



A SIMPLY
PERFECT
NETWORK.

**PASSIVE MATERIAL
FOR CATV AND SAT**



Ed.05.23





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TAPS F-CONNECTION 1218 MHz FOR CATV

- For indoor usage
- Connection: F-female
- Frequency range 5-1218 MHz
- Die-cast housing with earth bonding
- Screening factor > 100 dB, CLASS A + 10 dB
- Hum-suppression
- Low intermodulation according to EN 60728-4
- Tested and approved by Vodafone Kabel Deutschland GmbH



Type		STA 0112-6	STA 0112-8	STA 0112-12	STA 0112-16	STA 0112-20
Item No.		57002860	57002861	57002862	57002863	57002864
Frequency range	MHz	5 - 1218	5 - 1218	5 - 1218	5 - 1218	5 - 1218
Taps		1	1	1	1	1
Tap loss	± 1.0 dB	6	8	12	16	20
Insertion loss	5-862 MHz	2.2	1.5	0.8	0.4	0.4
	862-1218 MHz	3	2.2	2	0.9	0.9
Isolation OUT-TAB	5-47 MHz	26	26	28	35	38
	47-862 MHz	25	24	26	33	30
	862-950 MHz	22	24	25	32	31
	950-1218 MHz	22	22	22	28	28
Return loss	dB	18dB@47 MHz -1.5dB/oct., but > 12dB				
Dimensions	mm	52 x 51 x 17	52 x 51 x 17	52 x 51 x 17	52 x 51 x 17	52 x 51 x 17
Weight	kg	0.05	0.05	0.05	0.05	0.05

Type		STA 0212-8	STA 0212-12	STA 0212-16	STA 0212-20	
Item No.		57002865	57002866	57002867	57002868	
Frequency range	MHz	5 - 1218	5 - 1218	5 - 1218	5 - 1218	
Taps		2	2	2	2	
Tap loss	± 1.0 dB	8	12	16	20	
Insertion loss	5-562 MHz	4	1.2	1.2	1	
	862-1218 MHz	4.7	2.2	2.0	2.0	
Isolation TAP-TAP	5-47 MHz	34	46	49	50	
	47-862 MHz	33	35	35	37	
	862-950 MHz	32	34	32	35	
	950-1218 MHz	25	27	30	30	
Isolation OUT-TAP	5-47 MHz	28	32	33	35	
	47-862 MHz	25	27	30	32	
	862-950 MHz	24	26	30	33	
	950-1218 MHz	23	23	28	30	
Return loss	dB	18dB@47 MHz -1.5dB/oct., but > 12dB				
Dimensions	mm	52 x 51 x 17	52 x 51 x 17	52 x 51 x 17	52 x 51 x 17	
Weight	kg	0.05	0.05	0.05	0.05	

TAPS F-CONNECTION 1218 MHz FOR CATV

- For indoor usage
- Connection: F-female
- Frequency range 5-1218 MHz
- Die-cast housing with earth bonding
- Screening factor > 100 dB, CLASS A + 10 dB
- Hum-suppression
- Low intermodulation according to EN 60728-4
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Type		STA 0312-10	STA 0312-12	STA 0312-16	STA 0312-20
Item No.		57002869	57002870	57002871	57002872
Frequency range	MHz	5 - 1218	5 - 1218	5 - 1218	5 - 1218
Taps		3	3	3	3
Tap loss	± 1.0 dB	10	12	16	20
Insertion loss	5-862 MHz	2.9	2.3	2.1	2.1
	862-1218 MHz	5.3	3.7	2.8	2.8
Isolation TAP-TAP	5-47 MHz	35	38	45	47
	47-862 MHz	32	36	38	40
	862-950 MHz	32	34	36	37
	950-1218 MHz	27	33	35	38
Isolation OUT-TAP	5-47 MHz	26	28	34	31
	47-862 MHz	26	26	33	27
	862-950 MHz	26	25	32	26
	950-1218 MHz	24	24	28	24
Return loss	dB	18dB@47 MHz -1.5dB/oct., but > 12dB			
Dimensions	mm	52 x 51 x 17	52 x 51 x 17	52 x 51 x 17	52 x 51 x 17
Weight	kg	0.09	0.09	0.09	0.09

Type		STA 0412-12	STA 0412-16	STA 0412-20
Item No.		57002873	57002874	57002875
Frequency range	MHz	5 - 1218	5 - 1218	5 - 1218
Taps		4	4	4
Tap loss	± 1,0 dB	12	16	20
Insertion loss	5-862 MHz	2.9	2.5	2.2
	862-1218 MHz	5.0	4.5	4.2
Isolation TAP-TAP	5-47 MHz	40	42	43
	47-862 MHz	36	36	36
	862-950 MHz	35	35	35
	950-1218 MHz	28	30	30
Isolation OUT-TAP	5-47 MHz	28	28	32
	47-862 MHz	26	26	28
	862-950 MHz	25	25	26
	950-1218 MHz	22	22	25
Return loss	dB	18dB@47 MHz -1.5dB/oct., but > 12dB		
Dimensions	mm	74 x 60 x 17	74 x 60 x 17	74 x 60 x 17
Weight	kg	0.09	0.09	0.09

SPLITTER F-CONNECTION 1218 MHZ FOR CATV

- For indoor usage
- Connection: F-female
- Frequency range 5-1218 MHz
- Die-cast housing with earth bonding
- Screening factor > 100 dB, CLASS A
- Hum-suppression
- Low intermodulation according to EN 60728-4
- Tested and approved by Vodafone Kabel Deutschland GmbH



Type		VT 0212	VT 0312	VT 0412	VT 0612	VT 0812	
Item No.		57002855	57002856	57002857	57002858	57002859	
Frequency range	MHz	5 - 1218	5 - 1218	5 - 1218	5 - 1218	5 - 1218	
Taps		2	3	4	6	8	
Insertion loss	5-752 MHz	dB	3.3	5.3	6.7	8.5	10.2
	752-1218 MHz	dB	3.8	5.9	7.5	9.7	11.5
Isolation OUT-OUT	5-950 MHz	dB	24	24	24	24	24
	950-1218 MHz	dB	22	22	22	22	22
Return loss	dB	18dB@47 MHz -1.5dB/oct., but > 12dB					
Dimensions	mm	22 x 51 x 17	74 x 51 x 17	74 x 51 x 17	118 x 60 x 17	118 x 60 x 17	
Weight	kg	0.05	0.06	0.07	0.11	0.13	

- Vertical In- and Outputs



Type		VT 0412 V	VT 0612 V	VT 0812 V	
Item No.		57003408	57003409	57003410	
Frequency range	MHz	5 - 1218	5 - 1218	5 - 1218	
Taps		4	6	8	
Insertion loss	5-376 MHz	dB	6.6	8.5	10.1
	376-752 MHz	dB	7.1	9.0	10.7
	752-950 MHz	dB	7.1	9.5	11.2
	950-1218 MHz	dB	8.0	10.0	12.3
Isolation OUT-OUT	5-950 MHz	dB	24	24	24
	950-1218 MHz	dB	22	22	22
Return loss	dB	18dB@47 MHz -1.5dB/oct., but > 12dB			
Dimensions	mm	72.5 x 41.3 x 28	92.4 x 41.3 x 28	110 x 41.3 x 28	
Weight	kg	0.09	0.12	0.15	

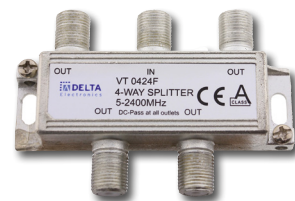
TAPS F-CONNECTION 2400 MHz FOR SAT-IF

- For indoor usage
- Connection: F-female
- Frequency range 5-2400 MHz
- Die-cast housing with earth bonding
- Screening factor > 100 dB, CLASS A
- Hum-suppression
- DC-power pass at trunk line max. 1 A

Type		STA 0124-10	STA 0224-10	STA 0424-10
Item No.		57000995	57000996	57000997
Frequency range	MHz	5 – 2400	5 – 2400	5 – 2400
Taps		1	2	4
Tap loss	± 1.0 dB	10	11	11.5
Insertion loss	dB			
5-40 MHz		1.5	4.5	5.0
41-1000 MHz		1.8	3.2	5.0
1001-1750 MHz		2.2	3.8	5.2
1751-2400 MHz		2.8	4.2	5.5
Directional isolation	dB	> 23	> 26	> 20
Port isolation TAP-TAP	dB	-	> 26	> 18
Return loss >40 MHz	dB	> 12	> 12	> 9
Connector		F-female	F-female	F-female
Dimensions	mm	52 x 51 x 17	74 x 51 x 17	74 x 63 x 17
Weight	kg	0.05	0.06	0.09

SPLITTER F-CONNECTION 2400 MHz FOR SAT-IF

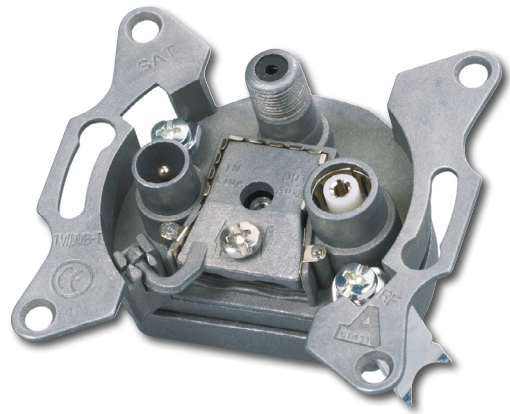
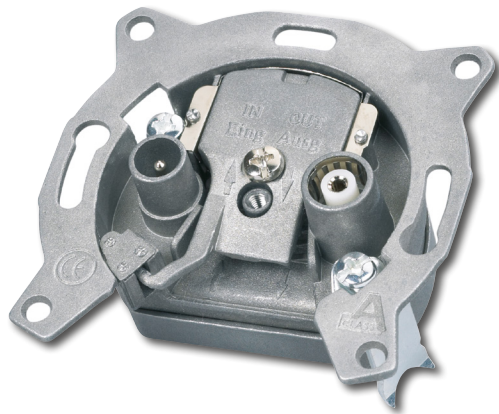
- Frequency range 5-2400 MHz
- Power pass all outlets, diode isolated



KLASSE
A
CLASS

Type		VT 0224	VT 0324	VT 0424	VT 0624	VT 0824
Item No.		10161293	10161294	10161295	10161296	10161297
Frequency range	MHz	5 - 2400	5 - 2400	5 - 2400	5 - 2400	5 - 2400
Outputs		2	3	4	6	8
Through loss	dB					
5-1000 MHz	± 0.5 dB	4.5	7.5	9.0	11.5	12.5
1001-1700 MHz		6.0	8.8	10.0	13.5	15.2
1751-2400 MHz		6.5	10.5	11.0	16.0	17.5
Isolation	dB	> 19	> 20	> 21	> 21	> 21
Return loss > 40 MHz	dB	> 9	> 11	> 11	> 11	> 11
Dimensions	mm	52 x 51 x 17	74 x 51 x 17	74 x 51 x 17	118 x 60 x 17	118 x 60 x 17
Weight	kg	0.05	0.06	0.07	0.13	0.14

ANTENNA WALL OUTLETS HIGH-Q



The best solution for television, radio as well as internet- and phone access

Antenna sockets in the dwelling build the network connection of the coaxial house distribution system for television, radio and interactive services. They supply connection possibilities for terminals like televisions, SAT receivers, FM stereo systems or cable modems within the residence.

The most suitable socket types can be simply chosen according to the planned reception types and services of the antenna system:

- || **Universal broadband sockets** are suitable for terrestrial reception, for the CATV transmission in community antenna systems and for SAT-IF signals. They are mostly independent from the type of broadcast and enable universal connection possibilities. Universal broadband sockets are recommended for house distribution systems, in which the expansion of both transmission technologies (CATV or SAT) is generally possible, but no special requirements are to be expected.

Key features

- || Easy to install, solid mechanical construction
- || Reliable inner conductor cable clamp
- || Multimedia-wall outlets with excellent return loss
- || Types with return way blocking filter available
- || Optimized according logistics, usage and handling aspects

- || **CATV sockets** are suitable for terrestrial, i.e. cable frequency ranges up to 1300 MHz. Special versions like the **multimedia sockets** avail of an additional cable modem connection (DATA) with extremely high isolation of the return path. Interferences of the TV reception from the cable modem are thus effectively suppressed.

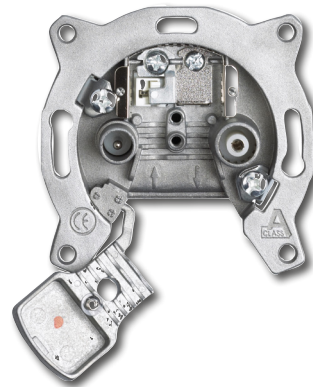
- || **SAT sockets** are optimized for the transmission of SAT-IF signals in antenna systems with direct satellite reception. In single SAT systems and community systems with multi-switches (star distribution) DC feedable tap sockets are required. The use of DC-free SAT loop-through antenna sockets is recommended in DC free single cable solutions (tree networks). For intelligent single cable solutions, e.g. with the DELTA Electronics SAT converter MSW / MSU, a special D version with DC capability and diode decoupled F-connector is available. Here, the last socket must be terminated with a capacitive separated resistor R 75 DC (accessories).



- || Packing: Single packed or 10 pcs packed
Single packing includes cover plate and frame

HIGH-Q WALL OUTLETS UNIVERSAL SUPER BROADBAND

- Super-Broadband-walloutlet for CATV and SAT-IF
- Wide band frequency transmission at both outputs
- Suitable for various applications
- Packing: 10 pcs package



Type	Frequency range	BE 0424	BD 1024
Item No.	10pcs-package	10161242	10161241
Description		Terminal	Loop through
Attenuation			
TV OUT (IEC-male)	dB	5-2200 MHz	10 - 12
FM OUT (IEC-female)	dB	5-2200 MHz	10 - 12
Trunkline OUT	dB	5-2200 MHz	2,2 - 4,0
Isolation			
between outputs	dB	OUT <-> TV	22
between outputs	dB	OUT <-> RF	22
DC pass at TV port		TV (SAT)	13 / 18 V, 22 kHz
Weight	kg	0.1	0.1

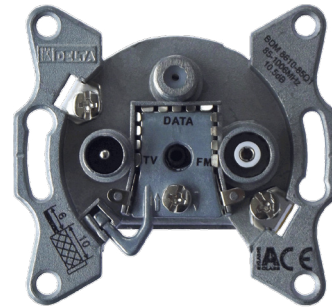
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Frequency-grid	RK VHF I FM S2/3 VHF III UHF SAT
● IEC-male „TV“	████████████████████
○ IEC-female „RF“	████████████████████
Trunkline OUT*	████████████████████

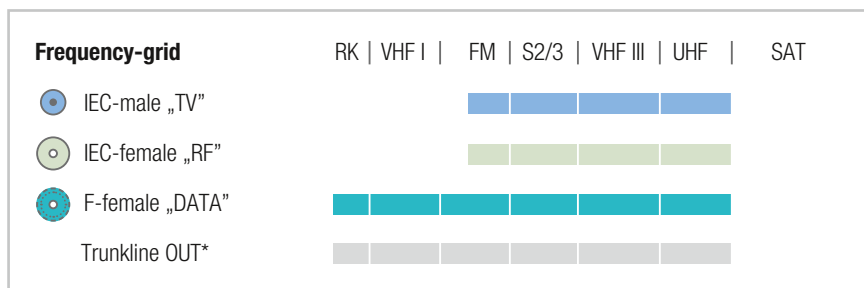
*only BD xxxx

HIGH-Q WALL OUTLETS CATV-MULTIMEDIA

- Multimedia-wall outlet for interactive CATV networks (Triple Play)
- High isolation between return way and downstream ensures a perfect TV transmission during the cable modem operation
- Wide frequency range at TV port allows the transmission of QAM-channels S2 and S3
- Packing: 10 pcs package



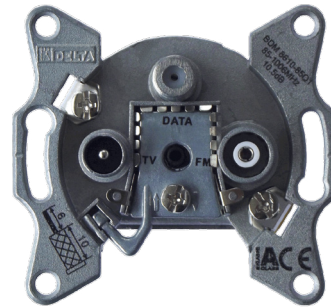
Type	Frequency range	BEM 8604-85 Q	BDM 8610-85 Q	BDM 8612-85 Q	BDM 8615-85 Q	BDM 8619-85 Q	
Item No.		57001540	57001541	57001661	57001542	57001543	
Description		Terminal	Loop through	Loop through	Loop through	Loop through	
Attenuation							
TV OUT (IEC-male)	dB	85-1000 MHz	4.0	10	12	14.5	19
FM OUT (IEC-female)	dB	87.5-1000 MHz	9.0	10	12	14.5	19
DATA OUT (F-female)	dB	5-1000 MHz	8.0	10	12	14.5	19
Trunk line OUT	dB	5-1000 MHz	-	4.3	2.0	2.5	2.0
Isolation		5-65/85-1000 MHz					
between the connector	dB	DATA <-> TV	75 / 30	75 / 40	75 / 35	70 / 35	72 / 40
between the connector	dB	OUT <-> TV	-	45 / 30	45 / 30	45 / 30	45 / 30
between the connector	dB	OUT <-> RF	-	45 / 22	45 / 22	45 / 22	45 / 22
Weight	kg		0.1	0.1	0.1	0.1	0.1



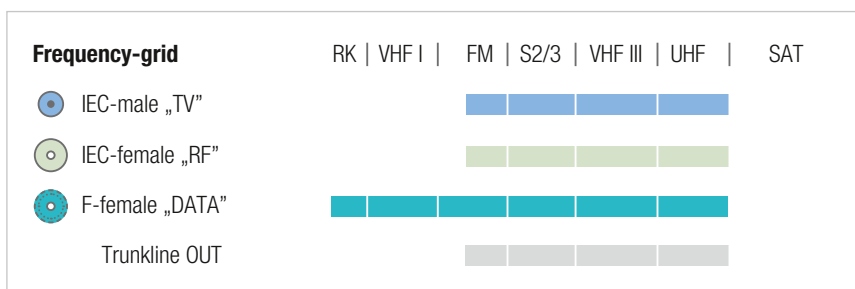
*only BDM 86xx-85Q

HIGH-Q WALL OUTLETS CATV-MULTIMEDIA-RETURN FILTER

- Multimedia-wall outlet with highpass filter at trunkline for blocking return signal to the next wall outlets
- High isolation between return way and downstream ensures a perfect TV transmission during the cable modem operation
- Wide frequency range at TV port allows the receive of QAM-channels S2 and S3
- Packing: Single package incl. cover plate and frame



Type	Frequency range		BDM 8610-85 QHP	BDM 8615-85 QHP
Item No.			57001544	57001545
Description			Loop through	Loop through
Attenuation				
TV OUT (IEC-male)	dB	85-1000 MHz	10.5	14.5
FM OUT (IEC-female)	dB	87.5-1000 MHz	10.5	14.0
DATA OUT (F-male)	dB	5-1000 MHz	10.5	15.0
Trunk line OUT	dB	5-65/85-1000 MHz	45 / 4.0	45 / 2.5
Isolation	5-65/85-1000 MHz			
between the connector	dB	DATA <-> TV	70 / 30	70 / 30
between the connector	dB	OUT <-> TV	45 / 30	45 / 30
between the connector	dB	OUT <-> RF	45 / 22	45 / 22
Weight	kg		0.1	0.1

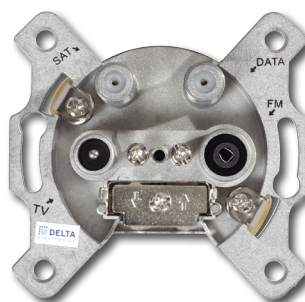


SAT-DATA MULTIMEDIA WALL OUTLETS

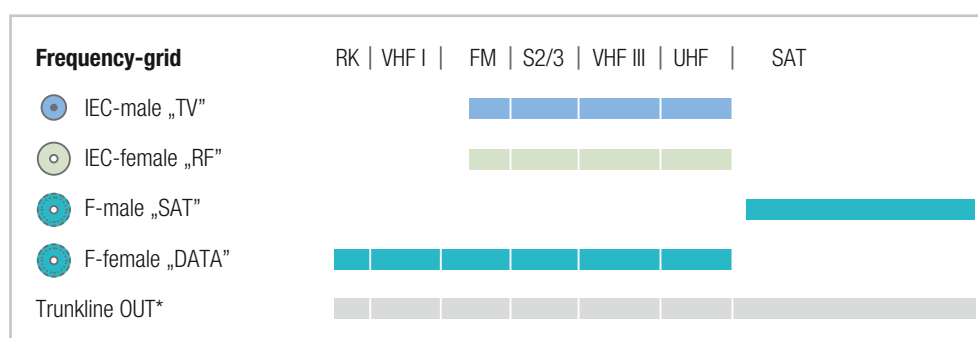
Universal single- and loop through wall outlets

Applicable in SAT-IF- and HFC-hybrid networks.

- Outlets for SAT, DATA, FM, TV to connect a cable modem, SAT-STB, TV-Sets and Radio
- High isolation between DATA, SAT and TV
- DC-Pass for LNB power supply or multiswitch control
- Including cover plate and frame



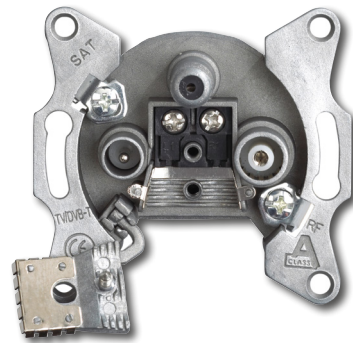
Type	Frequency range	BDM 2410-85	BDM 2415-85	BDM 2419-85
Item No.	1pcs-package	57000947	57000948	57000949
Description		Loop through	Loop through	Loop through
Attenuation				
FM OUT	dB 85-862 MHz	10	14	19
TV OUT	dB 85-2200 MHz	10	14	19
DATA OUT	dB 5-862 MHz	10	14	19
SAT OUT	dB 950-2200 MHz	10	14	19
Trunkline OUT	dB 5-1750 MHz	6.5	5.0	6.0
Trunkline OUT	dB 1750-2400MHz	8.0	7.0	6.5
Isolation				
SAT <-> TV/RF	dB 950-2400 / 85-862 MHz	20	20	20
DATA <-> TV/FM	dB 5-65 / 85-862 MHz	65 / 22	65 / 22	65 / 22
OUT <-> SAT/TV	dB	22	22	22
DC pass	SAT DC Pass (18V/1A)	13 / 18V, 22kHz	13 / 18V, 22kHz	13 / 18V, 22kHz



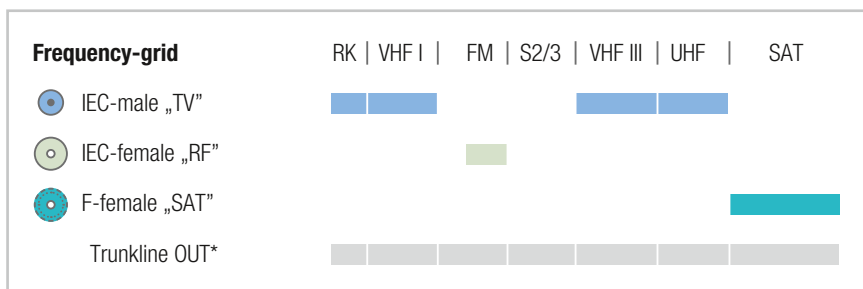
* only BDM 24xx-85

HIGH-Q WALL OUTLET SAT-IF

- Applicable for SAT-IF and terrestrial transmission
- Band filter for FM with low loss and high output isolation
- Loop through models: **SDD....QD** with DC-pass and diode isolated, e. g. for digital unicable solution with MSW or MSU
UNICABLE READY



Type	Frequency range	SEA 2400 Q	SEA 2400 QR	SDD 2411 QD	SDD 2414 QD	SDD 2419 QD	SDD 2424 QD
Item No.		57001528 57001598	57002344	57002346	57001442	57002345	57001443
Description		Terminal	Terminal	Loop through	Loop through	Loop through	Loop through
Attenuation							
TV OUT (IEC-male)	dB 4-68 / 125-862 MHz	1.0 - 2.0	8.5	12	19	14	24
FM OUT (IEC-female)	dB 87.5-108 MHz	1.0	8.5	16	19	17	24
SAT OUT (F-female)	dB 950-2200 MHz	1.5	7	11	19	14	24
Trunkline OUT	dB 5-862 / 950-2200 MHz	-	-	3.5 / 6	1.9 / 4.0	3 / 5.5	1.7 / 3.5
Isolation	5-65 / 85-862 MHz						
between the connector	dB SAT <-> TV/RF	30	20	20	25	20	25
between the connector	dB TV <-> RF	25	26	20	24	20	24
between the connector	dB OUT <-> SAT/TV	-	-	18	22	18	22
DC pass	SAT	13/18 V, 22 kHz	13/18 V, 22 kHz	13/18 V, 22 kHz	13/18 V, 22 kHz	13/18 V, 22 kHz	13/18 V, 22 kHz
Weight	kg	0.1	0.1	0.1	0.1	0.1	0.1



*only SDD 24xx QD

TWIN-WALL OUTLET SAT-IF

- Twin-wall outlet for 2-wire-SAT-IF application
- With DC pass
- Including cover plate and frame



Type	Frequency range	STD 2400
Item No.		10161174
Description		Terminal-twin wall outlet
Attenuation		
TV OUT (IEC-male)	dB	85-862 MHz
RF OUT (IEC-female)	dB	87.5-862 MHz
2x SAT OUT (F-female)	dB	950-2200 MHz
DC pass		12 V = max. 500 mA (over SAT-IF-connectors)

ACCESSOIRES FOR ANTENNA WALL OUTLETS

Type	AD 3 SET	AD 3-2	AP 1
Item No.	57001452	57004041	10161348
Description	Set with cover plate (2 parts) and frame for 3-hole outlets (pure white)	cover plate 2 part for 3-hole outlets (pure white)	Frame (pure white)
Dimensions	mm 76 x 76 x 8 / 76 x 76 x 32	76 x 76 x 8	76 x 76 x 32

Type	R 75	R 75 DC
Item No.	57000813	57000990
Description	Terminal resistor	Terminal resistor DC isolated
Frequency range	MHz 0 – 2200	10 – 2200
Load	75 Ohm	75 Ohm
Application	For DC isolated walloutlets	For SAT-wall outlets with DC pass

CONNECTING CABLE HIGH-Q

- High quality type
- Compression connectors
- Screening factor > 110 dB CLASS A, EN 50117

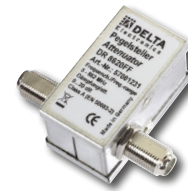


KLASSE
A
CLASS

Type	JP6/77CCTEX12KD	JP6/77CCTEX16KD
Item No.	57002110	57002111
Length	0.30 m	0.42 m
Connector	2 x F-male (compression)	2 x F-male (compression)
Application	Patch-cord Class A+	Patch-cord Class A+
Packaging	10 pcs	10 pcs

LEVEL ATTENUATOR

- For variable attenuation adjust
- Connection: F-male, F-female
- CLASS A



KLASSE
A
CLASS

Type	DR 8620 FF	
Item No.	57001231	
Frequency range	MHz	5 – 1000
Attenuation	dB	1 ... 20
Max. DC pass	-	
Connector	F-female	
Dimensions	mm	24 x 44 x 24

discontinued

GALVANIC ISOLATOR

- To avoid offset current between different electrical potentials
- Capacitors for galvanic isolation of IN- and outputs
- Immunity to surge voltages up to 1 kV
- No DELTA Electronics labelling



Type		TRISX-1002
Item No.		57004079
Frequency range	MHz	5 - 1218
Through loss	dB	0.4 ... 0.7
Linearity	dB	± 0.5
Immunity to surge voltages	kV	1 (between in- and output potentials)
Dimensions	mm	60 x 30 x 38

TRIS HOUSING

- TRIS-housing for the galvanic isolator
- Suitable for TRIS-1002 AEN & TRISX-1002



Type		TRIS-Housing
Item No.		57001201
Dimensions	mm	85 x 85 x 40

FIX ATTENUATOR

- Small housing, 40 x Ø 11 mm
- Connector: F-female and F-male
- CLASS A



Type	FR 3-3	FR 3-6	FR 3-10
Item No.	57001154	57001155	57001156
Frequency range	MHz	5 - 2400	5 - 2400
Attenuation	dB	3	6
Remarks		DC-Pass	DC-Pass

Type	FR 1-3	FR 1-6	FR 1-10
Item No.	57002351	57002352	57002353
Frequency range	MHz	5 - 1218	5 - 1218
Attenuation	dB	3	6

HQ-F-COMPRESSION CONNECTORS

Type	EX 6-49 NT Plus	EX 6-51
Item No.	57001847	57000772
Description	F-male	F-male
Cable type	KOAX 100, 110 A+, 115 A++	KOAX 1170 T
Cleaving Ø	mm 6.8	6.6
Dielectrium Ø	mm 4.6	4.8
Stripping A	mm 6.8	6.8
Stripping B	mm 6.8	6.8
Stripping tool	FACW 70 uni	FACW 70 uni
Compression tool	VT 300	VT 300

Type	EX 11	EX 6-49 IECf	EX 6-49 IECm
Item No.	57000768	57001616	57001615
Description	F-male	IECf-female	IECm-female
Cable type	KOAX 1610 T	KOAX 100,110A+,115A++	KOAX 100,110A+,115A++
Stripping tool	FACW 70 uni	FACW 70 uni	FACW 70 uni
Compression tool	VT 300	VT 300	VT 300

RETURN-WAY FILTER

- SBS-65/542: Super band stop for TV reception "Internet & Phone Only"
- SHP 3-86: For blockage of the return-way or for suppression of product interferences



Type	SBS-65/542	SHP 3-86
Item No.	57001805	57000830
Pass band	MHz 0 - 65, 542 - 862 (return-way, K 30 - K 69)	86 - 1218
Through loss	dB 0.5	< 1
Blocked frequency range	MHz 87.5 - 518 (FM - K 26)	0 - 65 (return-way)
Rejection depth	dB > 50	> 50
Dimensions	mm 60 x 20 x 20	30 x 10 x 10

F-CONNECTING ACCESSORIES

Type	FC 43	FC 50	FC 70	FCS 1	FC U 1
Item No.	57000757	57000758	57000760	57000783	57000785
Description	F-unscrewing plug for cable-Ø 4.0	F-unscrewing plug for cable-Ø 5.0	F-unscrewing plug for cable-Ø 7.0	F-double connector male/male	F-connector flush-mounted

Type	FC-KK 1	FB-KK 1
Item No.	57000773	57000775
Description	F-adapter F-male/IEC-female	F-adapter F-female/IEC-female


Type	FCB 1 HQ	FCQ 2	FR 75	FR 75 DC
Item No.	57001456	57000778	57000779	57000780
Description	F-connector HQ female/female	F-quick-adaptor F-male/F-male	F-terminal-resistor High-Q	F-terminal-resistor DC-isolated

Type	EB 1 HQ	EB 2 HQ	EB 4 HQ
Item No.	57000808	57000809	57000878
Description	F-earth grounding block 1-time	F-earth grounding block 2-times	F-earth grounding block 4-times

Type	EW 6 HQ 2	EW 8 HQ 2	EW 11 HQ 2	EW 13 HQ 2
Item No.	57003423	57003425	57003427	57003428
Description	earth grounding	earth grounding	earth grounding	earth grounding
No. of F-ports	6-times	8-times	11-times	13-times

INSTALLATION-TOOLS

Type	VT 300	CAT 59/6 EX
		
Item No.	57001200	57000801
Description	Compression tool (green)	Compression tool
Applicable for	EX 6-49, EX 6-51, EX 11 CMP MC 30, MC 37	EX 6, EX 59

Type	TW 307 AH
	
Item No.	57000839
Description	Torque wrench for F-compression connectors EX torque 3,4 Nm

Type	FCAW 70 uni	ABI 70
		
Item No.	57000802	57000804
Description	Cable stripper, 2-steps KOAX 58, 100, 110	Cable stripper universal all types of KOAX

COAXIAL CABLES



Most modern cable technology

Cables are like the nerve cords of a TV distribution network. DELTA, in cooperation with qualified suppliers, has put a lot of effort in developing optimal coaxial cable for different applications. For this, sensitive coherences between material usage, constructive cable design, the process parameters of manufacturing and lastly, the resulting mechanical and electrical cable characteristics needed to be reliably controlled. Multiple extruders for the purpose of physically cubicalising dielectrics, special machines for the braiding of the finely wired multi-wire shielding or electronically controlled extruders, which are sprayed under very high pressure onto the cable coating, are just some examples for this state-of-the-art manufacturing technology.

The advantages at a glance

KOAX 100 ECA

- The universal house installation cable for SAT-IF, community systems and CATV
- Special shielding construction ensures excellent and low coupling resistance in the return path range, as well as good screening resistance in CATV and SAT-IF frequency range (class A according to EN 50117-2-4)
- Solid-core inner conductor ensures corrosion free F-plug connections and low DC resistance in case of 13/18V remote feeding in SAT systems
- Compact multi-wire braiding, made from 128 single wires with isolation foil for comfortable installation
- Fire behaviour classification Eca (EN 50757)
- Alloy mesh is much cheaper than copper. For house cable installation and the use of DELTA Electronics compression plugs a similarly high reliability can be expected

KOAX 110 A+ Eca / KOAX 115 A++ Eca

- HQ house installation cable optimised for return path capable TV distribution networks (Triple Play). Effective suppression of interference in CATV systems (ingress) and SAT-IF distributions (GSM interference). Complies fully to the compulsory EMC network limits
- Special 3 tier shielding construction ensures low coupling resistance in return path range (class A++ according to EN 50117-2-3), as well as excellent screening attenuation in CATV and SAT-IF frequency range
- Solid-core inner conductor and tinned copper braiding as outer conductor for corrosion free F-plug connections, even in damp environments
- Physically highly celled threefold PE as a dielectric ensure low attenuation and long life
- Outer shielding foil glued to jacket for comfortable cable stripping
- Inner screening foil with dielectric glued for easy installation and secure mounting of compression and crimp plugs as well as excellent screening, even after bending
- Fire behaviour classification Eca (EN 50757)
- Recommended by leading cable TV operators

KOAX 1610 T

- HQ coaxial cable for low resistance trunk and feed lines for inside and outside installation
- Threefold shielding, class A, especially suitable for return-path capable cable TV networks (Triple Play)
- Premium solid-copper inner conductor for corrosion free connections
- Recommended by leading cable TV operators
- Vodafone certified

Accessories: transport box for Koax 100 / 110 A+ / 115 A++

- KKB 280 Coax cable box for the optimal transport of the Koax 100 / 110 A+ / 115 A++ on 100m plastic spools
- Art.No. 57002071



COAXIAL CABLES

- Highly celled gas injection dielectric (FPE) for low attenuation
- Length printed on jacket, beginning with 1m
- High reliability and durability
- Conforms to RoHS
- Orientated on standard EN 50117 ff



Type		KOAX 1610 T	KOAX 100 Eca	KOAX 110 A+ Eca	KOAX 115 A++ Eca		
Item No.	100 m / plastic spool	–	57003159	57004156	57003944		
	250 m / plastic spool	–	57003160	–	–		
	500 m / wooden barrel	57000861	57003161	57004157	57003945 (AUSLAUF)		
US classification		RG 11	RG 6	RG 6	RG 6		
Screening		triple layer	double layer	triple layer	triple layer		
Inner conductor	∅ mm	1.6 Cu	1.02 Cu	1.02 Cu	1.02 Cu		
Dielectric	∅ mm	7.11 FPE	4.6 FPE	4.6 FPE	4.6 FPE		
Jacket	∅ mm	10.0 PE (black)	6.8 PVC (white)	6.8 PVC (white)	6.8 PVC (white)		
Screening material		Al	Al	CuSn	CuSn		
Attenuation	dB/100 m						
		5 MHz	dB	1.2	1.8	1.2	1.4
		50 MHz	dB	2.9	4.8	4.2	4.5
		100 MHz	dB	4.1	6.5	6.0	6.4
		200 MHz	dB	6.0	9.0	8.5	9.2
		400 MHz	dB	8.1	13.0	12.1	13.0
		800 MHz	dB	11.8	18.5	17.8	19.0
1600 MHz	dB	18.2	27.5	25	28.0		
2150 MHz	dB	22.1	32.5	29.5	33.2		
Loop resistance	Ohm	75 ± 3.0	75 ± 3.0	75 ± 3.0	75 ± 3.0		
Propagation velocity		84 %	82 %	82 %	82 %		
DC resistance (loop)	Ohm/m	0.022	0.05	0.037	0.037		
Bending radius	cm	10	3.5	3.5	3.5		
Return loss ratio							
	5 – 450 MHz	dB	> 30	> 26	> 30	> 30	
	450 – 1000 MHz	dB	> 25	> 23	> 25	> 25	
1000 – 2150 MHz	dB	> 20	> 20	> 20	> 25		
Coupling resistance							
	5 – 30 MHz	mOhm/m	–	< 5	< 1	< 0.4	
Screening							
	30 – 1000 MHz	dB	110 ... 120	100	100 ... 120	125 ... 135	
	1000 – 2150 MHz	dB	110	90	100	115 ... 125	
Classification to EN 50117		A	A	A+	A++		
Fire behaviour classification		F _{ca}	E _{ca}	E _{ca}	E _{ca}		
F connector screw-in type		–	FC 70	FC 70	FC 70		
F connector crimp type		EX 11	EX 6-49 NT Plus	EX 6-49 NT Plus	EX 6-49 NT Plus		

VODAFONE - CERTIFIED

SEE HINT ON PAGE 20

FIXING ACCESSORIES

ANTENNA MASTS

- For attaching parabolic antennas
- Hot dip galvanized
- Mast cap included
- Protected by bead against rotating



Type		MR 60/200
Item No.		57000712
Length	m	2.0
Tube Ø	mm	60
Wall thickness	mm	2.0
Weight	kg	6.0
Permissible bending moment	(max.) Nm	1650 (1750)

MECHANICAL ACCESSORIES

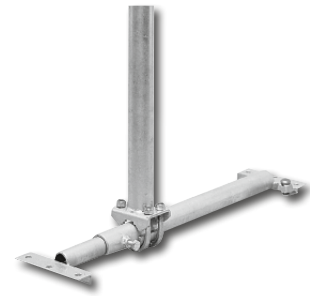
Type		MZ 60
Item No.		57000734
Description		Mast accessories set
For tube Ø	mm	60
Weight	kg	1.0
Scope of delivery		Mast roof, mast clamps, sealing cuff and mast cap

Type	MK 60	WH 44	WH 60
Item No.	57000730	57000704	57000705
Description	Mast cap	steel, hot dip galvanized wall distance 440 mm	steel, hot dip galvanized wall distance 600 mm
For tube Ø	mm	48	48
Weight	kg	2.7	3.7

FIXING ACCESSORIES

ROOF BRACKETS

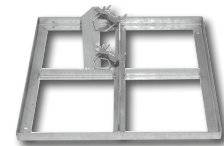
- For attaching antennas up to \varnothing 1.0 m
- Material: steel, hot dip galvanized
- High stability
- Flexible setting



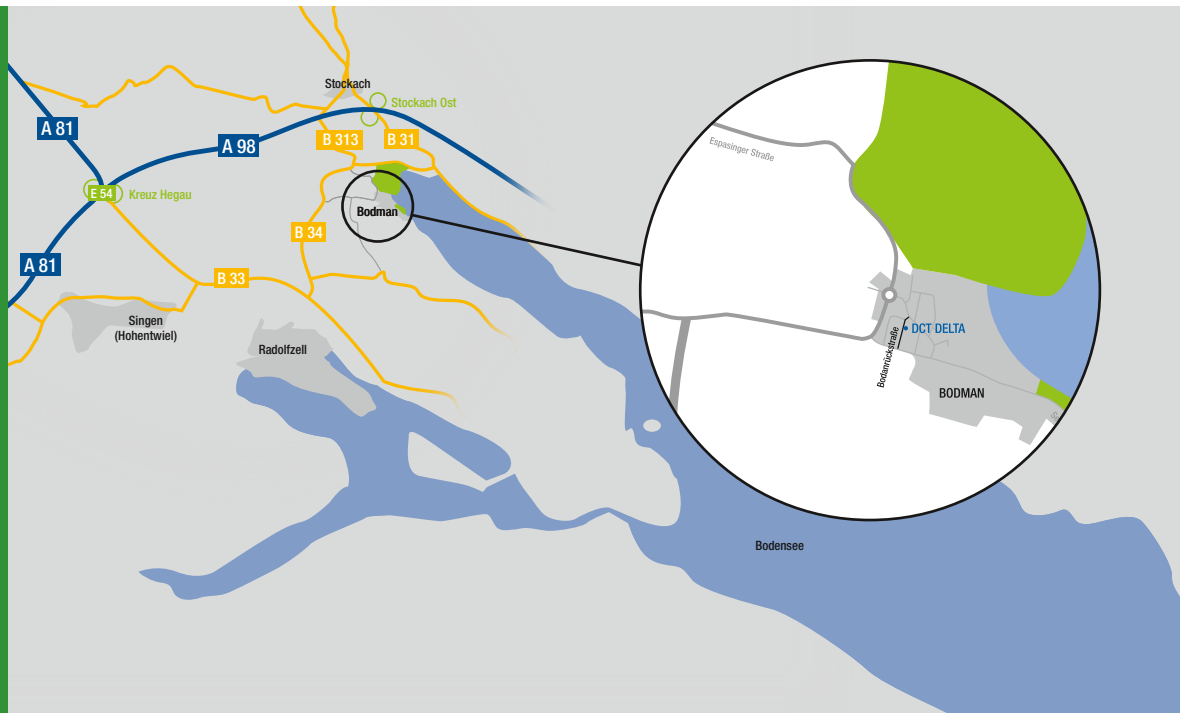
Type		DSP 90	DSP 130
Item No.		57000751	57000752
Rafter distance up to	m	0.9	0.9
Length	m	0.9	1.3
Tube \varnothing	mm	48.0	48.0
Weight	kg	ca. 5.4	ca. 6.5
For antennas up to \varnothing	m	1.0	1.0

TERRACE RACKS

- For attaching antenna masts
- Material: steel, hot dip galvanized



Type		BST 43
Item No.		57000748
For tubes up to	mm	60
For antennas up to \varnothing	m	1.0
Weight	kg	11
Fixing		4 stone stabs 30 x 30 cm



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