

	Produktspezifikation <b>RAD-ISM-2400-ANT-PAN-8-0</b> 28 67 610	Blatt 4 von 7
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## 5 Anhänge

### 5.1 Anhang A



#### SUHNER® PLANAR ANTENNA FOR WIRELESS COMMUNICATION

##### SPA 2400/75/8/0/V

###### Technical Data

###### Electrical Properties

Frequency range	2300 - 2800 MHz
Impedance	50 Ω
VSWR	1.5
Polarization	linear, vertical
Gain	7.5 dBi
3 dB beamwidth horizontal	75°
3 dB beamwidth vertical	70°
Downtilt	0°
Front to back ratio	20 dB
Max. power	75 W (CW) at 25°C



###### Mechanical Properties

Dimensions	101 x 80 x 20 mm (3.97" x 3.15" x 0.79")
Weight	0.13 kg (0.29 lbs.)
Radome material	ASA
Radome color	RAL 7035 (light-grey)
Operating temperature range	-40°C to +80°C
Storage temperature range	-40°C to +80°C
Windload	15 N at 160km/h (100mph)

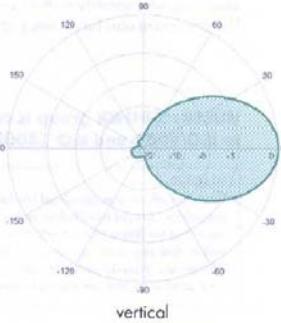
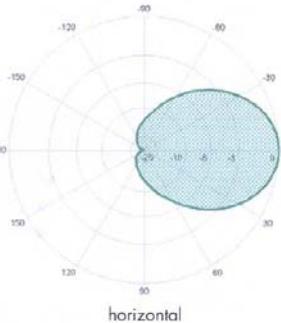
###### Available Types

Article no.	
1324.19.0032	23019483 SMA female
1324.26.0024	23002469 TNC female
1324.99.0007	23003467 TNC female reverse pictail (0.3m)

###### Mounting Hardware

Mast mounting material (1 metal bands) included, mast diameter 40-60 mm (1.57" - 2.36")

###### Radiation Pattern



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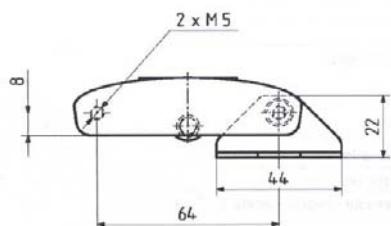
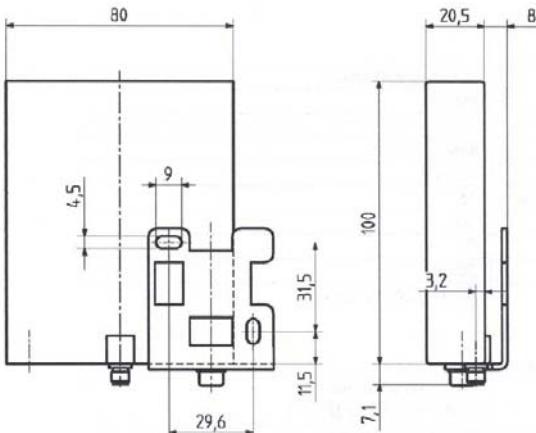
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## SUHNER® PLANAR ANTENNA FOR WIRELESS COMMUNICATION

### SPA 2400/75/8/0/V

#### Dimensions (mm)



Mounting and security instructions see HUBER+SUHNER document number 01.02.0777.  
The document can be ordered at HUBER+SUHNER AG, Switzerland.

#### HUBER+SUHNER group is certified according to ISO 9001 and ISO 14001.

##### WAIVERI

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HUBER+SUHNER AG  
Wired Solutions + Networks  
Communication + Power Networks  
CH-9100 Herisau, Switzerland  
Tel.: +41 (0)71 353 41 11  
Fax: +41 (0)71 353 47 51  
[www.hubersuhner.com](http://www.hubersuhner.com)

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## 5 Anhänge

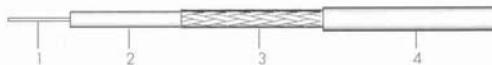
### 5.1 Anhang A

#### Teflon®-Koaxial-Kabel 50 Ohm

##### Allgemeine technische Daten:

Impedanz	50 $\Omega$
Kapazität PTFE	94 pF/m
Kapazität PFA / FEP	96 pF/m
Signalfortpflanzungsgeschw. PTFE	71 % der Lichtgeschwindigkeit
Signallaufzeit PTFE	4.7 ns/m
Signalfortpflanzungsgeschw. PFA / FEP	69 % der Lichtgeschwindigkeit
Signallaufzeit PFA / FEP	4.8 ns/m
Isolationswiderstand	>10 <sup>8</sup> M $\Omega$ m
Min. Biegeradius statisch	5 x Ø
Min. Biegeradius dynamisch	15 x Ø
Temperaturbereich	-100°C bis +260°C (+200°C FEP)

##### Einfach geschirmte Kabel Single screened cables

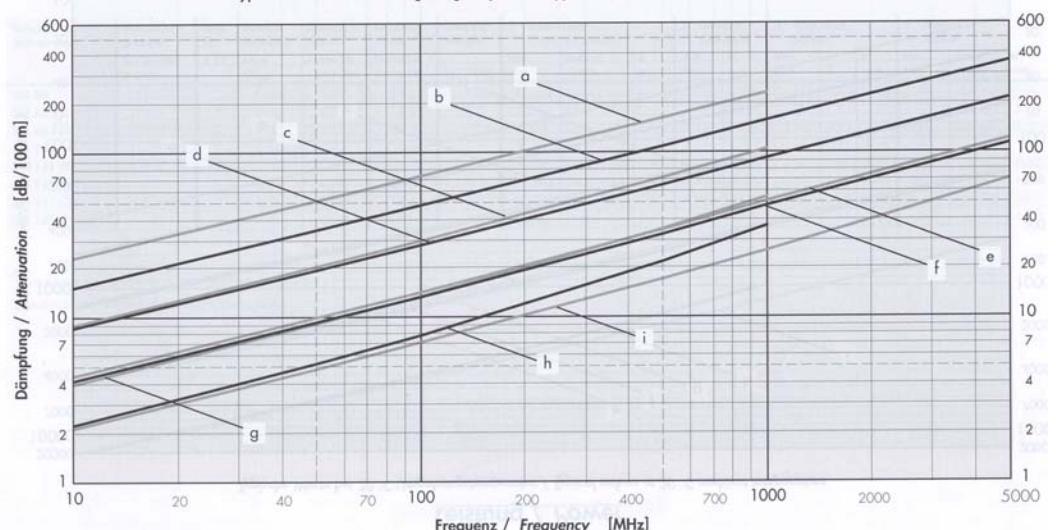


Suhner Typ Suhner type	Verbinder- gruppe Connector group	Imp. Tol. $\pm \Omega$	Betrieb Working	Dämpf. Attenu.	Leistung Power	Gewicht Weight	1 Innenleiter Centre conductor	2 Dielektr. Dielectric	3 Abschirm. Screen	4 Mantel Jacket
							Mat. Mat.	Mat. Mat.	Mat. Mat.	Farbe Colour
K 01152-07	U1/k	5	0.4	C4 a	C5 a	0.4	CuAg	Litze/strand	0.19	PFA
RG 178 B/U	U1	2	1.0	C4 b	C5 b	0.8	SiCuAg	Litze/strand	0.30	PTFE
RG 196 A/U	U1	2	0.5	C4 b	C5 b	0.9	SiCuAg	Litze/strand	0.30	PTFE
RG 188 A/U	U2	2	0.8	C4 d	C5 d	1.7	SiCuAg	Litze/strand	0.54	PTFE
RG 188 A/U-01	U2	2	1.4	C4 c	C5 c	1.6	SiCuAg	Litze/strand	0.54	FEP
RG 316 /U	U2	2	0.9	C4 d	C5 d	1.6	SiCuAg	Litze/strand	0.54	PTFE
RG 316 /U-08	U2	2	0.9	C4 d	C5 d	1.6	SiCuAg	Litze/strand	0.54	PTFE
RG 316 /U-09	U2	2	0.9	C4 d	C5 d	1.6	SiCuAg	Litze/strand	0.54	PTFE
RG 316 /U-10	U2	2	0.9	C4 d	C5 d	1.6	SiCuAg	Litze/strand	0.54	PTFE
RG 141 A/U	U7	2	1.7	C4 f	C5 f	4.5	SiCuAg	Draht/wire	0.95	PTFE
RG 303 /U	U7	2	2.5	C4 f	C5 f	4.5	SiCuAg	Draht/wire	0.95	PTFE
K 07252	*	2	6.7	C4 h	C5 h	19.4	CuAg	Litze/strand	2.46	FEP
RG 165 /U	U28	2	4.1	C4 i	C5 i	20.4	CuAg	Litze/strand	2.46	PFA

\* Verbinde auf Anfrage / Connectors on request

#### Dämpfung / Attenuation

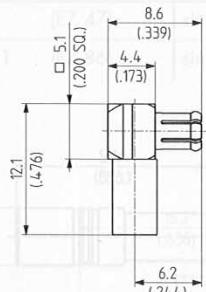
Typische Werte bei 20 °C Umgebungstemperatur / Typical values at 20 °C ambient temperature



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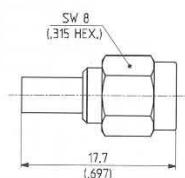
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## 5.2 Anhang B

<ul style="list-style-type: none"> <li>&gt; for flexible cables</li> <li>&gt; cable entry crimp</li> <li>&gt; centre contact soldered</li> <li>&gt; taper sleeves see page 411</li> </ul> <ul style="list-style-type: none"> <li>&gt; for flexible cables</li> <li>&gt; SUHNER® full crimp</li> <li>&gt; taper sleeves see page 411</li> </ul>						
SUHNER TYPE	Article No.	Cable Group (example)	Packaging	Plating Body	Assembly Instruction	Crimp Insert
16 MCX-50-1-7 / 111 NH	23000443	U1 (EF 178)	bulk 100 pcs.	gold	27319	A
16 MCX-50-1-7 / 133 NH	22658308	U1 (EF 178)	bulk 100 pcs.	SUCOPLATE®	27319	A
16 MCX-50-2-11 / 111 NH	23000457	U4 (EF 316 D)	bulk 100 pcs.	gold	27102	A
16 MCX-50-2-11 / 133 NH	22650803	U4 (EF 316 D)	bulk 100 pcs.	SUCOPLATE®	27102	A
16 MCX-50-2-14 / 111 NH	23000445	U2 (EF 316)	bulk 100 pcs.	gold	27102	A
16 MCX-50-2-14 / 133 NH	22660001	U2 (EF 316)	bulk 100 pcs.	SUCOPLATE®	27102	A

## 5.3 Anhang C

- > for flexible cables
- > cable entry crimp
- > centre contact soldered
- > taper sleeves see page 411



SUHNER TYPE	Article No.	Cable Group (example)	Packaging	Plating Body	Assembly Instruction	Crimp Insert
11 SMA-50-1-4 / 111 NE	22645871	U1 (RG 178 B/U)	single	gold	27061	A
11 SMA-50-2-5 / 111 NH	22646312	U2 (RG 316/U)	bulk 100 pcs.	gold	27266	A
11 SMA-50-2-6 / 111 NH	22650740	U4 (K 02252 D)	bulk 100 pcs.	gold	27266	A
11 SMA-50-2-27 / 111 NH	22652923	U2 (RG 316/U)	bulk 100 pcs.	gold	27164	1 A 1)
11 SMA-50-2-41 / 133 NH	22652160	U4 (K 02252 D)	bulk 100 pcs.	SUCOPLATE® <sup>2)</sup>	3069	A
11 SMA-50-2-42 / 133 NH	22648783	U2 (RG 316/U)	bulk 100 pcs.	SUCOPLATE® <sup>2)</sup>	27266	A
11 SMA-50-2-55 / 199 NE	22641377	U2 (RG 316/U)	single	stainless steel	3069	A
11 SMA-50-2-56 / 199 NH	22651486	U4 (K 02252 D)	bulk 100 pcs.	stainless steel	3069	A

1) SUHNER® full crimp

2) use torque wrench 74 Z-0-0-79

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