

Clever in details!

Description

The MATV filter socket is part of the new Antenna Outlet Socket Generation from Hirschmann:

- ▶ intelligent push-lock terminal 
- ▶ quick and easy mounting
- ▶ excellent electrical parameters
- ▶ absolutely reliable and durable - "Made in Germany"

Special features of the MATV filter sockets FS:

- ▶ double outlet socket, especially for the use in MATV or SMATV community networks or in single terrestrial systems
- ▶ according to RoHS, EN 50083-2 (class A), EN 50083-4 (methods of measurement)
- ▶ **FS 01:**
Single socket for decoupled branch lines or for the direct connection to single systems
- ▶ **FS 07/12:**
Pass-through socket for decoupled branch lines from the tap off or for the direct connection to single systems

PRODUCT INFORMATION

MATV filter socket

Double outlet

Single socket	Order No.
FS 01	940 115-001

Pass through socket	Order No.
FS 07	940 158-001
FS 12	940 116-001

Antennas

Signal Processing

Amplifiers

Multiswitches

Passive Components

Receivers

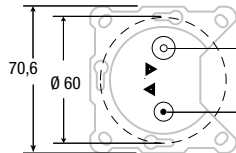
catTV

Plugs, Cables, Measuring Equipment

Technical Data

Mechanics

Outlets:



FM: IEC female (IEC 60169-2)

TV: IEC male (IEC 60169-2)

Screening attenuation	dB	class A (> 85 dB, EN 50083-2)
Weight	g	90
Package	mm	229 x 142 x 75 (wxhxd)

Connected load

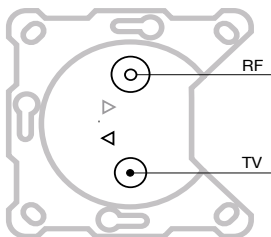
Connecting impedance	Ω	75
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Operating conditions

Temperature	°C	-25...+55, local fixed, weather protected (ETSI 300 019-1-3)
Reliability MTBF	h	>1.000.000 (Belcore @ 25° C)

Attenuation

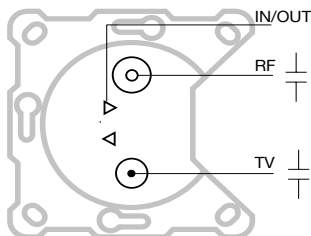
FS 01:



Isolation TV - RF

Return Loss IN
RF
TV

FS 07 / FS12:



Isolation OUT-TV

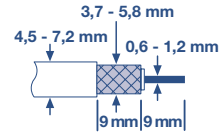
OUT-RF

TV-RF

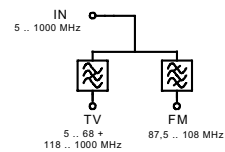
Return Loss

IN
OUT
RF
TV

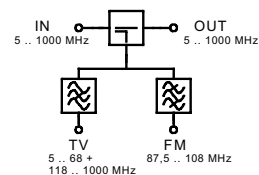
Recommended cable dimensions:



Schematic diagram FS 01:



Schematic diagram FS 07/012:



f (MHz)	DC	5	40 68	87,5	108	118	125		470		862	1000
			RK	FM				VHF		UHF		
Isolation			30	1,0				20		26		26
Return Loss			0,8	12	1,0	0,5		0,5		0,5		1,0
Isolation			110	10				10		10		
Return Loss			14(>10)	bei 40 MHz 40 dB min -1,5 dB/Oktave, jedoch min 10 dB				14(>10)	bei 40 MHz 40 dB min -1,5 dB/Oktave, -3 dB an den Flanken			

f (MHz)	DC	5	40 68	87,5	108	118	125		470		862	1000
			RK	FM				VHF		UHF		
Isolation			2,0	2,2				2,2		2,4		2,4
Return Loss			1,0	1,0				1,0		1,0		1,0
Isolation			30	9,0				30		30		30
Return Loss			40	12,0				30		40		40
Isolation			8,0	18,0		8,0		8,0		8,0		8,0
Return Loss			11,0	24,0		12,0		11,0		11,0		11,0
Isolation			25	bei 40 MHz 30 dB min -1,5 dB/Oktave				bei 40 MHz 40 dB min -1,5 dB/Oktave		bei 40 MHz 30 dB min -1,5 dB/Oktave		
Return Loss			25	bei 40 MHz 30 dB min -1,5 dB/Oktave				bei 40 MHz 30 dB min -1,5 dB/Oktave		bei 40 MHz 30 dB min -1,5 dB/Oktave		
Isolation			*	*				*				*
Return Loss			18(>10)	16(>14)				16(>12)				18(>14)
Return Loss			18(>10)	18(>16)				18(>14)				26(>14)
Return Loss			18(>10)					24(>16)				
Return Loss			*	*				*				*
Return Loss			14(>8)	**				**				**
Return Loss			14(>8)	**				**				**

* min 10 dB, -3 dB an den Filterflanken

** bei 40 MHz min 14 dB -1,5 dB/Oktave, -3 dB an der Flanke