

TV-RD-SAT 5-2400 MHz socket outlets - TECHNICAL CHARACTERISTICS

Coaxial TV-RD-SAT socket outlets

Scope

- connect user equipments to systems for the distribution of analogic or digital sound and video signals, via terrestrial, satellite or cable link, in the 5-2400 MHz frequency band
- permits the simultaneous connection of two devices (e.g. TV and SAT receiver, or TV and radio)
- can be used for satellite Internet applications and, thanks to the 5-40 MHz return channel, also for interactive functions (hotel communications and cable TV)
- the availability of single connection socket outlets allows the passage of d.c. current and control signals, and of through-line socket outlets with three different attenuation ratings and ensures optimal utilisation on any type of individual or central distribution configuration (see table overleaf).

The range

- 1 single connection socket outlet which allows d.c. current and control signals (24 V 500 mA max) to pass through the IEC 60169-2 female connector
- 3 through-line socket outlets with:
 - connection attenuation 10 dB
 - connection attenuation 15 dB
 - connection attenuation 20 dB

The through-line socket outlets can become end-of-line socket outlets if "closed" by the special terminal resistor 16330. They do not allow d.c. current and control signals (24 V 500 mA max) to pass through the line or on the user output.

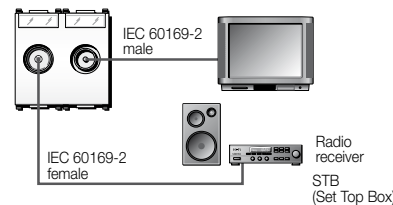
Technical specifications

- frequency range: 5-2400 MHz
- outputs: IEC 60169-2 male and female connectors
- return channel in the 5-40 MHz band
- shielding efficiency: A class
- cable dimensions:
 - internal wire \varnothing 3 mm max
 - external insulating sheath: \varnothing 5-7 mm

Some examples of supported system topologies

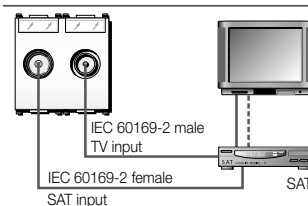
- Multiple socket outlets in cascade
- Multiple parallel connected socket outlets
- Combined cascade/parallel
- Multi-switch for satellite signal distribution
- Multi-switch for combined terrestrial and satellite signal distribution
- Combined cascade/parallel with IF-IF conversion unit for single-cable distribution of combined terrestrial and satellite signals
- Combined cascade/parallel with modular unit for feeding terrestrial and satellite programs in the 40-862 MHz band (terrestrial)

2-output TV-RD-SAT: how to connect



Programmes - Applications

- Terrestrial TV
- Terrestrial radio
- Cable TV (CATV)
- Interactive hotel communications



Programmes - Applications

- Terrestrial TV
- Satellite TV and radio

— Coaxial cable connection - - - - SCART cable connection

Conformity to Standard

EN 50083-1, EN 50083-4 Standards
EMC Directive
EN 50083-2 Standard

Attenuations

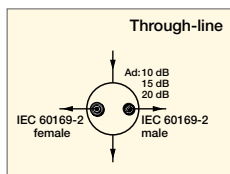
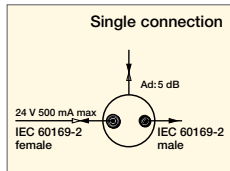
Socket type	Type of attenuation	Connector	Frequencies (MHz)					
			5-40	40-470	470-862	862-950	950-1750	1750-2400
Single connection 5 dB	Connection attenuation (dB)	IEC 60169-2 male IEC 60169-2 female	8 5	5 5	5 5	5,5 5,5	6 5,5	7 6
	Min. internal decoupling (dB)*		20	20	20	20	20	20
Through-line 10 dB	Connection attenuation (dB)	IEC 60169-2 male IEC 60169-2 female	11,5	10	10	10	10	11,5
	Throughpass attenuation (dB)		3,8	3	3	3	3,4	3,4
Through-line 15 dB	Min. internal decoupling (dB)*		20	20	20	20	20	20
	Connection attenuation (dB)	IEC 60169-2 male IEC 60169-2 female	14,5	15	15	15	15	15,5
Through-line 20 dB	Throughpass attenuation (dB)		2,2	2,2	2,2	2,2	2,4	3,2
	Min. internal decoupling (dB)*		20	20	20	20	20	20
Through-line 15 dB	Connection attenuation (dB)	IEC 60169-2 male IEC 60169-2 female	20	20	20	20	20	21
	Throughpass attenuation (dB)		2,2	1,3	1,5	1,6	2,5	3,2
Through-line 20 dB	Min. internal decoupling (dB)*		20	26	24	22	20	23

* Internal decoupling: isolation between IEC 60169-2 male and IEC 60169-2 female.

TV-RD-SAT 5-2400 MHz socket outlets - F-Type socket outlets

Coaxial TV-RD-SAT 5-2400 MHz socket outlet

20310.05	.B	.N	Coaxial TV-RD-SAT 5-2400 MHz socket outlet, single connection, 2 IEC 60169-2 male and female outputs, connection attenuation 5 dB - 2 modules. Allows the passage of d.c. current and control signals (24 V 500 mA max) through the female connector
20310.10	.B	.N	Coaxial TV-RD-SAT 5-2400 MHz socket outlet, through-line, 2 IEC 60169-2 male and female outputs, connection attenuation 10 dB - 2 modules
20310.15	.B	.N	As above, connection attenuation 15 dB
20310.20	.B	.N	As above, connection attenuation 20 dB



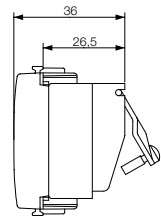
20310.05
grey



20310.05.B
white



20310.05.N
Next



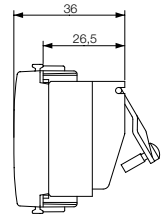
20310.10
20310.15
20310.20
grey



20310.10.B
20310.15.B
20310.20.B
white



20310.10.N
20310.15.N
20310.20.N
Next



Coaxial F-type socket outlet

20318	.B	.N	Coaxial socket outlet with F-type female connector (IEC 60169-24). For frequencies up to 2400 MHz. In/out connection with F-type male connector 01654
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Terminal resistor

16330	Z 75 Ω terminal resistor for TV-RD-SAT socket outlets line end, for frequencies up to 2400 MHz
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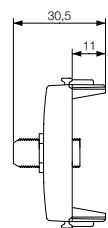
20318
grey



20318.B
white



20318.N
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16330