

1-PORT AND 2 PORT BROADBAND COAX OUTLETS UP TO 2 GHz

1-PORT AND 2-PORT COAX OUTLETS | Various configurations



COAX NETWORKS

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DATASHEET

INTRODUCTION

Our 1-port and 2-port coax outlets with 5 – 2000 MHz are intermodulation resistant according EN 60728-4. To make it corrosion resistant, the surface of every single adapter is coated with CuSn white bronze plating.



All of our 1-port and 2-port multimedia coax outlets have a high screening attenuation according to EN 50083-2 Class A +10 dB.

PRODUCTS

- 3 **1-PORT
BROADBAND COAX OUTLETS
UP TO 2 GHz**
 “btv-11x-d-HQ-x series”

- 4 **1-PORT
DOUBLE ISOLATED
COAX OUTLETS
UP TO 2 GHz**
 “btv-1xxx-NL series”

- 5 **1-PORT AND 2-PORT
BROADBAND COAX
OUTLETS UP TO 2 GHz**
 “btv-0x-UPC series + btv-04-A”

- 7 **2-PORT
MULTIMEDIA BROADBAND
COAX OUTLETS WITH DATA-PORT**
 “btv-MMD-204-s”

- 9 **ACCESSORIES/ SETS**
 “SAD-03”
 “SAD-122”
 “SAD-165”

1-PORT BROADBAND COAX OUTLETS UP TO 2 GHz

PRODUCT OVERVIEW

“btv-11x-d-HQ-x series”

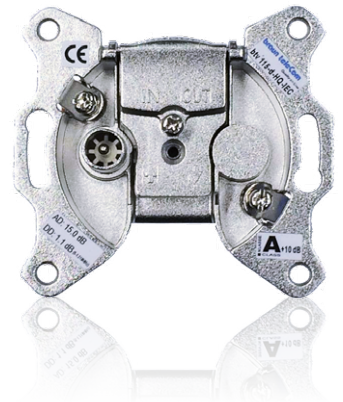
Parameter	Frequency [MHz]	btv-111-d-HQ-F	btv-113-d-HQ-F	btv-115-d-HQ-F	btv-111-d-HQ-IEC	btv-113-d-HQ-IEC	btv-115-d-HQ-IEC
Through loss [dB]	IN - OUT						
	5 - 862	1.3 ± 0.5	1.3 ± 0.5	1.1 ± 0.5	1.3 ± 0.5	1.3 ± 0.5	1.1 ± 0.5
	862 - 1218	1.3 ± 0.8	1.3 ± 0.8	1.1 ± 0.8	1.3 ± 0.8	1.3 ± 0.8	1.1 ± 0.8
	1218 - 1700	2.3 ± 1.0	2.3 ± 1.0	2.0 ± 1.0	2.3 ± 1.0	2.3 ± 1.0	2.0 ± 1.0
Tap loss [dB]	IN - IEC						
	5 - 1218	11.5 ± 0.8	13.0 ± 0.8	15.0 ± 0.8	11.5 ± 0.8	13.0 ± 0.8	15.0 ± 0.8
	1218 - 1700	11.5 ± 1.2	13.0 ± 1.2	15.0 ± 1.2	11.5 ± 1.2	13.0 ± 1.2	15.0 ± 1.2
	1700 - 2000	11.5 ± 1.5	13.0 ± 1.5	15.0 ± 1.5	11.5 ± 1.5	13.0 ± 1.5	15.0 ± 1.5
Return loss [dB]	IN - OUT						
	5 - 1700	16	16	16	16	16	16
	1700 - 2000	14	14	14	14	14	14
	IEC						
Isolation [dB]	OUT - IEC						
	5 - 65	25	25	25	25	25	25
	65 - 470	30	30	30	30	30	30
	470 - 1006	25	25	25	25	25	25
	1006 - 1700	20	20	20	20	20	20
	1700 - 2000	15	15	15	15	15	15
MoCA reduced isolation ⁽¹⁾ (dB max)		22					
Intermodulation ⁽²⁾ (dBμV min)		115					
Item No.		52990	52991	52992	53000	53001	53002

⁽¹⁾ With open input (accordant POE-Filter)

⁽²⁾ With test signals P = 60 MHz, Q = 65 MHz applied at DATA, TV OUT respectively, intermodulation distortion level is ≤ 15 dBμV at 2 P = 120 MHz, at P + Q = 125 MHz, at 2 Q = 130 MHz According to 60728-4

ADDITIONAL INFORMATION

- Clamp technology for inner conductor with diameter 0.4 - 1.2 mm
- Suitable for coax cables with diameter 4.1 - 7.2 mm
- Versions with IEC- and F-connections available
- Cover plate SAD-03, white colored RAL 9010, with removable blind cap at the radio-port (Item No. 53092) (please see last page)
- Surface-mount frame SAD-165, 80 x 80 x 33 mm, white colored RAL 9010, for multimedia outlets (Item No. 53094) (please see last page)



1-PORT DOUBLE ISOLATED COAX OUTLETS UP TO 2 GHz

PRODUCT OVERVIEW

“btv-1-xxx-NL series”

Parameter		Frequency [MHz]	btv-1-IEC-NL	btv-1-F-NL
Tap loss [dB]	IN - PORT 1	5 - 12	0.5 ± 0.4	0.5 ± 0.4
		12 - 470	0.5 ± 0.4	0.5 ± 0.4
		470 - 1006	0.5 ± 0.4	0.5 ± 0.4
		1006 - 1700	0.7 ± 0.5	0.7 ± 0.5
		1700 - 2000	0.9 ± 0.5	0.9 ± 0.5
Return loss [dB]	ALL	5 - 12	≥16	≥16
		12 - 300	≥20	≥20
		300 - 800	≥18	≥18
		800 - 1006	≥16.5	≥16.5
		1006 - 1700	≥14	≥14
Intermodulation ⁽¹⁾ (dBμV min)		1700 - 2000	≥12	≥12
Galvanic Isolation		≤ 8 mA, 230V AC 50/60 Hz; ≤ 0.7 mA, 2120 VDC (1 minute)		
Surge protection		1 kV 1.2/50 Qs		
Item No.		53003		53004

⁽¹⁾ With test signals P = 60 MHz, Q = 65 MHz applied at DATA, TV OUT respectively, intermodulation distortion level is ≤ 15 dBμV at 2 P = 120 MHz, at P + Q = 125 MHz, at 2 Q = 130 MHz According to 60728-4

ADDITIONAL INFORMATION

- Available as IEC-version (double galvanic isolated IEC-male for TV) and as F-Version (double galvanic isolated F-female for TV)
- Cover plate SAD-03, white colored RAL 9010, with removable blind cap at the radio-port (Item No. 53092) (please see last page)
- Surface-mount frame SAD-165, 80 x 80 x 33 mm, white colored RAL 9010, for multimedia outlets (Item No. 53094) (please see last page)



1-PORT AND 2-PORT BROADBAND COAX OUTLETS UP TO 2 GHz

PRODUCT OVERVIEW

“btv-0x-UPC series”

“btv-0x-UPC series”			Terminated type				Loop-through type		
Parameter		Frequency [MHz]	btv-01-UPC	btv-02-UPC	btv-03-UPC	btv-04-A	btv-05-UPC	btv-06-UPC	btv-07-UPC
Through loss [dB]	IN – OUT	5 – 12	–	–	–	–	4.0 ± 0.3	4.0 ± 0.3	4.0 ± 0.3
		12 – 470	–	–	–	–	3.7 ± 0.4	3.7 ± 0.4	3.7 ± 0.4
		470 – 1006	–	–	–	–	4.0 ± 0.4	4.0 ± 0.4	4.0 ± 0.4
		1006 – 1700	–	–	–	–	4.6 ± 0.5	4.6 ± 0.5	4.6 ± 0.5
		1700 – 2000	–	–	–	–	5.2 ± 0.8	5.2 ± 0.8	5.2 ± 0.8
Tap loss [dB]	IN – PORT 1	5 – 12	0.2 ± 0.2	0.2 ± 0.2	4.0 ± 0.3	4.0 ± 0.3	4.0 ± 0.3	7.4 ± 0.8	7.4 ± 0.8
		12 – 470	0.2 ± 0.2	0.2 ± 0.2	3.7 ± 0.4	3.7 ± 0.4	3.7 ± 0.4	7.3 ± 0.8	7.3 ± 0.8
		470 – 1006	0.2 ± 0.2	0.2 ± 0.2	4.0 ± 0.4	4.0 ± 0.5	4.0 ± 0.4	8.0 ± 0.8	8.0 ± 0.8
		1006 – 1400	–	–	–	4.2 ± 0.5	–	–	–
		1400 – 1700	–	–	–	4.5 ± 0.6	–	–	–
		1006 – 1700	0.4 ± 0.2	0.4 ± 0.2	4.6 ± 0.5	–	4.6 ± 0.5	9.0 ± 1.0	9.0 ± 1.0
	IN – PORT 2	1700 – 2000	0.5 ± 0.3	0.5 ± 0.3	5.2 ± 0.8	5.2 ± 1.0	5.2 ± 0.8	10.0 ± 1.5	10.0 ± 1.5
		5 – 12	–	–	4.0 ± 0.3	4.0 ± 0.3	–	7.4 ± 0.8	7.4 ± 0.8
		12 – 470	–	–	3.7 ± 0.4	3.7 ± 0.4	–	7.3 ± 0.8	7.3 ± 0.8
		470 – 1006	–	–	4.0 ± 0.4	4.0 ± 0.5	–	8.0 ± 0.8	8.0 ± 0.8
			–	–	–	4.2 ± 0.5	–	–	–
			–	–	–	4.5 ± 0.6	–	–	–
		1006 – 1700	–	–	4.6 ± 0.5	–	–	9.0 ± 1.0	9.0 ± 1.0
		1700 – 2000	–	–	5.2 ± 0.8	5.2 ± 1.0	–	10.0 ± 1.5	10.0 ± 1.5
Isolation [dB]	PORT – PORT	5 – 12	–	–	25	25	–	25	25
		12 – 470	–	–	30	30	–	30	30
		470 – 1006	–	–	25	25	–	25	25
		1006 – 1700	–	–	20	20 typ., 19 min.	–	20	20
		1700 – 2000	–	–	15	15 typ., 14 min.	–	15	15
	OUT – PORT	5 – 12	–	–	–	–	25	25	25
		12 – 470	–	–	–	–	30	30	30
		470 – 1006	–	–	–	–	25	25	25
		1006 – 1700	–	–	–	–	20	20	20
		1700 – 2000	–	–	–	–	15	15	15
Return loss [dB]	ALL	5 – 12	≥ 16	≥ 16	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14
		12 – 300	≥ 20	≥ 20	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16
		300 – 1006	≥ 18	≥ 18	≥ 16	≥ 16	≥ 16	≥ 16	≥ 16
		1006 – 1700	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14	≥ 14
		1700 – 2000	≥ 12	≥ 12	≥ 12	≥ 12	≥ 12	≥ 12	≥ 12
MoCA reduces isolation ⁽¹⁾ (dB max)		1200 – 1625	–	–	20	20	22	22	22
Intermodulation ⁽²⁾ (dBμV min)			115	115	115	115	115	115	115
IEC-male TV		Yes	–	Yes	–	Yes	Yes	–	
IEC-female radio		–	–	Yes	–	–	Yes	–	
Amount F-females		–	1	–	2	–	–	2	

Item No.

53005

53006

53007

53008

53009

53010

53011

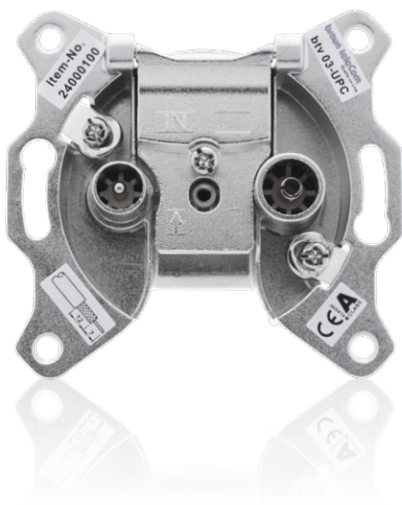
⁽¹⁾ With open input (accordant POE-Filter)⁽²⁾ With test signals P = 60 MHz, Q = 65 MHz applied at DATA, TV OUT respectively, intermodulation distortion level is ≤ 15 dBuV at 2 P = 120 MHz, at P + Q = 125 MHz, at 2 Q = 130 MHz According to 60728-4

PRODUCT OVERVIEW

“btv-0x-UPC Series”

ADDITIONAL INFORMATION

- Clamp technology for inner conductor with diameter 0.4 – 1.2 mm
- Suitable for coax cables with diameter 4.1 – 7.2 mm
- Cover plate SAD-03, white colored RAL 9010, with removable blind cap at the radio-port (Item No. 53092) (please see last page)
- Surface-mount frame SAD-165, 80 x 80 x 33 mm, white colored RAL 9010, for multimedia outlets (Item No. 53094) (please see last page)



2-PORT MULTIMEDIA BROADBAND COAX OUTLETS WITH DATA-PORT

PRODUCT OVERVIEW

“btv-MMD-204-s”

Parameter		Frequency [MHz]	btv-MMD-204-s
Insertion loss [dB]	IN - OUT	5 - 470	-
		470 - 862	-
		862 - 1218	-
		1218 - 1800	-
	IN - DATA	5 - 1218	4 ± 1
		1218 - 1800	4 ± 1.5
	IN - TV	5 - 65	50 min.
		65 - 85	47 min.
		109 - 862	4.5 ± 1 (1)
	Isolation [dB min.]	TV -DATA	5 - 65
65 - 85			55
85 - 109			55 - 35
109 - 204			35
204 - 1800			30
OUT - TV		5 - 65	-
		65 - 85	-
		85 - 109	-
		109 - 204	-
		204 - 1800	-
OUT -DATA		5 - 85	-
		85 - 204	-
		204 - 1800	-
Return loss [dB min.]	IN	5 - 1800	16 (at 5 - 94 MHz -1.5 dB/Oct., 10 dB min.) ⁽²⁾
	OUT	5 - 1800	-
	TV	109 - 862	12.5 (at 109 - 188 MHz -1.5 dB/Oct., 10 dB min.) ⁽²⁾
	DATA	5 - 1800	18 (at 5 - 94 MHz -1.5 dB/Oct., 10.5 dB min.)
Impedance [Ω]			75
Operating temperature range [°C]			0 - 55
Harmonic distortion [dBQV]	before surge		< 2
	after 25 VDC surge		< 15
	after Test 1 kV surge immunity		< 15

Item No.

53012

- (1) At the filter edges 109 MHz & 862 MHz additionally 0.5 dB attenuation
 (2) At the filter edges 65/85 MHz & 109 MHz & 862 MHz up to 3 dB reduced
 (3) With 120 dBQV test signals at all ports:
 Test 1: f1 = 60 MHz, f2 = 65 MHz, IM2 = 2 x f1 + f1+f2 + 2 x f2
 Test 2: f1 = 199 MHz, f2 = 204 MHz, IM2 = 2 x f1 + f1+f2 + 2 x f2

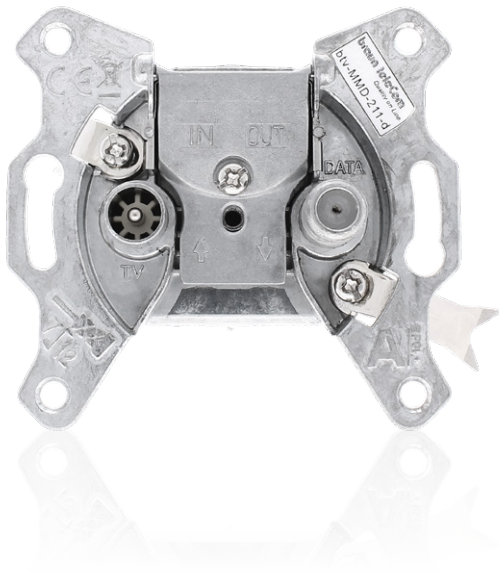


PRODUCT OVERVIEW

“btv-MMD-204-s”

ADDITIONAL INFORMATION

- Dimensions according to DIN 45330
- Quick and comfortable installation thanks to push-pin clamp technology
- High protection against any LTE immission
- Clamp technology für inner conductors with a diameter of 0,4 – 1.2 mm
- Suitable for coaxial cables with a diameter of 4,1 – 7.2 mm
- Surge immunity 1 kV according to IEC 61000-4-5 level 2
- Broadband DATA-port 5 – 1.800 MHz, selective TV-port 109 – 862 MHz
- Ready for DOCSIS® 3.1
- Cover plate SAD-122 white colored RAL 9010 is not included
(Item No. 53093)



ACCESSORIES

SAD-03

Cover plate, white colored RAL 9010,
with removable blind cap at the radio-port

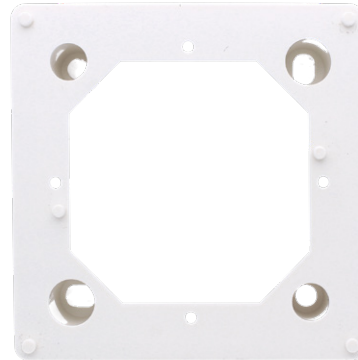
Item no. 53092



SAD-165

Surface-mount frame SAD-165,
80 x 80 x 33 mm, color white RAL 9010

Item no. 53094



SETS

Double galvanic isolated connection box, 5 – 2000 MHz, Input: F-male with ground connector, tap loss typ. 1 x 0.5 dB, intermodulation resistant according to DIN EN 60728-4, high screening according to Class A +10 dB, as bundle incl. ABS isolated plastic frame, white RAL 9010 & 2.0 m Cu grounding wire.

btv-DGIB-1-Set

Output 1x IEC-male

Item no. 53090

btv-DGIB-2-Set

Output 1x F-female

Item no. 53091



btv-DGIB-1-Set

