Wideband amplifier for SSB receiver, AM/FM-Radio, Weatherfax
- DAN** Filter amplifier for DECCA navigators
- DGPS** Filter amplifier for Differential-GPS navigators
- LOC** Filter amplifier for LORAN C navigators (please state type)
- LRX** Filter amplifier for LORAN C navigators of MLR ELECTRONIQUE
- NAVT** Filter amplifier for Navtex

Windex-D200 for mounting on the antenna

Antenna cable sets consisting of 1 coaxial cable Aircell-7 with plugs mounted and 1 disconnection set (BNC-standard):

KS1.15 Cable length 15m

KS1.20 Cable length 20m

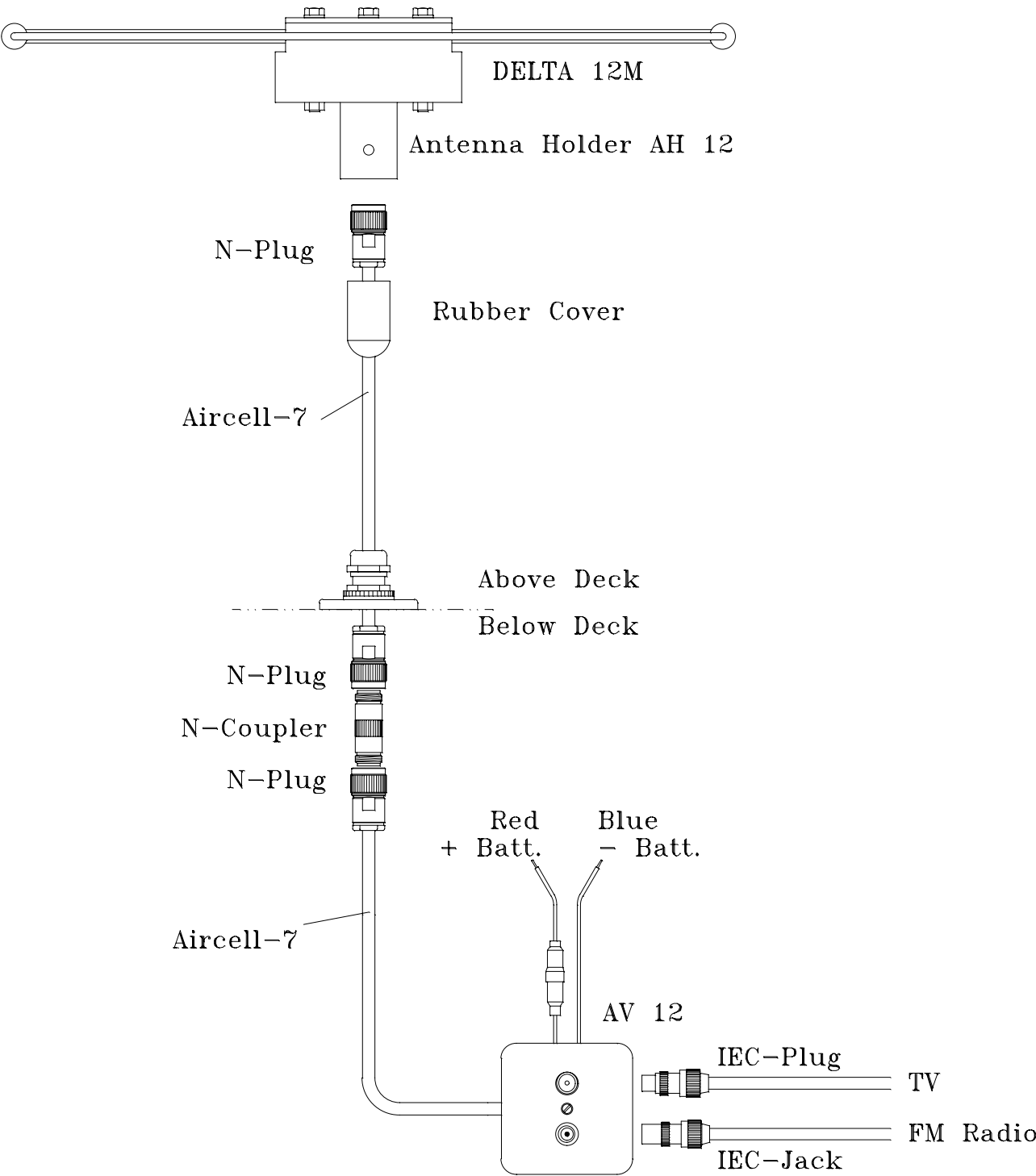
KS1.25 Cable length 25m

KS1.30 Cable length 30m

Other lengths upon request.



Antenna System DELTA 12 M



Antenna System DELTA 12 M

The following equipment can be connected:

- 1 FM Radio
- 1 TV set

For the installation 1 coaxial cable (50 Ohm) is needed; we recommend Aircell-7 cable. The equipment is connected to the 12V/24V ship's supply system.

The antenna system consists of:

- 1 **DELTA 12M** Antenna
- 1 **AV 12** Distribution box
- 1 **AH 12** Antenna holder for mounting on a tube of 34mm inner diameter, incl. screws
- 1 **Mounting instruction** German / English

Accessories:

AV 14 Distribution box with each 2 outputs TV and FM Radio as replacement for distribution box AV 12

VK2.05 Adaptercable AV12 (if RG-213 is used)

Antenna cable sets consisting of 1 coaxial cable Aircell-7 with plug mounted and 1 disconnection set (N-standard):

KS2.15 Cable length 15m each

KS2.20 Cable length 20m each

KS2.25 Cable length 25m each

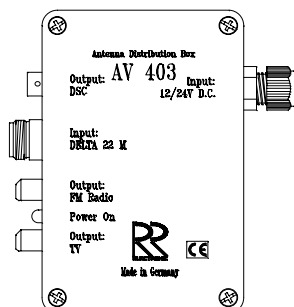
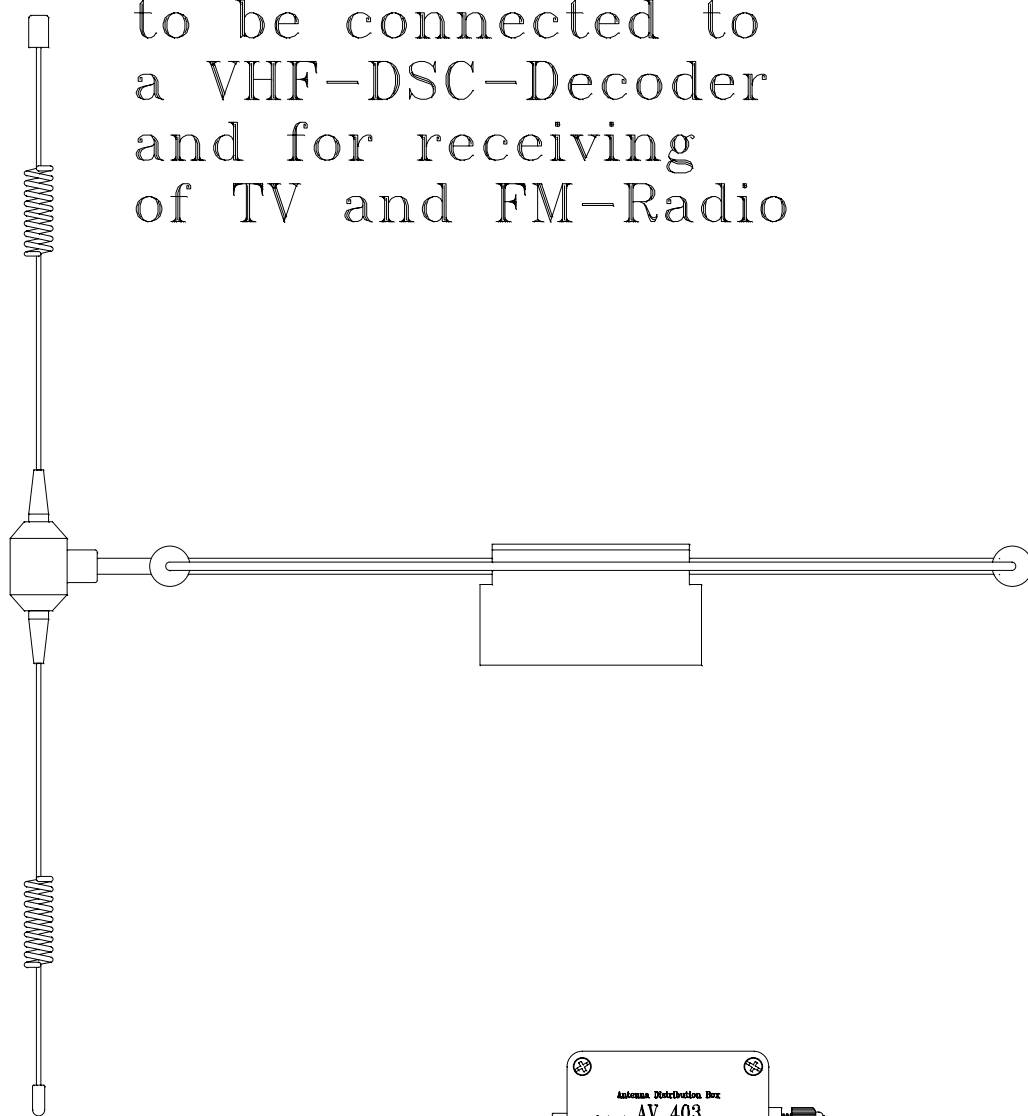
KS2.30 Cable length 30m each

Other lengths upon request.



DELTA 22 M

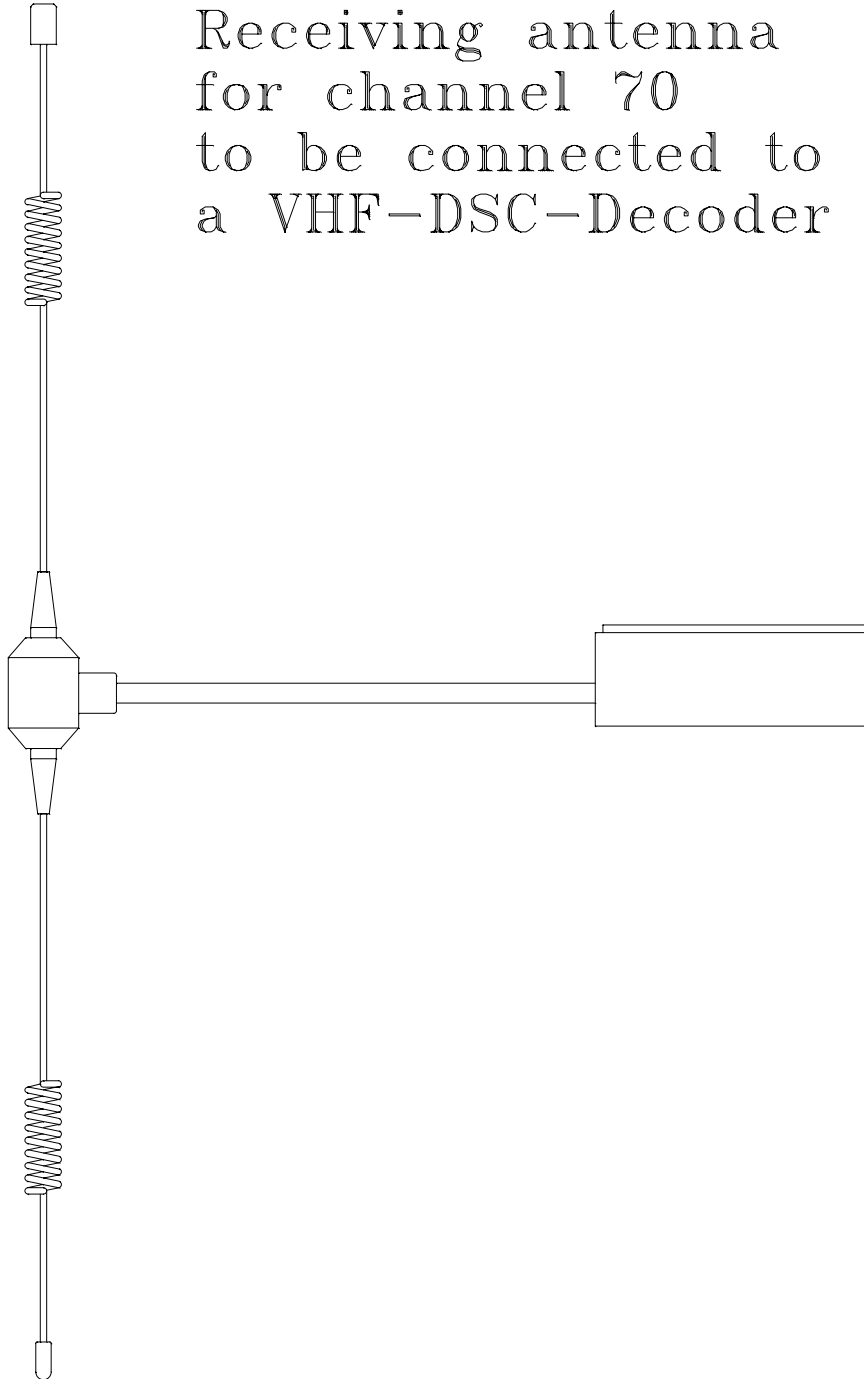
Receiving antenna
for channel 70
to be connected to
a VHF-DSC-Decoder
and for receiving
of TV and FM-Radio



AV 403

DELTA 150 S

Receiving antenna
for channel 70
to be connected to
a VHF-DSC-Decoder



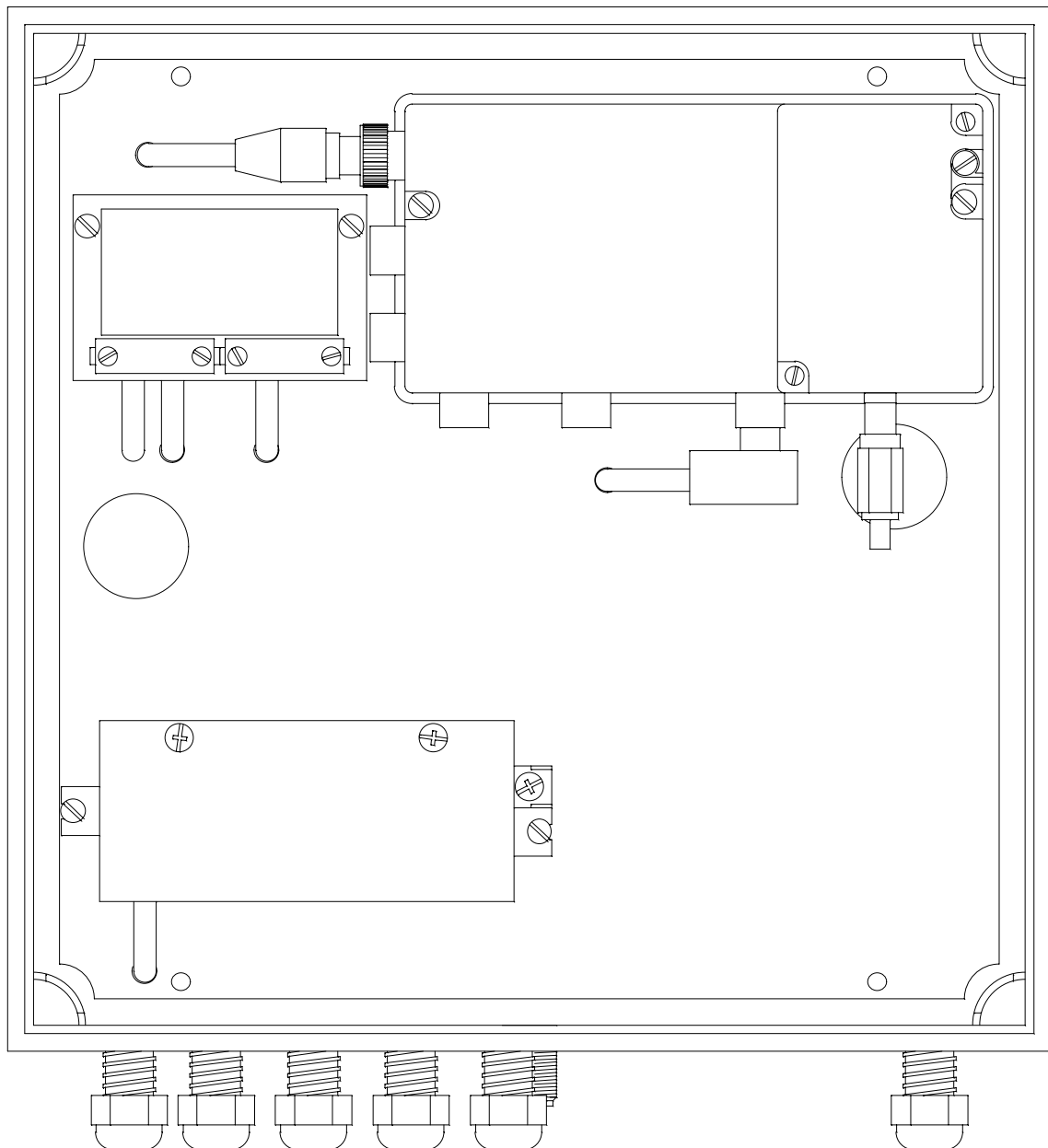
AM/FM/TV Amplifier / Splitter

RR 404

4 Wideband outputs 150kHz – 862 MHz
for extension of antenna systems

BISCAYA, ATLANTIC, PACIFIC,

SUMATRA, JAVA



AM / FM / TV Amplifier / Splitter

RR 404

for extension of antenna systems BISCAYA, ATLANTIC, PACIFIC, SUMATRA, JAVA with 4 wideband outputs 150 kHz - 862 MHz.

For the AM frequency range the amplifier RR 404 is connected to the antenna DELTA 200 S via the distribution box AV 205 or with the antenna DELTA 100 R or DELTA 100 S via the distribution box AV 107 SAT. A module BBAM is inserted into the distribution box AV 205 or AV 107 SAT.

For the FM / TV frequency range the amplifier RR 404 is connected to the antenna DELTA 12 M or DELTA 12 SAT. The antenna DELTA 12 is supplied by the amplifier RR 404. An optional cable amplifier TVAK may be screwed below the DELTA 12, if the cable length exceeds 30m.

Preferrably the outputs are connected via antenna outlets. The amplifier is connected to the 24 V supply system.

Dimensions: 300 mm × 330 mm × 170 mm

The delivery consists of

- 1 **RR 404** AM / FM / TV - Amplifier / Splitter
- 1 **Mounting instruction** German / English

Accessories:

BBAM	Wideband amplifier module (150 kHz - 30MHz) for AV 205 or AV 107 SAT
TVAK	Antenna amplifier for FM / TV if cable length exceeds 30 m
P0	Antenna outlet with 1 output for AM / FM Radio and 1 output for TV

AM/FM/TV Amplifier / Splitter

RR 404

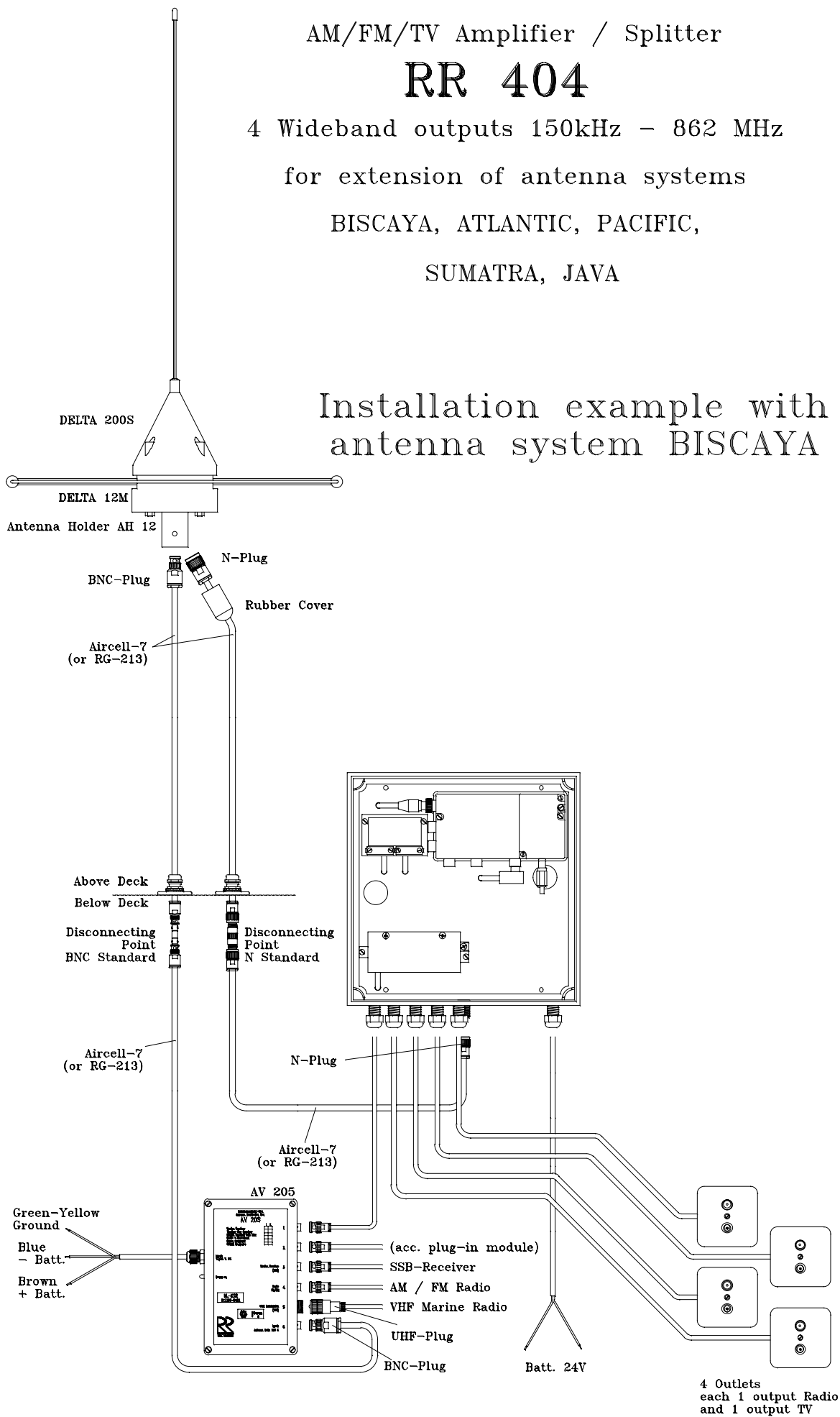
4 Wideband outputs 150kHz - 862 MHz

for extension of antenna systems

BISCAYA, ATLANTIC, PACIFIC,

SUMATRA, JAVA

Installation example with antenna system BISCAYA



AM/FM/TV Amplifier / Splitter

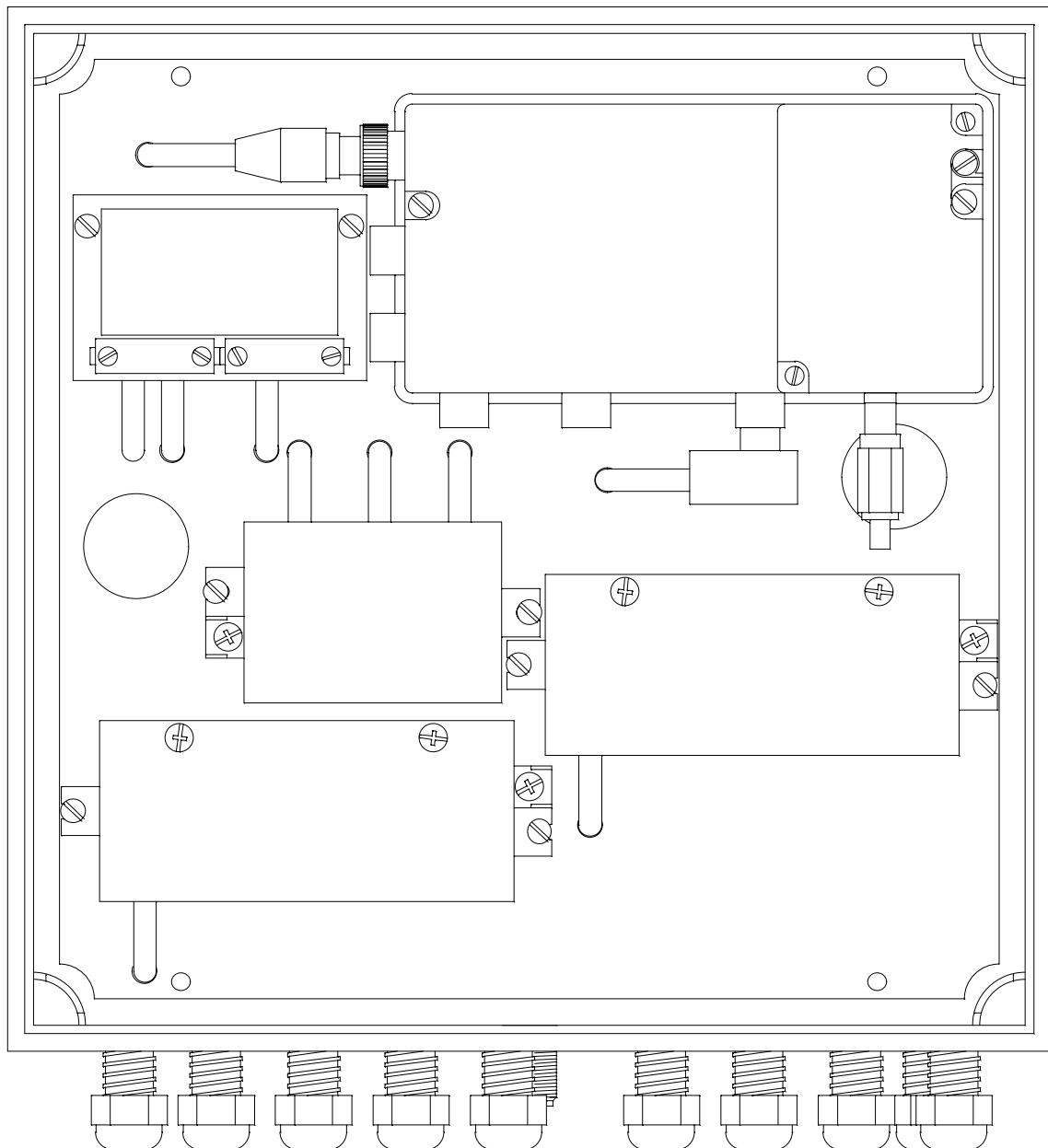
RR 408

8 Wideband outputs 150kHz – 862 MHz

for extension of antenna systems

BISCAYA, ATLANTIC, PACIFIC,

SUMATRA, JAVA



AM / FM / TV Amplifier / Splitter

RR 408

for extension of antenna systems BISCAYA, ATLANTIC, PACIFIC, SUMATRA, JAVA with 8 wideband outputs 150 kHz - 862 MHz.

For the AM frequency range the amplifier RR 408 is connected to the antenna DELTA 200 S via the distribution box AV 205 or with the antenna DELTA 100 R or DELTA 100 S via the distribution box AV 107 SAT. A module BBAM is inserted into the distribution box AV 205 or AV 107 SAT.

For the FM / TV frequency range the amplifier RR 408 is connected to the antenna DELTA 12 M or DELTA 12 SAT. The antenna DELTA 12 is supplied by the amplifier RR 408. An optional cable amplifier TVAK may be screwed below the DELTA 12, if the cable length exceeds 30m.

Preferrably the outputs are connected via antenna outlets. The amplifier is connected to the 24 V supply system.

Dimensions: 300 mm × 330 mm × 170 mm

The delivery consists of

- 1 **RR 408** AM / FM / TV - Amplifier / Splitter
- 1 **Mounting instruction** German / English

Accessories:

BBAM	Wideband amplifier module (150 kHz - 30MHz) for AV 205 or AV 107 SAT
TVAK	Antenna amplifier for FM / TV if cable length exceeds 30 m
P0	Antenna outlet with 1 output for AM / FM Radio and 1 output for TV

AM/FM/TV Amplifier / Splitter

RR 408

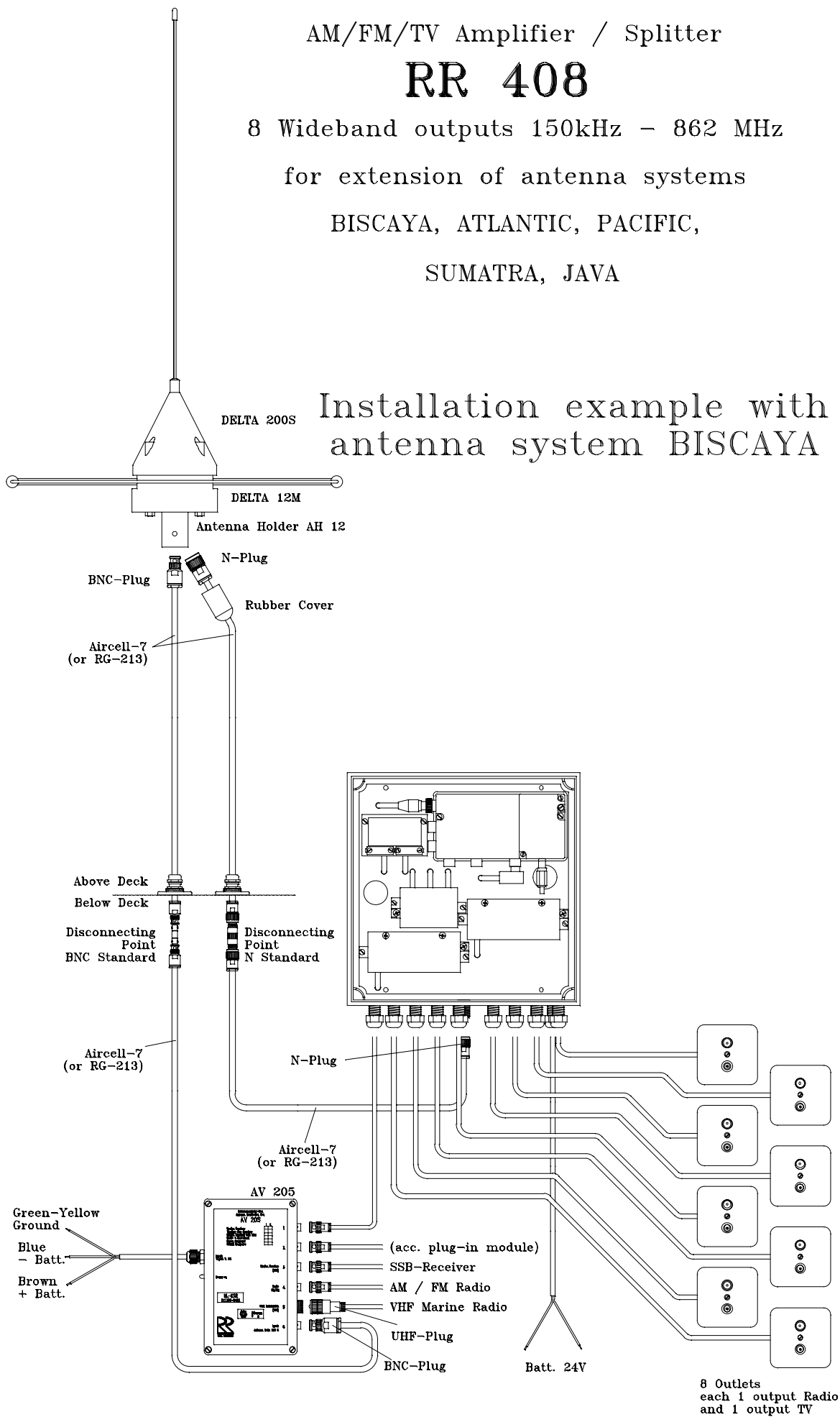
8 Wideband outputs 150kHz - 862 MHz

for extension of antenna systems

BISCAYA, ATLANTIC, PACIFIC,

SUMATRA, JAVA

Installation example with
antenna system BISCAYA

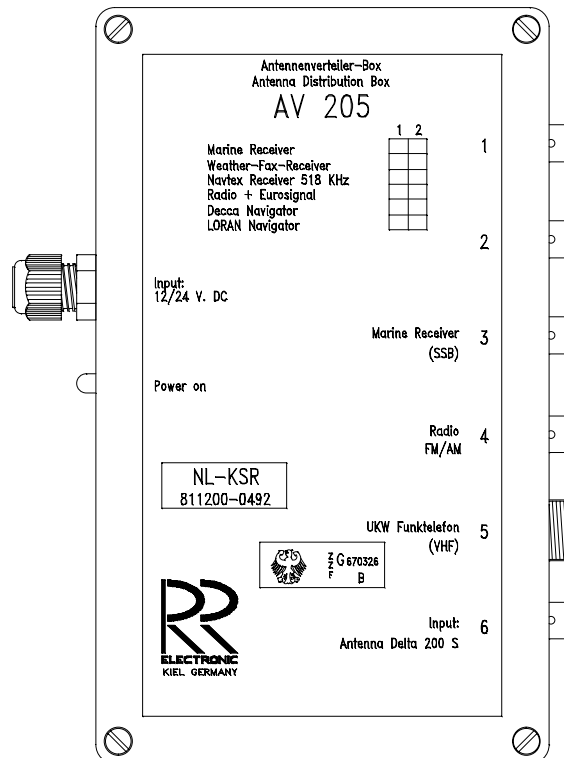


Antenna Distribution Box AV 205 for DELTA 200 S

- 1 Input/output VHF
- 2 Wideband Outputs 50kHz–108MHz
- 2 Outputs acc. Plug-in Module

Cable for power supply + ground
Blue = negative
Brown = positive
Green/yellow = ground

Power Indicator (green LED)



Output acc. plug-in module
BNC standard

Output acc. plug-in module
BNC standard

Wideband output (e.g. SSB receiver)
BNC standard

Wideband output (e.g. AM/FM Radio)
BNC standard

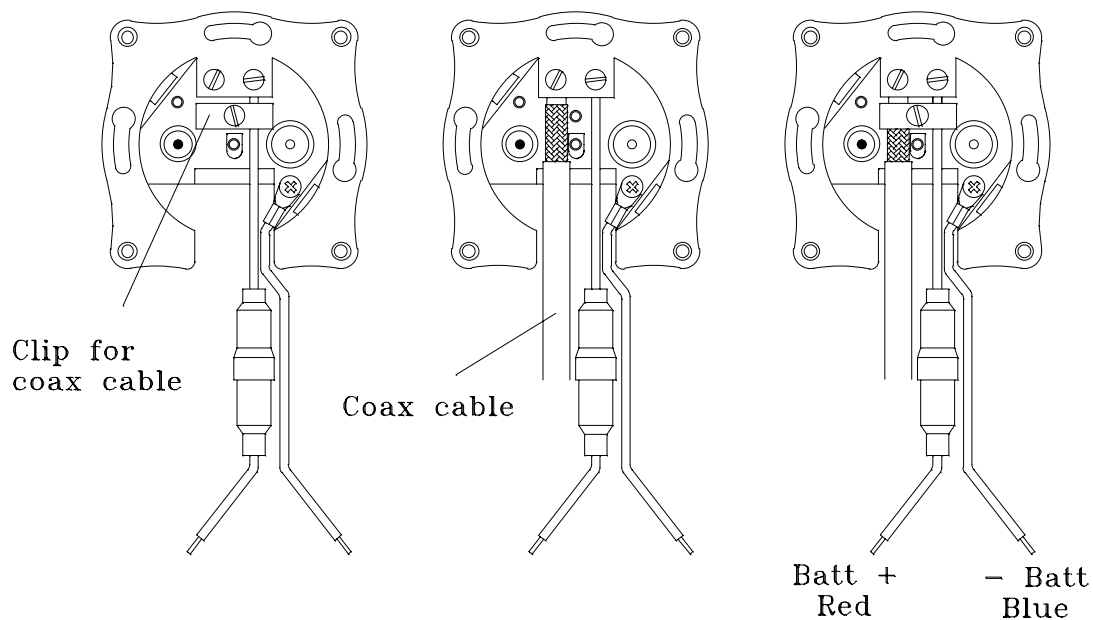
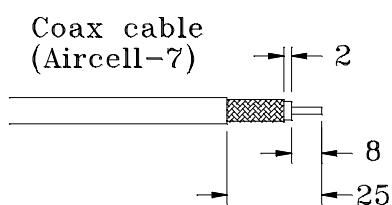
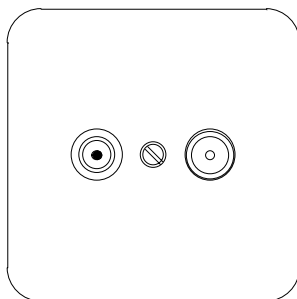
Input / output VHF
UHF standard

Antenna input DELTA 200 S
BNC standard

RR
ELECTRONIC

Antenna Distribution Box AV 12 for DELTA 12 M

1 Output FM Radio, 1 Output TV



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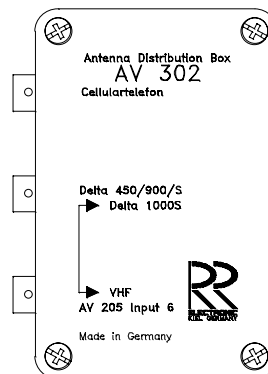
Antenna Distribution Box AV 302 for DELTA 1000S, DELTA 900S or DELTA 450/900

1 Input Cellular Telephone
1 Input VHF or AV 205

Input Cellular Telephone
BNC standard

Antenna input DELTA 1000S or
DELTA 900S or DELTA 450/900
BNC standard

Input VHF or AV 205
BNC standard

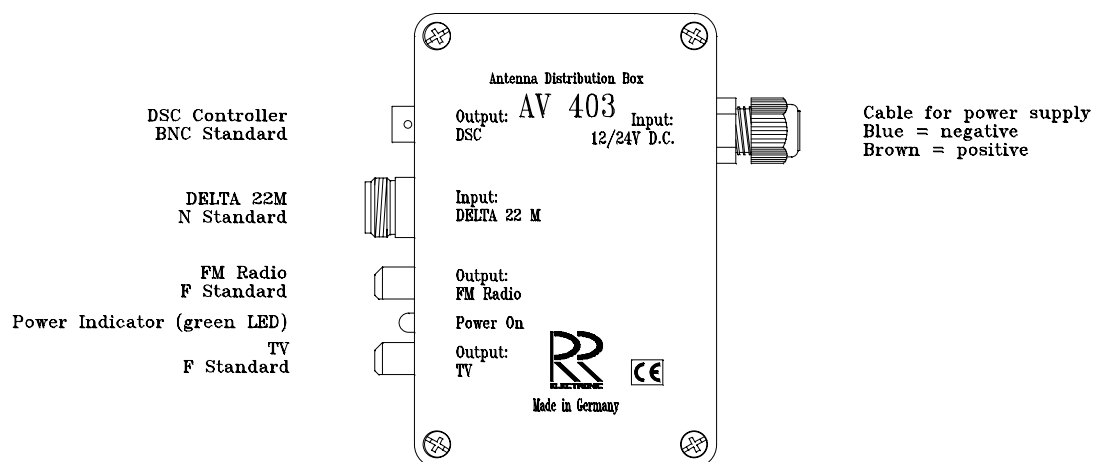


Transmitter power:
VHF max. 35W
Cellular Telephone max. 35W



Antenna Distribution Box AV 403 for DELTA 22 M

1 Output FM Radio
1 Output TV
1 Output DSC Controller

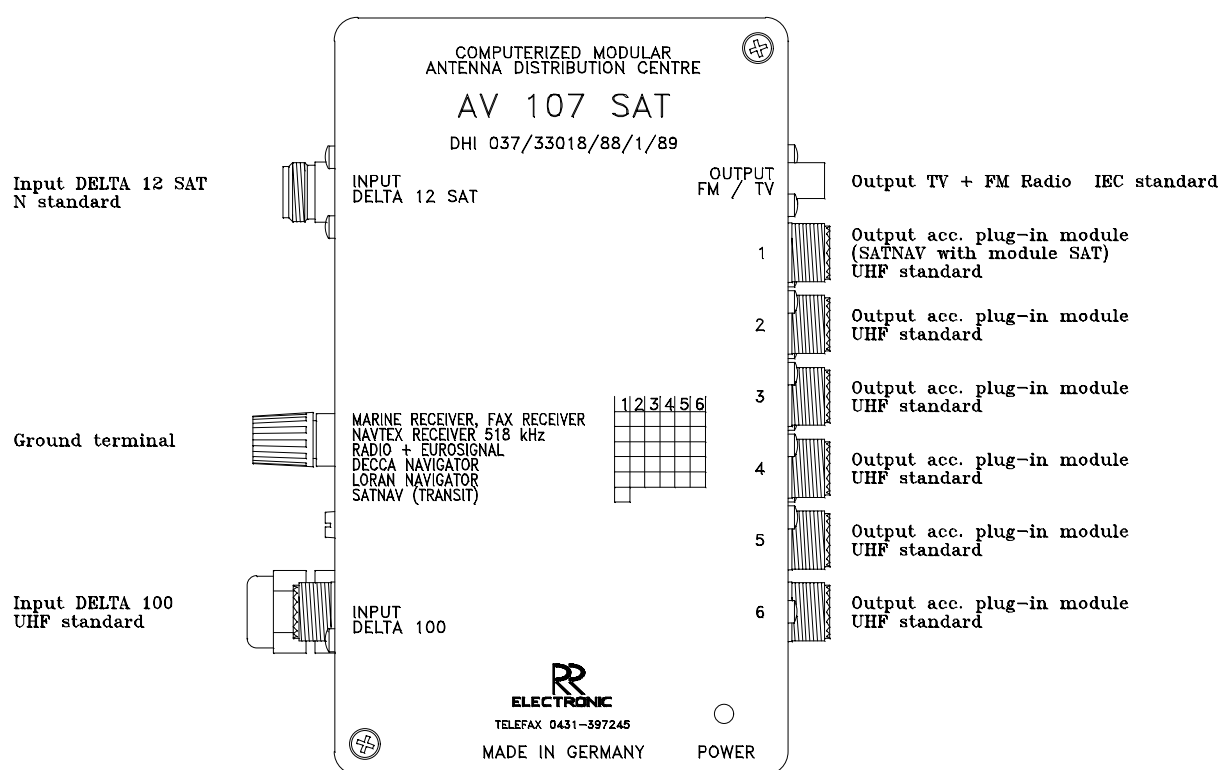


RR
ELECTRONIC

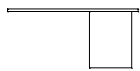
Antenna Distribution Box AV 107 SAT

for DELTA 12 SAT and DELTA 100

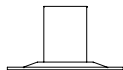
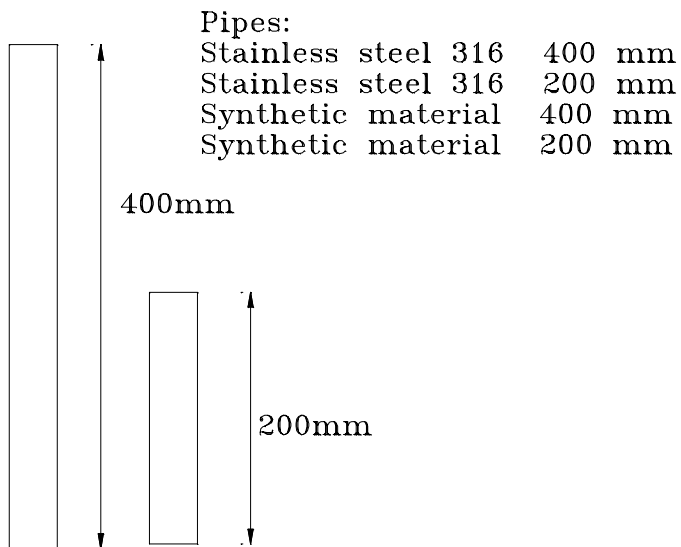
7 Outputs – acc. plug-in module



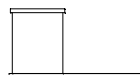
Antenna holders



Holder AH 12
Stainless steel 316



Ground plate
Stainless steel 316



Holder AH 162 for
DELTA 162 on
DELTA 12 M
Stainless steel 316



Holder AH 1000
for DELTA 1000 on
DELTA 12 M
Stainless steel 316



Angle bracket for
DELTA 100, DELTA 162
Stainless steel 316