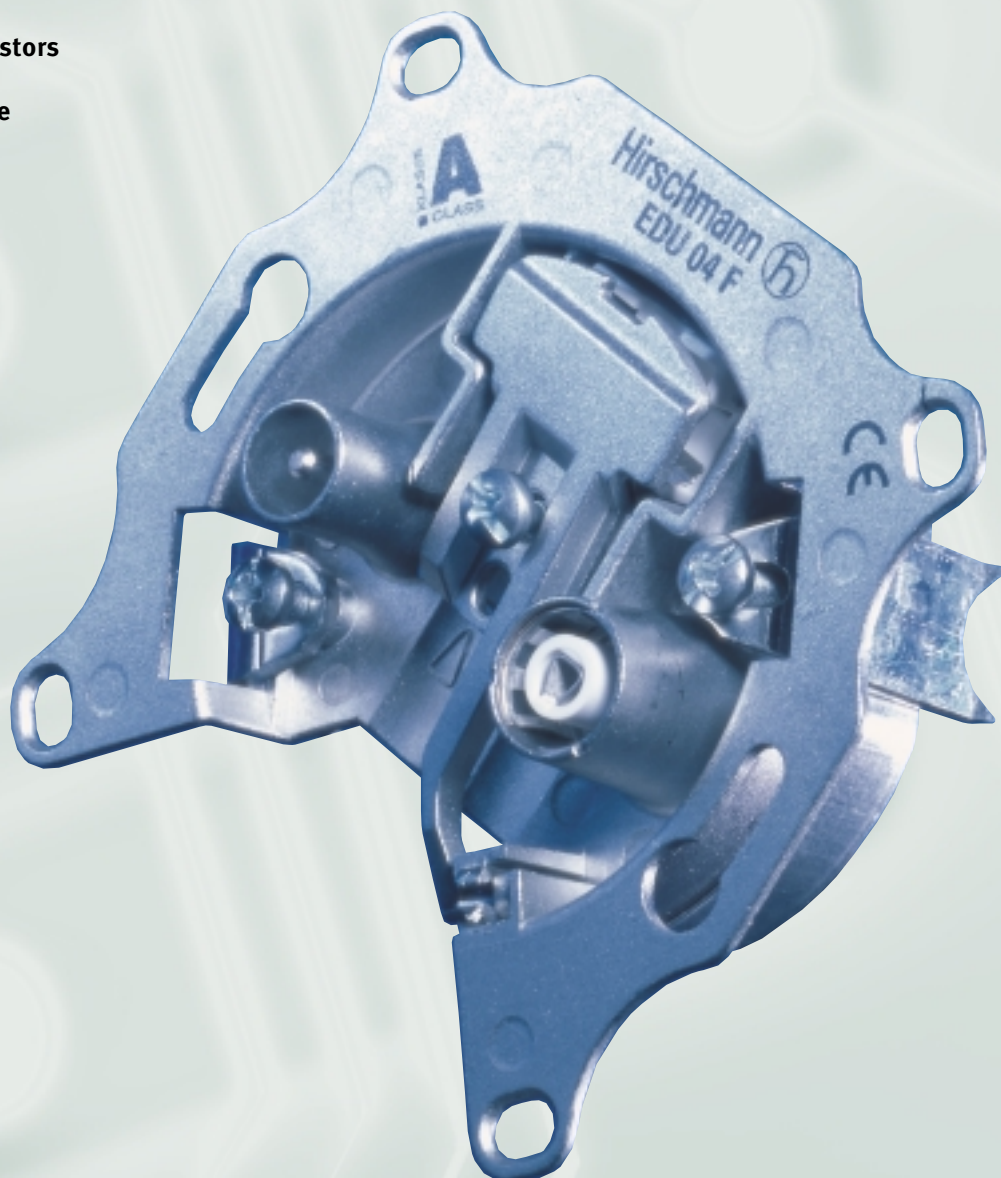


▶ Antenna Outlet Sockets

Page 107 – Page 118

- Super broadband sockets
- Filter sockets
- Triple outlet satellite sockets
- Quadruple outlet sockets
- Special types
- Surface mounting boxes, cover plates
- Termination resistors
- Connection cable

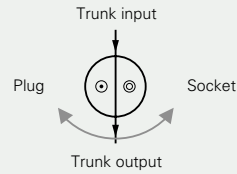


Introduction

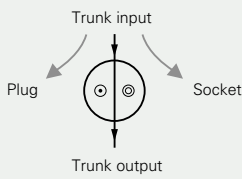
Attenuation



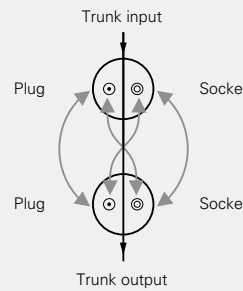
Throughpass attenuation
Attenuation between trunk input and trunk output



Internal coupling attenuation
Attenuation between plug output and socket output



Connection attenuation
Attenuation between trunk input and plug or socket output

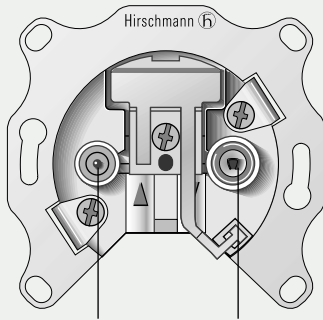


EN coupling attenuation (2 outlet method)
Attenuation between the outputs of two antenna sockets

Socket types

Double antenna outlet sockets

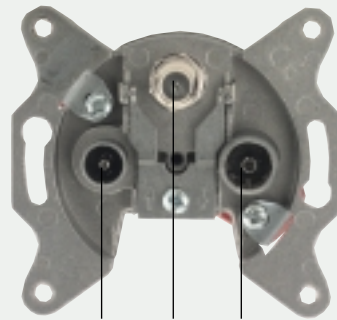
Universal sockets, suitable for satellite, terrestrial and broadband cable/CATV



TV Radio

Triple antenna outlet sockets

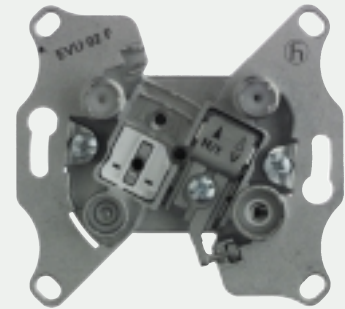
For individual satellite and SMATV installations. Data socket for broadband cable/ CATV



TV Sat Radio data

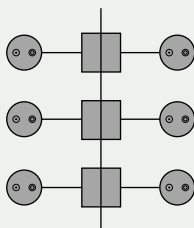
Quadruple antenna outlet sockets

For use in multiswitch installations (star or tree structure)

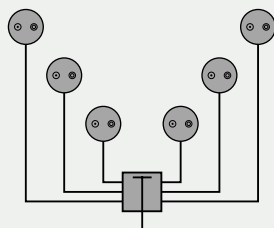


Network structures

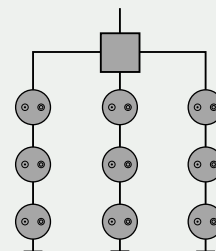
Floor star



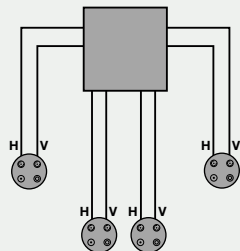
Star network



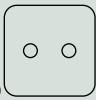


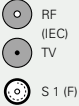
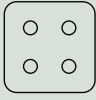

Tree network









Tree and star network



Overview

Standard range	Characteristics	RP	VHF I	FM	VHF/UHF	Sat
<p>Super broadband Universal for all applications</p>  <p>EDU 04 F EDU 10/15/20</p>	<p>Universality, “4 sockets for all applications“ Future-oriented assignment of the outputs EDU 04 F remote feed via TV plug</p> 					
<p>Spec. satellite sockets Indiv. sat. and SMATV inst. with 1st sat. IF distribution</p>  <p>EDA 3902 F GEDA 3913 F</p>	<p>Single cable connection with selec. distribution, remote feed via sat. output</p> 					
<p>EVU 02 F</p> 	<p>Two separate connections with selective distribution remote feed via both sat. outputs</p> 					

Special types

<p>Specially configured subscriber connections for CATV networks</p>  <p>FS 1 D FS 7 D FS 12 D</p>	<p>Minimum attenuation for optimized star distribution</p> <p>Selective filter sockets</p> 					
<p>FS 1 BNL</p> 	<p>Selective filter sockets with galvanic isolation</p> 					
<p>ED 01 S GD 08 S GD 11 S</p> 	<p>Remote feed via satellite socket</p> 					

Double antenna outlet sockets

- Super broadband technology: future-proof up to 2400 MHz
- Universal socket suitable for connecting a radio, TV set or satellite receiver
- Suitable for satellite, terrestrial and broadband cable, CATV
- Can be used for all international standards: B/G, D/K, I, L, M, CCIR/OIRT, PAL/SECAM/NTSC/digital TV
- Continuous cross over area at both outputs, i.e. any assignment with both return path and forward path possible
- Easy installation and connection technology
- Socket and plug to IEC 60169-2
- Can be installed in 55 flush mounting box (58 mm Ø) or in surface box
- Please order termination resistor, frame, and cover plate separately
- Suitable for coax cable
Inner conductor up to 1.4 mm Ø
Outer conductor up to 5.5 mm Ø
- Quantity boxed: 10 pieces
- Meets EN 50083-1, -2

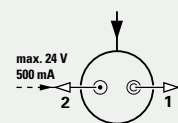
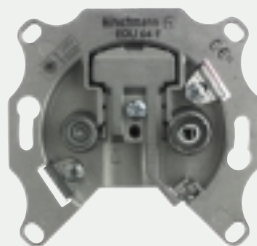


Standard range super broadband

Individual socket

Type	EDU 04 F
------	----------

Order No.	947 527-001
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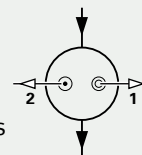


For use in individual and MATV installations on decoupled tap-off lines
Transmits remote feed voltage

Throughpass socket

Type	GEDU 10
------	---------

Order No.	947 529-001
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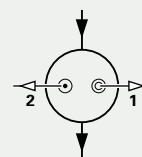


For use in MATV installations preferably at the end of a trunk line with many outlet sockets

Throughpass socket

Type	GEDU 15
------	---------

Order No.	947 528-001
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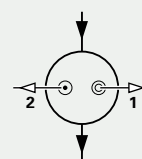


For use in MATV installations

Throughpass socket

Type	GEDU 20
------	---------

Order No.	947 530-001
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For use in MATV installations preferably at the begin of a trunk line with a large number of outlet sockets

		RC	VHF I	FM	LSC-VHFIII ESC	UHF IV/V	Sat IF	
Frequency range	MHz	5-40	47-68	87.5-108	125-470	470-862	950-2050	2050-2400

Connection attenuation								
1 (RF), socket	dB	4.0	4.0	4.0	4.0	4.0	4.7	5.5
2 (TV), plug	dB	4.0	4.0	4.0	4.0	4.0	4.7	5.5
Internal coupling attenuation	dB	14	20	20	20	20	20	20
Remote feed voltage/current		max. 24 V=/500 mA via TV output						

		MHz	5-40	47-68	87.5-108	125-470	470-862	950-2050	2050-2400
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Throughpass attenuation	dB	2.8	2.2	2.2	2.2	2.4	3.2	4.2
Connection attenuation								
1 (RF), socket	dB	11.5	10.0	10.0	10.0	10.0	10.0	11.5
2 (TV), plug	dB	11.5	10.0	10.0	10.0	10.0	10.0	11.5
Coupling attenuation								
RF/TV int.	dB	40	42	42	42	38	32	30
TV/TV	dB	40	50	50	50	46	32	32
Direction. attenuation TV/RF	dB	35	40	40	40	36	22	20

		MHz	5-40	47-68	87.5-108	125-470	470-862	950-2050	2050-2400
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Throughpass attenuation	dB	1.0	0.8	0.8	0.8	0.8	1.4	1.8
Connection attenuation								
1 (RF), socket	dB	14.5	14.5	14.5	14.5	14.5	15.0	15.5
2 (TV), plug	dB	14.5	14.5	14.5	14.5	14.5	15.0	15.5
Coupling attenuation								
RF/TV int.	dB	18	24	24	24	24	24	24
TV/TV	dB	44	54	54	54	54	44	42
Direction. attenuation TV/RF	dB	30	40	40	40	40	30	26

		MHz	5-40	47-68	87.5-108	125-470	470-862	950-2050	2050-2400
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Throughpass attenuation	dB	0.8	0.6	0.6	0.6	0.8	1.1	1.4
Connection attenuation								
1 (RF), socket	dB	20	20	20	20	20	20	21
2 (TV), plug	dB	20	20	20	20	20	20	20
Coupling attenuation								
RF/TV int.	dB	18	24	24	24	24	24	24
TV/TV	dB	60	64	64	64	60	50	50
Direction. attenuation TV/RF	dB	40	44	44	44	40	30	30


Triple antenna outlet sockets

EDA 3902 F, GEDA 3913

- Suitable for satellite and terrestrial
- For satellite distribution in a tree structure
- For connecting a radio, TV and satellite receiver
- Outputs: socket for RF, plug for TV both to IEC 60169-2, F-socket for satellite
- Connecting system for inner conductor 0.8-1.3 mm Ø outer conductor up to 5.5 mm Ø
- Can be installed in 55 flush mounting box (58 mm Ø) or in surface box
- 50 x 50 mm cover plate included (standard spacing)
- Suitable for the majority of multi-switch ranges
- Surface box AR 30 Please order separately
- Quantity boxed: 4 pieces
- Meets EN 50083-1, -2
- 

Quadruple Antenna Outlet Sockets

EVU 02 F:

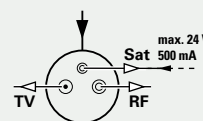
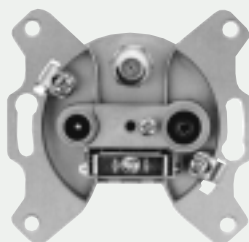
- For connecting a radio, TV and two independent connections for satellite receivers
- Two independent satellite receivers can be operated in conjunction with an external multiswitch
- Can be installed in 55 flush mounting-box (58 mm Ø) or in surface box
- 76 x 76 mm cover plate included
- Please order surface box AR 20 separately
- Clamp connection: inner conductor: 0.4 - 1.4 mm Ø outer conductor: 2.7 - 4.5 mm Ø
- For connecting mini coaxial cable or KOKA 780 TWIN-Sat cable
- Quantity boxed: 10 pieces
- Meets EN 50083-1, -2
- 

Standard program, special satellite sockets

Individual socket

Type	EDA 3902 F
------	------------

Order No.	947 499-201
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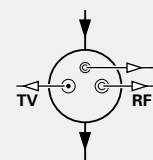
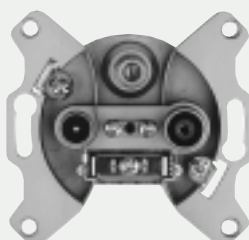


For use in individual and MATV installations on decoupled tap-off lines. Transmits remote feed voltage via satellite outlet

Throughpass socket

Type	GEDA 3913
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Order No.	947 521-001
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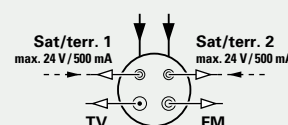
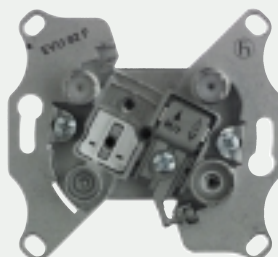


For use in SMATV installations

Individual socket

Type	EVU 02 F
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Order No.	947 282-001
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Simultaneous connection of up to four receivers possible, throughpass of the remote feed voltage, usage in conjunction with multiswitches in satellite MATV installations, addition to broadband cable installations of additional satellite programs

		RC	VHF I	FM	LSC-VHFIII ESC	UHF IV/V	Sat IF
Frequency range	MHz	5-40	47-68	87.5-108	174-470	470-862	950-2150
Connection attenuation							
RF, socket	dB	2.0	2.0	2.0	-	-	-
TV, plug	dB	1.5	1.5	1.5	1.5	1.5	-
Sat, F-socket	dB	-	-	-	-	-	2.0-3.0
Remote feed voltage/current	max. 24 V=/500 mA via satellite output						

		MHz	5-40	47-68	87.5-108	174-470	470-862	950-2150
Throughpass attenuation	dB	1.0	1.0	1.0	1.0	1.0	1.0	2.0-3.0
Connection attenuation								
RF, socket	dB	14	14	14	-	-	-	-
TV, plug	dB	14	14	14	14	14	-	-
Sat, F-socket	dB	-	-	-	-	-	-	14
Coupling attenuation								
TV/TV	dB	45	45	45	45	45	-	-
Terr./Sat	dB	20	20	20	20	20	20	20
Sat/Sat	dB	-	-	-	-	-	-	32

		MHz	5-40	47-68	87.5-108	125-470	470-862	950-2150
Connection attenuation								
Input Ht/output FM (socket)	dB	-	-	-	6.5	-	-	-
Input Ht/output TV (plug)	dB	5.0	6.0	-	-	6.0	6.0	-
Input Ht/output S1 (F-socket)	dB	2.5	2.2	2.2	2.2	2.2	2.2	2.5
Input V/output S2 (F-socket)	dB	0.2	0.4	0.4	0.4	0.4	0.4	0.5
Internal coupling attenuation								
Output S1/S2	dB	-	-	-	-	48	48	36-30
Remote feed voltage/current	max. 24 V=/500 mA via satellite output							


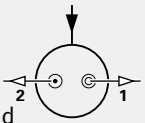
Double antenna outlet sockets

- Filter sockets up to 1000 MHz
- Suitable for specially configured subscriber connections for broadband cable/CATV networks
- For connecting a radio and a TV
- Suitable for return path (RP)
- Easy installation and connection
- Socket and plug to IEC 60169-2
- Can be installed in 55 flush mounting box (58 mm Ø) or in surface box
- Please order accessories separately
- Special types in large quantities only
- Meets EN 50083-1, -2


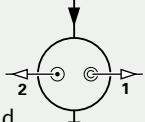


Special types


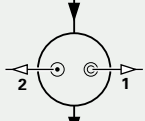
Individual socket

Type	FS 1 D
Order No.	947 593-001
	 <p>Special socket for broadband CATV and MATV installations on decoupled tap-off lines</p>


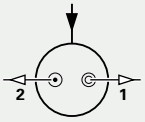
Throughpass socket

Type	FS 7 D
Order No.	947 623-001
	 <p>Special socket for broadband CATV and MATV installations</p>

Throughpass socket

Type	FS 12 D
Order No.	947 594-001
	 <p>Special socket for broadband CATV and MATV installations</p>

Individual socket

Type	FS 1 BNL*
Order No.	947 595-002
	 <p>Special socket for broadband cable/CATV and MATV installations on decoupled tap-off lines, Galvanic separation of the RF and TV coaxial connections (≥ 2 kV, 50 Hz)</p>

* Only for BeNeLux, on request also available in other countries.

		RP/VHF I	FM	(LSC)-VHFIII	ESC	UHF IV/V
Frequency range	MHz	5-68	87.5-108	118-125	125-470	470-1000

Connection attenuation						
1 (RF), socket	dB	20	1.0	20	26	26
2 (TV), plug	dB	0.8	12	2.0	0.8	0.8
Intern. coupling attenuation	dB	20	12	20	26	26

		MHz	5-68	87.5-108	118-125	125-470	470-1000
--	--	-----	------	----------	---------	---------	----------

Throughpass attenuation	dB	2.8	2.8	2.8	2.8	3.3
Connection attenuation						
1 (RF), socket	dB	30	8	-	26	30-26
2 (TV), plug	dB	7.4	18	8	7	8
Directional attenuation	dB	25	42	42	36	36
Intern. coupling attenuation	dB	20	15	-	20	25-22

		MHz	5-68	87.5-108	118-125	125-470	470-1000
--	--	-----	------	----------	---------	---------	----------

Throughpass attenuation	dB	0.8	0.8	0.8	0.8	0.8
Connection attenuation						
1 (RF), socket	dB	30	12	30	36	36
2 (TV), plug	dB	12	22	12	11	11
Directional attenuation	dB	30	40	40	40	36
Intern. coupling attenuation	dB	20	12	20	26	26

		MHz	5-75	87.5-108	118-125	125-470	470-862
--	--	-----	------	----------	---------	---------	---------

Connection attenuation						
1 (RF), socket	dB	30-12	1.8	12-14	14-26	26
2 (TV), plug	dB	1.8	12	1.8	0.8	0.8
Intern. coupling attenuation	dB	30-12	12	12-14	14-26	26

Antenna Outlet Sockets

Double antenna outlet sockets

- Filter sockets up to 2400 MHz
- Universal socket suitable for connecting a radio, TV set or satellite receiver
- Suitable for satellite and terrestrial
- Suitable for satellite distribution in a tree structure
- Can be used for all international standards:
B/G, D/K, I, L, M, CCIR/OIRT, PAL/SECAM/NTSC/digital TV
- Easy installation and connection technology
- Socket and plug to IEC 60169-2
- Can be installed in 55 flush mounting-box (58 mm Ø) or in surface box
- Please order termination resistor, box, and cover plate separately
- Quantity boxed: 10 pieces
- Meets EN 50083-1, -2



GD 08 S and GD 11 S

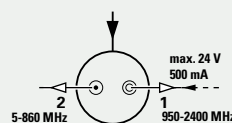
- Other tap-off attenuations supplied on request

Filter sockets

Individual socket

Type ED 01 S

Order No. 947 644-002

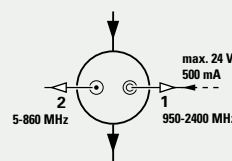


For use in individual and MATV installations on decoupled tap-off lines
Transmits remote feed voltage

Throughpass socket

Type GD 08 S

Order No. 947 646-001

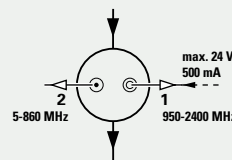


Antenna socket for MATV installations, Connection of a radio for terrestrial signals and connection of a receiver for satellite signals from the 1st IF range is possible

Throughpass socket

Type GD 11 S

Order No. 947 645-002



For use in MATV installations at the end of a trunk line with a large number of sockets. Transmits remote feed voltage

Connection cable

FEKAB:

- For connecting a radio, TV or satellite receiver to an antenna outlet socket in accordance with IEC 60169-2
- Completely assembled, with angled coaxial plug and angled coaxial socket in accordance with IEC 60169-2

SATKAB:

- For the connection of a satellite receiver to an antenna outlet socket with F-connectors
- Completely assembled, with 2 angled connectors

Common features:

- White cable and connectors
- Packed in polythene bag
- Quantity boxed: 10 pieces
- Shielding rate ≥ 90 dB



Type	FEKAB 1.5 m	SATKAB 1.5 m
Order No.	947 679-151	947 665-151

Type	FEKAB 3 m	SATKAB 3 m
Order No.	947 680-151	947 666-151



Fig. FEKAB

Type	IEC socket	F/F-quick connectors
Frequency range	0.15-2400 MHz	0.15-2400 MHz
Connection	IEC connection	F/F connection

		RC	VHF I	FM	LSC-VHFIII	UHF IV/V	Sat IF	ESC
Frequency range	MHz	5-40	47-68	87.5-108	125-470	470-862	950-2150	2150-2400
Connection attenuation								
2 RF/TV (plug)	dB	1.0	1.0	1.0	1.0	1.2	20	25
1 Sat (socket)	dB	30	30	30	30	25	1.2	1.2
Coupling attenuation TV/Sat	dB	30	30	30	30	30-25	20	25
Remote feed voltage/current		max. 24 V=/500 mA via satellite output						

		MHz	5-40	47-68	87.5-108	125-470	470-862	950-2150	2150-2400
Throughpass attenuation	dB		1.0	1.0	1.0	1.0	1.2	1.6	2.4
Connection attenuation									
2 RF/TV (plug)	dB		8	8	8	8	9	24	26
1 Sat (socket)	dB		33	33	33	33	33	8	9
Coupling attenuation TV/Sat	dB		30	30	30	30	25	20	25
Directional attenuation									
output/TV	dB		30	30	30	30	30	35	30
output/Sat	dB		35	35	35	35	35	20	15
Remote feed voltage/current		max. 24 V=/500 mA via satellite output							

		MHz	5-40	47-68	87.5-108	125-470	470-862	950-2150	2150-2400
Throughpass attenuation	dB		1.0	1.0	1.0	1.0	1.2	1.6	2.4
Connection attenuation									
2 RF/TV (plug)	dB		11	11	11	11	11.5	25	30
1 Sat (socket)	dB		35	35	35	35	35	11.5	12.0
Coupling attenuation TV/Sat	dB		30	30	30	30	25	20	25
Directional attenuation									
output/TV	dB		30	30	30	30	30	35	30
output/Sat	dB		35	35	35	35	35	20	15
Remote feed voltage/current		max. 24 V=/500 mA via satellite output							

Accessories

Termination resistors

Type	R 77
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Order No. 947 508-002



- For reflection-free termination
- Frequency range 0.15-2400 MHz
- Use with antenna outlet sockets, tap-offs, distribution boxes

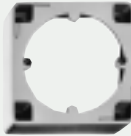

Antenna Outlet Sockets

- For surface mounting of all Hirschmann antenna outlet sockets
- Color: ivory and white
- For antenna outlet sockets EDU..., GEDU..., FS...
- Associated cover plate for AR 20: AD 350

- For Hirschmann antenna outlet sockets EDU..., GEDU... and FS...
- Color: ivory and white
- Made of impact-proof plastic
- For standard range and also for some special types

Accessories

Surface box

Type		AR 20	AR 30
Order No.	ivory	910 382-002	947 562-001
	white	910 382-005	
			
For usage with		2 x, 4 x sockets	3 x sockets
Dimension		81 x 81 mm	76 x 76 mm

Cover plate

Type		AD 350
Order No.	ivory	910 460-202
	white	910 460-205
		
Dimension		81 x 81 mm