

## 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.

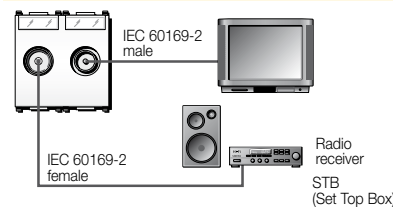
#### Technical specifications

- frequency range: 5-2400 MHz
- outputs: IEC 60169-2 male and IEC 60169-2 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

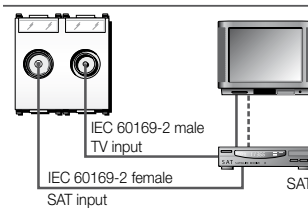
- Multiple socket outlets in cascade
- Multiple parallel connected socket outlets
- Combined cascade/parallel
- Multi-switch for satellite signal distribution
- Multi-switch for combined terrestrial and satellite signal distribution
- Combined cascade/parallel with IF-IF conversion unit for single-cable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

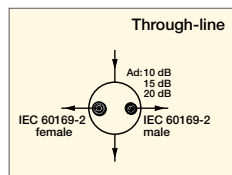
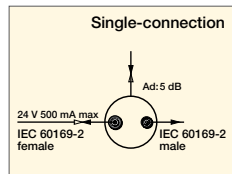
Socket type	Type of attenuation	Connector	Frequencies (MHz)					
			5-40	40-470	470-862	862-950	950-1750	1750-2400
Single connection 5 dB	Connection attenuation (dB)	IEC 60169-2 male IEC 60169-2 female	8 5	5 5	5 5	5,5 5,5	6 5,5	7 6
	Min. internal decoupling (dB)*		20	20	20	20	20	20
Through-line 10 dB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

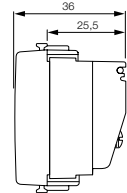
### Coaxial TV-RD-SAT 5-2400 MHz socket outlet

<b>14310.05</b>	<b>.SL</b>	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
<b>14310.10</b>	<b>.SL</b>	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
<b>14310.15</b>	<b>.SL</b>	As above, connection attenuation 15 dB
<b>14310.20</b>	<b>.SL</b>	As above, connection attenuation 20 dB



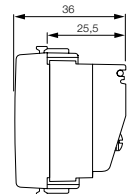
14310.05  
white

14310.05.SL  
Silver



14310...  
white

14310...SL  
Silver



### Coaxial TV 40-862 MHz socket outlet

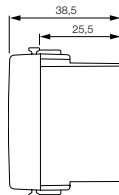
<b>*14313</b>	<b>.SL</b>	Coaxial TV 40-862 MHz socket outlet, single connection, with IEC 60169-2 female connector
<b>*14313.S</b>	<b>.SL</b>	As above, with two cord-grips
<b>*14314</b>	<b>.SL</b>	Through-line, with IEC 60169-2 female connector, throughpass attenuation 3 dB, connection attenuation 20 dB
<b>*14315</b>	<b>.SL</b>	Line-end, with IEC 60169-2 female connector, connection attenuation 20 dB



14313  
white



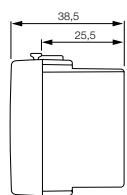
14313.SL  
Silver



14313.S  
white



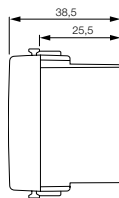
14313.S.SL  
Silver



14314  
white



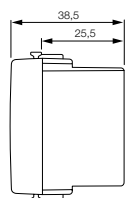
14314.SL  
Silver



14315  
white



14315.SL  
Silver



### Coaxial F-type socket outlet

<b>14318</b>	<b>.SL</b>	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

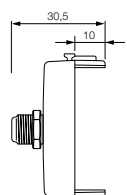
<b>16330</b>	Z 75 Ω terminal resistor for TV-RD-SAT socket outlets line end, for frequencies up to 2400 MHz
<b>*08175</b>	Z 75 Ω line-end terminal resistor, for TV 40-862 MHz socket outlets



14318  
white



14318.SL  
Silver



16330



08175