

### product type designation



### Antenna RF680A

SIMATIC RF600 antenna RF680A Linear or circular can be selected frequency range 865 to 928 MHz Broadband dimensions 198x 198x 60 mm (LxWxH) IP65, -25 to +75 °C.

suitability for operation

SIMATIC RF600

### radio frequencies

transmission frequency	865 ... 928 MHz
antenna gain compared to spherical radiator	
• with linear radiation	3.5 dB
• with circular radiation	3.5 dB

### electrical data

impedance	50 Ω
polarization	Linear (h/v), circular, combined
antenna gain compared to spherical radiator	
• with linear radiation	3.5 dB
• with circular radiation	3.5 dB
standing wave ratio (VSWR) / maximum	1.45
radiating angle of the antenna	
• horizontal	90°
• vertical	77°
type of electrical connection / of the antenna	RP-TNC
design of plug-in connection	male

### mechanical data

material	Pocan
color	Pastel turquoise
tightening torque / of the screw for securing the equipment / maximum	2 N·m
mounting distance	
• relating to metal surfaces / recommended / minimum	0 m

### ambient conditions

ambient temperature	
• during operation	-25 ... +75 °C
• during storage	-40 ... +85 °C
• during transport	-40 ... +85 °C
protection class IP	IP65
shock acceleration	300 m/s <sup>2</sup>
vibrational acceleration	100 m/s <sup>2</sup>

### design, dimensions and weights

width	198 mm
height	198 mm
depth	60 mm
net weight	690 g
fastening method	4 screws M4 according to VESA 100, optional with articulated bracket by using antenna mounting kit

wire length / of antenna cable	0 m
<b>product features, product functions, product components / general</b>	
product feature / silicon-free	Yes
<b>standards, specifications, approvals</b>	
certificate of suitability	CE (according to R&TTE), FCC (Title 47, Part 15.247), cULus
certificate of suitability	
• IECEX	No
reference code / according to IEC 81346-2:2019	TFB
<b>accessories</b>	
accessories	Antenna cables 1 to 40 m
<b>further information / internet links</b>	
internet link	
• to web page: selection aid TIA Selection Tool	<a href="https://support.industry.siemens.com/cs/ww/en/view/67384964">https://support.industry.siemens.com/cs/ww/en/view/67384964</a>
• to website: Industrial communication	<a href="http://www.siemens.com/ident/rfid">http://www.siemens.com/ident/rfid</a>
• to website: Industry Mall	<a href="https://mall.industry.siemens.com">https://mall.industry.siemens.com</a>
• to website: Information and Download Center	<a href="http://www.siemens.com/industry/infocenter">http://www.siemens.com/industry/infocenter</a>
• to website: Image database	<a href="http://automation.siemens.com/bilddb">http://automation.siemens.com/bilddb</a>
• to website: CAx-Download-Manager	<a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>
• to website: Industry Online Support	<a href="https://support.industry.siemens.com">https://support.industry.siemens.com</a>

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