

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.

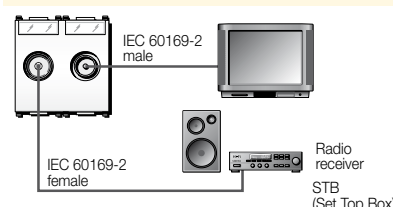
Technical specifications

- 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

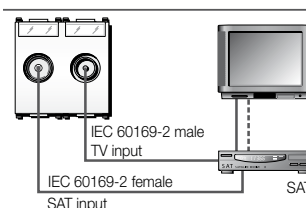
- Multiple socket outlets in cascade
- Multiple parallel connected socket outlets
- Combined cascade/parallel
- Multi-switch for satellite signal distribution
- Multi-switch for combined terrestrial and satellite signal distribution
- Combined cascade/parallel with IF-IF conversion unit for single-cable 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

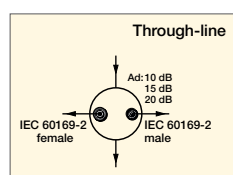
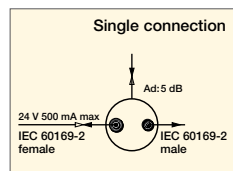
Socket type	Type of attenuation	Connector	Frequencies (MHz)					
			5-40	40-470	470-862	862-950	950-1750	1750-2400
Single connection 5 dB	Connection attenuation (dB)	IEC 60169-2 male IEC 60169-2 female	8 5	5 5	5 5	5,5 5,5	6 5,5	7 6
	Min. internal decoupling (dB)*		20	20	20	20	20	20
Through-line 10 dB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



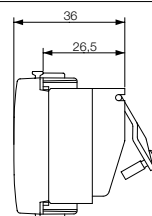
20310.05
grey



20310.05.B
white



20310.05.N
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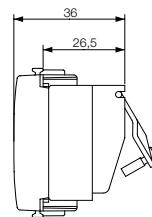
20310.10
20310.15
20310.20
grey



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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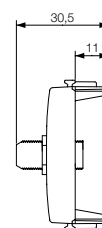
20318
grey



20318.B
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20318.N
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16330