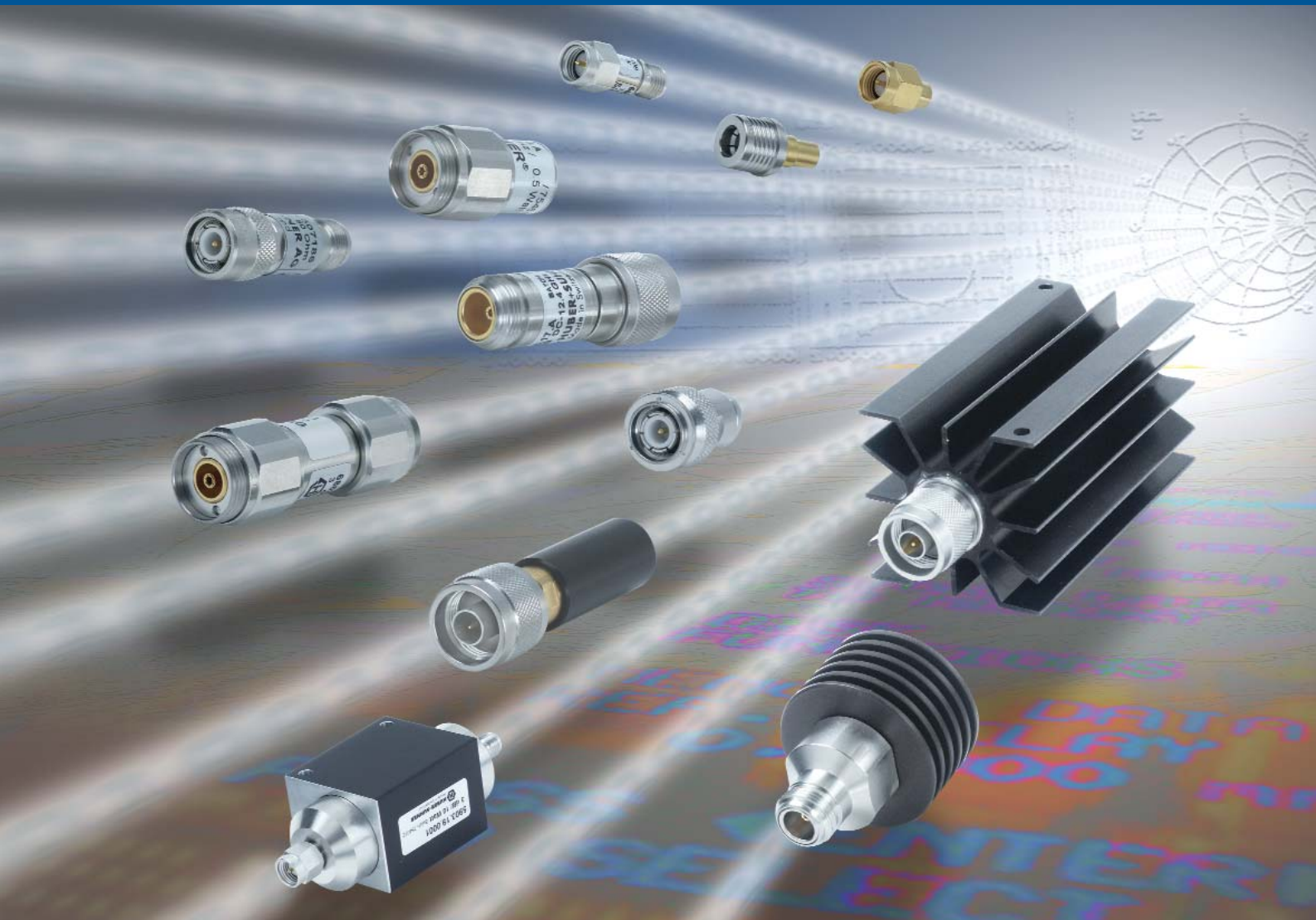




# SUHNER® RF AND MICROWAVE COMPONENTS SHORT FORM CATALOGUE

Edition 2003



HUBER+SUHNER

Excellence in Connectivity Solutions

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# HUBER+SUHNER

Your leading manufacturer of RF and microwave interconnections.

## The comprehensive RF and microwave product range covers the categories:

- Cables
- Connectors
- Cable assemblies
- **Components: Attenuators, Terminations and other Coaxial Products**
- Lightning protectors

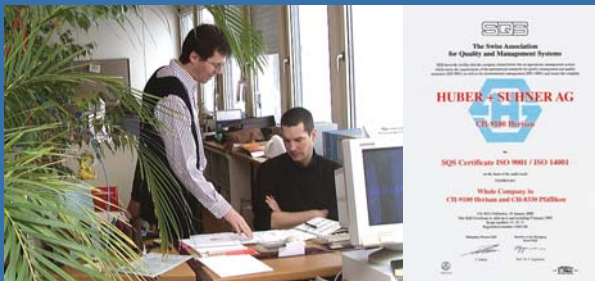
Over 25 years of experience means excellence in dedicated standard products as well as customised solutions.

## Benefit from Huber+Suhner core competencies:

- RF and microwave technology
- Material technology including plastics and plating
- Precision engineering and manufacturing
- Production including manufacturing, assembling and testing
- Global presence for support and sales

Thanks to our unique in-house capabilities we are able to support you from the concept stage to the realisation of your project:

### Acquisition and sales support



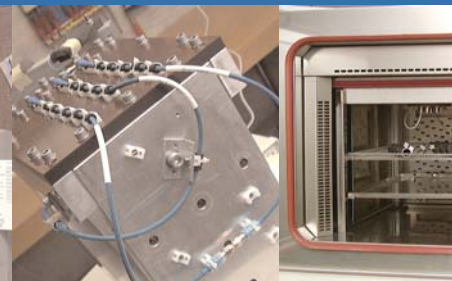
- Direct contacts
- Group network
- Local expertise
- Design-in strength

### Design and engineering



- Solution-minded
- Combining knowledge, experience and simulation
- Project expertise

### Prototyping and Qualification



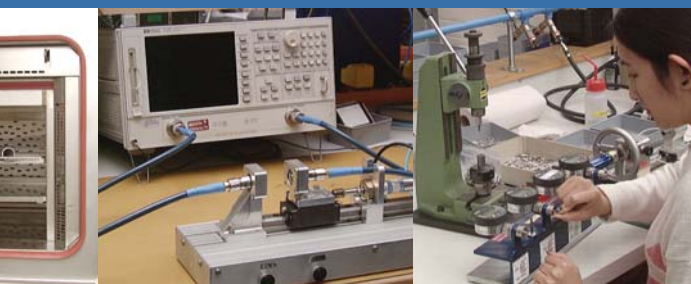
- In-house express fabrication
- RF and mechanical type approval
- Environmental testing



RF customers profit from the profound know-how of the HUBER + SUHNER engineers and from the Group's network of product specialists.

Highest quality standards and reliability are HUBER+SUHNER's top priorities.

#### Manufacturing and assembling



#### Logistics and after sales



- Machining and plating shops
- Cable manufacturing shops
- Components and cable assembling shops
- RF and mechanical testing

- Continuous customer care
- On-going support
- Dedicated supplier base

# Terminations

## Product description

HUBER+SUHNER Terminations are employed in very different fields of RF and microwave technology and excellently meet the requirements of:

- Design and Engineering
- Test and Measurement
- Build-in items for systems




Terminations are mainly used to terminate transmission lines in their characteristic impedance to avoid RF wave reflections. Reflections also cause distortion of information.



## Features and benefits

- Broadband operationability
- Low and medium power types
- All connectors meet the relevant IEC / MIL / CECC standards
- High repeatability
- Custom designs available on request

## Standard terminations, low power, 50 Ω

Connector series	Frequency range DC to (GHz)	VSWR max.	Power rating (W)	SUHNER type	Article number	
MCX (male)	2	1.20	0.5	65 MCX-50-0-1	22550162	
MCX (female)	2	1.20	0.5	65 MCX-50-0-31	22550163	
SMA (male)	2	1.25	1.0	65 SMA-50-0-3	22643999	
SMA (male) <sup>e</sup>	6	1.25	1.0	65 SMA-50-0-20	23035247	
SMA (male) <sup>c, e</sup>	6	1.25	1.0	65 SMA-50-0-21	23037139	
SMA (male)	18	1.25	1.0	65 SMA-50-0-1	22640162	
SMA (female) <sup>e</sup>	6	1.15	1.0	65 SMA-50-0-35	23015765	
SMA (female)	18	1.25	1.0	65 SMA-50-0-31	22550158	
SMB (male)	4	1.40	0.5	65 SMB-50-0-1	22550111	
SMB (female)	4	1.40	0.5	65 SMB-50-0-31	22640230	






<sup>c</sup> = product with chain

<sup>e</sup> = economy design

Detailed specification sheets for each item are available on request.

## Standard terminations, low power, 50 Ω

cont.





Connector series	Frequency range DC to (GHz)	VSWR max.	Power rating (W)	SUHNER type	Article number	
SMC (male)	4	1.20	0.5	65 SMC-50-0-1	22550113	
SMC (male) <sup>e</sup>	6	1.15	1.0	65 SMC-50-0-2	23038102	
SMC (female)	4	1.20	0.5	65 SMC-50-0-31	22550114	
QMA (male) <sup>e</sup>	6	1.15	1.0	65 QMA-50-0-2	23024831	
QMA (male) <sup>c,e</sup>	6	1.15	1.0	65 QMA-50-0-3	23023110	
QMA (female) <sup>e</sup>	6	1.15	1.0	65 QMA-50-0-4	23038371	
BMA (female)	18	1.45	0.5	65 BMA-50-0-1	22648598	
BNC (male)	1	1.10	1.0	65 BNC-50-0-7	22550235	
BNC (male)	2	1.20	1.0	65 BNC-50-0-1	22550004	
BNC (male) <sup>c</sup>	2	1.20	1.0	65 BNC-50-0-2	22550141	
BNC (female)	2	1.20	1.0	65 BNC-50-0-31	22550010	
BNC (female) <sup>c</sup>	2	1.20	1.0	65 BNC-50-0-35	22648680	
TNC (male)	1	1.10	0.5	65 TNC-50-0-107	22651614	
TNC (male)	1	1.10	1.0	65 TNC-50-0-7	22642741	
TNC (male)	2	1.20	1.0	65 TNC-50-0-1	22640680	
TNC (male) <sup>c</sup>	2	1.20	1.0	65 TNC-50-0-5	22659509	
TNC (female)	2	1.20	1.0	65 TNC-50-0-31	22640683	
N (male)	1	1.10	0.3	65 N-50-0-7	22646079	
N (male)	2	1.10	2.0	65 N-50-0-15	22650047	
N (male)	2	1.22	1.0	65 N-50-0-17	22659662	
N (male)	4	1.20	1.0	65 N-50-0-1	22550091	
N (male)	6	1.20	1.0	65 N-50-0-11	22550095	
N (male) <sup>e</sup>	6	1.20	1.0	65 N-50-0-51	23034002	
N (female)	6	1.20	1.0	65 N-50-0-31	22550207	
QN (male) <sup>e</sup>	6	1.20	1.0	65 QN-50-0-1	23033699	
7/16 (male)	2	1.20	1.0	65 716-50-0-3	22652596	
7/16 (male)	4	1.20	2.0	65 716-50-0-2	22648281	
7/16 (female)	4	1.20	2.0	65 716-50-0-31	22648282	

<sup>c</sup> = product with chain

<sup>e</sup> = economy design

Detailed specification sheets for each item are available on request.






## Standard terminations, low power, 75 Ω

Connector series	Frequency range DC to (GHz)	VSWR max.	Power rating (W)	SUHNER type	Article number	
MCX (male)	2.0	1.30	0.5	65 MCX-75-0-1	22649865	
MCX (female)	2.0	1.30	0.5	65 MCX-75-0-31	22650762	
BNC (male)	1.0	1.10	1.0	65 BNC-75-0-1	22550055	
BNC (male) <sup>c</sup>	1.0	1.10	1.0	65 BNC-75-0-2	22550058	
BNC (male)	1.0	1.10	1.0	65 BNC-75-0-7	22650006	
BNC (female)	1.0	1.10	1.0	65 BNC-75-0-31	22550036	
TNC (male)	1.0	1.10	1.0	65 TNC-75-0-1	22543883	
TNC (female)	1.0	1.10	1.0	65 TNC-75-0-31	22550152	
N (male)	1.3	1.05	1.0	65 N-75-0-11	22550107	

<sup>c</sup> = product with chain

## Standard terminations, medium power, 50 Ω





6 Watt

Connector series	Frequency range DC to (GHz)	VSWR max.	Power rating (W)	SUHNER type	Article number	
SMA (male)	6.0	1.25	6	6506.19.0001	22659462	
SMA (male)	12.4	1.25	6	6506.19.A	22550257	
SMA (female)	12.4	1.25	6	6506.19.B	22550256	
BNC (male)	4.0	1.10	6	6506.01.A	22550260	
BNC (female)	4.0	1.10	6	6506.01.B	22550259	
TNC (male)	12.4	1.30	6	6506.26.A	22550255	
N (male)	6.0	1.25	6	6506.17.0001	22659464	
N (male)	12.4	1.25	6	6506.17.A	22550258	
N (female)	12.4	1.25	6	6506.17.B	22550253	
7/16 (male)	8.0	1.20	6	6506.41.A	22550272	
7/16 (female)	8.0	1.20	6	6506.41.B	22550271	

Detailed specification sheets for each item are available on request.

## Standard terminations, medium power, 50 Ω




15 Watt

Connector series	Frequency range DC to (GHz)	VSWR max.	Power rating (W) <sup>z</sup>	SUHNER type	Article number	
SMA (male)	12.4	1.25	15	6515.19.A	22544579	
SMA (female)	12.4	1.25	15	6515.19.B	22544580	
BNC (male)	4.0	1.10	15	6515.01.A	22550273	
BNC (female)	4.0	1.10	15	6515.01.B	22550265	
N (male)	12.4	1.25	15	6515.17.A	22550264	
N (female)	12.4	1.25	15	6515.17.B	22550263	
7/16 (male)	8.0	1.20	15	6515.41.A	22544577	
7/16 (female)	8.0	1.20	15	6515.41.B	22544578	

<sup>z</sup> = convection cooled

## Standard terminations, medium power, 50 Ω

25 Watt

Connector series	Frequency range DC to (GHz)	VSWR max.	Power rating (W) <sup>z</sup>	SUHNER type	Article number	
SMA (male)	2	1.10	25	6525.19.AB	22643660	
SMA (male)	5	1.20	25	6525.19.AA	22643659	
SMA (female)	5	1.20	25	6525.19.BA	22643655	
N (male)	2	1.10	25	6525.17.AB	22643785	
N (male)	5	1.20	25	6525.17.AA	22642248	
N (female)	2	1.10	25	6525.17.BB	22643787	
N (female)	5	1.20	25	6525.17.BA	22643786	
7/16 (male)	2	1.10	25	6525.41.AB	22643788	
7/16 (male)	5	1.20	25	6525.41.AA	23007076	
7/16 (female)	2	1.10	25	6525.41.BB	22643790	
7/16 (female)	5	1.20	25	6525.41.BA	23007075	



<sup>z</sup> = convection cooled

Detailed specification sheets for each item are available on request.



## Standard terminations, medium power, 50 Ω

50 Watt



Connector series	Frequency range DC to (GHz)	VSWR max.	Power rating (W) <sup>Y,Z</sup>	SUHNER type	Article number	
N (male)	1	1.08	50	6550.17.0002	22646865	
N (male)	2	1.10	50	6550.17.AB	22643791	
N (male)	5	1.20	50	6550.17.AA	22641938	
N (female)	2	1.10	50	6550.17.BB	22643793	
7/16 (male)	2	1.10	50	6550.41.AB	22643795	
7/16 (female)	2	1.07	50	6550.41.0001	22659656	
7/16 (female)	2	1.10	50	6550.41.BB	22643797	

*Y* = 50 Watt, if the termination is mounted on a heat sink with a max. thermal resistance ( $R_{th}$ ) of 5K/Watt. Without heat sink these termination are applicable up to 25 Watt.

*Z* = convection cooled

## Standard terminations, medium power, 50 Ω


60 Watt

Connector series	Frequency range DC to (GHz)	VSWR max.	Power rating (W) <sup>Z</sup>	SUHNER type	Article number	
N (male)	2	1.10	60	6560.17.AB	22643799	
N (male)	5	1.20	60	6560.17.AA	22643798	
N (female)	2	1.10	60	6560.17.BB	22643801	
N (female)	5	1.20	60	6560.17.BA	22643800	
7/16 (male)	2	1.10	60	6560.41.AB	22643803	
7/16 (male)	5	1.20	60	6560.41.AA	23008377	
7/16 (female)	2	1.10	60	6560.41.BB	22643805	
7/16 (female)	5	1.20	60	6560.41.BA	23010487	

*Z* = convection cooled

## Standard terminations, medium power, 50 Ω







100 Watt

Connector series	Frequency range DC to (GHz)	VSWR max.	Power rating (W) <sup>Z</sup>			
N (male)	3.5	1.25	100	6599.17.0001	22646862	




*Z* = convection cooled

Detailed specification sheets for each item are available on request.

## Precision terminations, low power, 50 Ω

Connector series	Frequency range DC to (GHz)	VSWR max.	Power rating (W)	SUHNER type	Article number	
SMA (male)	18.0	1.10	0.75	6500.19.A	22645868	
SMA (female)	18.0	1.15	0.75	6500.19.B	22645869	
BNC (male)	4.0	1.12	0.5	6500.01.0003	23000974	
BNC (female)	4.0	1.12	0.5	6500.01.0002	23008378	
TNC (male)	12.4	1.26	0.5	6500.26.0003	22659852	
TNC (female)	12.4	1.26	0.5	6500.26.0002	22659846	
N (male)	18.0	1.08	0.5	6500.17.A	22550203	
N (female)	18.0	1.08	0.5	6500.17.B	22550202	
PC7	18.0	1.07	0.5	6500.28.A	22543740	
7/16 (male)	8.0	1.10	1.0	6500.41.A	22650018	
7/16 (female)	8.0	1.10	1.0	6500.41.B	22650017	

## Feed through terminations, low power, 50 Ω and 75 Ω

Connector series	Frequency range DC to (GHz)	VSWR max.	Power rating (W)	SUHNER type	Article number	
BNC (m/f)	0.5	1.25	2.0	6701.01.A	22543741	
BNC (m/f)	1.0	1.25	0.5	6701.01.B	22543742	
N (m/f)	0.5	1.25	0.5	6701.17.A	22644916	
<b>75 Ω types</b>						
BNC 75 Ω (m/f)	0.4	1.2	0.5	6701.02.B	22550204	

Detailed specification sheets for each item are available on request.

# Fixed Attenuators

## Product description

HUBER+SUHNER Attenuators are used in a wide variety of RF and microwave applications and excellently meet the requirements of:

- Design and Engineering
- Test and Measurement
- Build-in items for systems

Fixed attenuators are mainly used to reduce the power level of RF signals by a certain amount. The output signal is reduced with respect to the input.



## Features and benefits

- Broadband operationability
- Wide choice of attenuation values
- Low and medium power types
- All connectors meet the relevant IEC / MIL / CECC standards
- High repeatability
- Custom designs available on request

## Standard attenuators, low power, 50 Ω and 75 Ω

Connector series	Frequency range DC to (GHz)	nom. attenuation (dB)	VSWR max.	Power rating (W)	SUHNER type	Article number
SMA (m/f)	3.0	1	1.10	2	6601.19.AC	22645086
SMA (m/f)	3.0	2	1.10	2	6602.19.AC	22645087
SMA (m/f)	3.0	3	1.10	2	6603.19.AC	22645088
SMA (m/f)	3.0	4	1.10	2	6604.19.AC	22645089
SMA (m/f)	3.0	5	1.10	2	6605.19.AC	22645090
SMA (m/f)	3.0	6	1.10	2	6606.19.AC	22645091
SMA (m/f)	3.0	7	1.10	2	6607.19.AC	22645092
SMA (m/f)	3.0	8	1.10	2	6608.19.AC	22645093
SMA (m/f)	3.0	9	1.10	2	6609.19.AC	22645094
SMA (m/f)	3.0	10	1.10	2	6610.19.AC	22645095
SMA (m/f)	3.0	20	1.10	2	6620.19.AC	22645096
SMA (m/f)	3.0	30	1.10	2	6630.19.AC	22645097
SMA (m/f)	12.4	1	1.26	2	6601.19.AB	22643968
SMA (m/f)	12.4	2	1.26	2	6602.19.AB	22643970
SMA (m/f)	12.4	3	1.26	2	6603.19.AB	22643201
SMA (m/f)	12.4	4	1.26	2	6604.19.AB	22643972
SMA (m/f)	12.4	5	1.26	2	6605.19.AB	22643974
SMA (m/f)	12.4	6	1.26	2	6606.19.AB	22643203
SMA (m/f)	12.4	7	1.26	2	6607.19.AB	22643976



Detailed specification sheets for each item are available on request.

## Standard attenuators, low power, 50 Ω and 75 Ω




cont.

Connector series	Frequency range DC to (GHz)	nom. attenuation (dB)	VSWR max.	Power rating (W)	SUHNER type	Article number	
SMA (m/f)	12.4	8	1.26	2	6608.19.AB	22643978	
SMA (m/f)	12.4	9	1.26	2	6609.19.AB	22643980	
SMA (m/f)	12.4	10	1.26	2	6610.19.AB	22643205	
SMA (m/f)	12.4	20	1.26	2	6620.19.AB	22643207	
SMA (m/f)	12.4	30	1.26	2	6630.19.AB	22643209	
BNC (m/f)	4.0	1	1.20	2	6801.01.A	22641542	
BNC (m/f)	4.0	2	1.20	2	6802.01.A	22641543	
BNC (m/f)	4.0	3	1.20	2	6803.01.A	22550177	
BNC (m/f)	4.0	4	1.20	2	6804.01.A	22641544	
BNC (m/f)	4.0	6	1.20	2	6806.01.A	22550178	
BNC (m/f)	4.0	7	1.20	2	6807.01.A	22641546	
BNC (m/f)	4.0	10	1.20	1	6810.01.A	22550179	
BNC (m/f)	4.0	20	1.20	1	6820.01.A	22550180	
BNC (m/f)	4.0	30	1.20	1	6830.01.A	22550181	
TNC (m/f)	4.0	5	1.20	2	6805.26.AC	23011475	
TNC (m/f)	4.0	6	1.20	2	6806.26.AC	23004296	
TNC (m/f)	4.0	9	1.20	2	6809.26.AC	23011476	
TNC (m/f)	12.4	3	1.40	2	6803.26.A	22543746	
TNC (m/f)	12.4	6	1.40	2	6806.26.A	22550194	
TNC (m/f)	12.4	10	1.40	1	6810.26.A	22550195	
TNC (m/f)	12.4	20	1.40	1	6820.26.A	22550196	
TNC (m/f)	12.4	30	1.40	1	6830.26.A	22550197	
N (m/f)	4.0	1	1.10	2	6801.17.AC	23000123	
N (m/f)	4.0	2	1.10	2	6802.17.AC	23000122	
N (m/f)	4.0	3	1.10	2	6803.17.AC	23000121	
N (m/f)	4.0	4	1.10	2	6804.17.AC	23002153	
N (m/f)	4.0	5	1.10	2	6805.17.AC	23002154	
N (m/f)	4.0	6	1.10	2	6806.17.AC	23000120	
N (m/f)	4.0	7	1.10	2	6807.17.AC	23002155	
N (m/f)	4.0	8	1.10	2	6808.17.AC	23002156	
N (m/f)	4.0	9	1.10	2	6809.17.AC	23002157	
N (m/f)	4.0	10	1.10	2	6810.17.AC	23000119	
N (m/f)	4.0	20	1.10	2	6820.17.AC	23000908	
N (m/f)	4.0	30	1.10	1	6830.17.AC	23003966	
N (m/f)	12.4	1	1.25	2	6801.17.A	22641535	
N (m/f)	12.4	2	1.25	2	6802.17.A	22641536	
N (m/f)	12.4	3	1.25	2	6803.17.A	22550182	
N (m/f)	12.4	4	1.25	2	6804.17.A	22641537	
N (m/f)	12.4	5	1.25	2	6805.17.A	22641538	
N (m/f)	12.4	6	1.25	2	6806.17.A	22550183	
N (m/f)	12.4	7	1.25	2	6807.17.A	22641539	
N (m/f)	12.4	8	1.25	2	6808.17.A	22641540	
N (m/f)	12.4	9	1.25	2	6809.17.A	22641541	
N (m/f)	12.4	10	1.25	1	6810.17.A	22550185	
N (m/f)	12.4	20	1.25	1	6820.17.A	22550186	
N (m/f)	12.4	30	1.25	1	6830.17.A	22550187	

Detailed specification sheets for each item are available on request.




## Standard attenuators, low power, 50 Ω and 75 Ω

cont.

Connector series	Frequency range DC to (GHz)	nom. attenuation (dB)	VSWR max.	Power rating (W)	SUHNER type	Article number	
BNC (m/f)	1.0	3	1.10	1.0	6903.01.A	22550053	
BNC (m/f)	1.0	6	1.10	1.0	6906.01.A	22550067	
BNC (m/f)	1.0	10	1.10	0.5	6910.01.A	22550068	
<b>75 Ω types</b>							
N 75Ω (m/f)	1.0	3	1.15	1.0	6903.18.A	22550218	
N 75Ω (m/f)	1.0	6	1.15	1.0	6906.18.A	22550219	
N 75Ω (m/f)	1.0	10	1.15	0.8	6910.18.A	22550220	
N 75Ω (m/f)	1.0	20	1.15	0.5	6920.18.A	22550221	
N 75Ω (m/f)	0.7	30	1.20	0.5	6930.18.A	22550222	
BNC 75Ω (m/f)	1.0	3	1.15	1.0	6903.02.A	22550074	
BNC 75Ω (m/f)	1.0	6	1.15	1.0	6906.02.A	22550088	
BNC 75Ω (m/f)	1.0	10	1.15	0.5	6910.02.A	22550124	
BNC 75Ω (m/f)	1.0	20	1.20	0.5	6920.02.A	22550138	
BNC 75Ω (m/f)	0.7	30	1.20	0.5	6930.02.A	22550159	

## Standard attenuators, medium power, 50 Ω

10 Watt




Connector series	Frequency range DC to (GHz)	nom. attenuation (dB)	VSWR max.	Power rating (W) <sup>Z</sup>	SUHNER type	Article number	
SMA (m/f)	6	3	1.25	10	5903.19.0001	22659280	
SMA (m/f)	6	6	1.35	10	5906.19.0002	22651220	
SMA (m/f)	3	10	1.25	10	5910.19.0001	22651214	
N (m/f)	6	3	1.25	10	5903.17.0003	22648036	
N (m/f)	6	6	1.35	10	5906.17.0003	22648039	
N (m/f)	3	10	1.25	10	5910.17.0005	22649255	
7/16 (m/f)	6	3	1.25	10	5903.41.0001	22652689	
7/16 (m/f)	6	6	1.35	10	5906.41.0001	22652690	
7/16 (m/f)	3	10	1.25	10	5910.41.0001	22652691	

<sup>Z</sup> = convection cooled

Detailed specification sheets for each item are available on request.

## Standard attenuators, medium power, 50 Ω




25 Watt

Connector series	Frequency range DC to (GHz)	nom. attenuation (dB)	VSWR max.	Power rating (W) <sup>z</sup>	SUHNER type	Article number	
SMA (m/f)	6	3	1.25	25	5903.19.0002	22659518	
SMA (m/f)	6	6	1.35	25	5906.19.0003	22659520	
SMA (m/f)	3	10	1.25	25	5910.19.0002	22659429	
N (m/f)	6	3	1.25	25	5903.17.0004	22648037	
N (m/f)	6	6	1.35	25	5906.17.0004	22648040	
N (m/f)	3	10	1.25	25	5910.17.0006	22651229	
7/16 (m/f)	6	3	1.25	25	5903.41.0002	22651234	
7/16 (m/f)	6	6	1.35	25	5906.41.0002	22651235	
7/16 (m/f)	3	10	1.25	25	5910.41.0002	22651236	

<sup>z</sup> = convection cooled

## Standard attenuators, medium power, 50 Ω

50 Watt

Connector series	Frequency range DC to (GHz)	nom. attenuation (dB)	VSWR max.	Power rating (W) <sup>z</sup>	SUHNER type	Article number	
SMA (m/f)	6	3	1.25	50	5903.19.0003	22659519	
SMA (m/f)	6	6	1.35	50	5906.19.0004	22659521	
SMA (m/f)	3	10	1.25	50	5910.19.0003	22659522	
N (m/f)	6	3	1.25	50	5903.17.0005	22648038	
N (m/f)	6	6	1.35	50	5906.17.0005	22648041	
N (m/f)	3	10	1.25	50	5910.17.0004	22649254	
7/16 (m/f)	6	3	1.25	50	5903.41.0003	22651243	
7/16 (m/f)	6	6	1.35	50	5906.41.0003	22650373	
7/16 (m/f)	3	10	1.25	50	5910.41.0003	22650408	

<sup>z</sup> = convection cooled

Detailed specification sheets for each item are available on request.

## Precision attenuators, low power, 50 Ω

Connector series	Frequency range DC to (GHz)	nom. attenuation (dB)	VSWR max.	Power rating (W)	SUHNER type	Article number		
SMA (m/f)	18	1	1.35	2	6801.19.A	22641550		
SMA (m/f)	18	2	1.35	2	6802.19.A	22641555		
SMA (m/f)	18	3	1.35	2	6803.19.A	22550028		
SMA (m/f)	18	4	1.35	1	6804.19.A	22641554		
SMA (m/f)	18	5	1.35	1	6805.19.A	22641553		
SMA (m/f)	18	6	1.35	1	6806.19.A	22550030		
SMA (m/f)	18	7	1.35	1	6807.19.A	22641552		
SMA (m/f)	18	8	1.35	1	6808.19.A	22641551		
SMA (m/f)	18	9	1.35	1	6809.19.A	22641566		
SMA (m/f)	18	10	1.35	1	6810.19.A	22550031		
SMA (m/f)	18	20	1.35	1	6820.19.A	22550042		
SMA (m/f)	18	30	1.35	1	6830.19.A	22550052		
SMA (m/f)	18	1	1.35	2	6601.19.AA	22643967		
SMA (m/f)	18	2	1.35	2	6602.19.AA	22643969		
SMA (m/f)	18	3	1.35	2	6603.19.AA	22643200		
SMA (m/f)	18	4	1.35	2	6604.19.AA	22643971		
SMA (m/f)	18	5	1.35	2	6605.19.AA	22643973		
SMA (m/f)	18	6	1.35	2	6606.19.AA	22643202		
SMA (m/f)	18	7	1.35	2	6607.19.AA	22643975		
SMA (m/f)	18	8	1.35	2	6608.19.AA	23003623		
SMA (m/f)	18	9	1.35	2	6609.19.AA	22643979		
SMA (m/f)	18	10	1.35	2	6610.19.AA	22643204		
SMA (m/f)	18	20	1.35	2	6620.19.AA	22643206		
SMA (m/f)	18	30	1.35	2	6630.19.AA	22643208		
N (m/f)	18	3	1.25	2	6803.17.B	22550188		
N (m/f)	18	6	1.25	2	6806.17.B	22550189		
N (m/f)	18	10	1.25	1	6810.17.B	22550190		
N (m/f)	18	20	1.25	1	6820.17.B	22550191		
N (m/f)	18	30	1.25	1	6830.17.B	22550192		
PC7	18	3	1.20	2	6803.28.A	22550198		
PC7	18	6	1.20	2	6806.28.A	22550199		
PC7	18	10	1.20	1	6810.28.A	22550023		
PC7	18	20	1.20	1	6820.28.A	22550025		
PC7	18	30	1.20	1	6830.28.A	22550027		

Detailed specification sheets for each item are available on request.

# Special Products

## Product description

In this category HUBER+SUHNER offers additional coaxial components such as DC Blocks, Resistive Power Dividers and Impedance Matching Pads.




Products from this range are ideally suited for test and measurement purposes or specific RF applications such as splitting of signals, separation of DC from RF or matching of different nominal impedances.



## Features and benefits

- All connectors meet the relevant IEC / MIL / CECC standards
- High repeatability
- Proved to be an ideal completion of the measurement accessories




## DC Blocks, 50 Ω

Connector series	Frequency range DC to (GHz)	VSWR max.	Insertion loss (max.)	Voltage rating (V dc)	SUHNER type	Article number	
SMA (m/f)	0.1 to 18	1.35	0.5	50	1100.19.A	22645271	
BNC (m/f)	0.01 to 5	1.30	0.5	250	1100.01.A	22550233	
N (m/f)	0.01 to 5	1.30	0.5	250	1100.17.A	22550232	



Detailed specification sheets for each item are available on request.



## Impedance matching pads, 50 Ω to 75 Ω

Connector series	Frequency range DC to (GHz)	VSWR max. 50 Ω	VSWR max. 75 Ω	Power rating (W)	SUHNER type	Article number	
BNC (50m/75f)	1	1.10	1.15	1	6001.01.A	22543737	
BNC (50f/75m)	1	1.10	1.15	1	6001.01.B	22550085	
N (50m/75f)	1	1.10	1.15	1	6001.17.A	22642807	
N (50f/75m)	1	1.10	1.15	1	6001.17.B	22642806	
N (50m)/BNC (75f)	1	1.10	1.15	1	6001.00.0001	22649583	
N (50f)/BNC (75m)	1	1.10	1.15	1	6001.00.0002	22651259	







## Resistive power dividers, 50 Ω and 75 Ω

Connector series	Frequency range DC to (GHz)	VSWR max.	Ampl. tracking max. (dB)	Phase tracking max.(deg)	Power rating (W)	SUHNER type	Article number	
SMA (3f)	12.4	1.20	0.5	6	0.5	4901.19.A	22641657	
BNC (3f)	2.0	1.15	0.3	3	1	4901.01.A	22550077	
BNC (1m/2f)	2.0	1.15	0.3	3	1	4901.01.B	22550078	

Detailed specification sheets for each item are available on request.

## Resistive power dividers, 50 Ω and 75 Ω

cont.

Connector series	Frequency range DC to (GHz)	VSWR max.	Ampl. tracking max. (dB)	Phase tracking max.(deg)	Power rating (W)	SUHNER type	Article number	
TNC (3f)	2	1.15	0.3	3	1	4901.26.A	22640656	
TNC (1m/2f)	2	1.15	0.3	3	1	4901.26.B	22550165	
N (3f)	2	1.15	0.3	3	1	4901.17.A	22550252	
N (1m/2f)	2	1.15	0.3	3	1	4901.17.B	22643830	
<b>75 Ω types</b>								
BNC 75 Ω (3f)	1	1.15	0.2	1.5	1	4901.02.A	22550079	
BNC 75 Ω (1m/2f)	1	1.15	0.2	1.5	1	4901.02.B	22550080	

Detailed specification sheets for each item are available on request.

## Other Related Products

### SUCOFLEX 100

**The high performance microwave cable assembly**

SUCOFLEX 100 series flexible microwave cable assemblies offer superior electrical and mechanical performance for static and dynamic applications.

This series is a high-end product designed to provide optimal performance up to 50 GHz, where stringent electrical requirements - in particular stability and low loss - are important. Their mechanical and climate resistance properties surpass those of standard flexible cables. This cable type is ideally suited to **test and measurement** applications (as test leads).



### SUCOTEST

**The standardised test lead up to 13.0 GHz**

SUCOTEST test leads offer the characteristics that are so crucial in the field of test and measurement applications: high stability in terms of phase, attenuation and reflections; high flexibility for ease of handling; including protection against abrasion:

SUCOTEST test leads offer a cost-efficient connection solution without compromising electrical performance up to 13.0 GHz.



## Precision adaptors

In order to cover the wide variety of interconnection tasks in the field of test + measurement applications, HUBER+SUHNER offers a comprehensive range of precision adaptors allowing an optimal transition between the different interface series. Their small sizes, their low VSWR and their wide frequency range up to 50 GHz make them ideal components in the field of test and measurement.



## Push-on adaptors (QUICK MATE)

In test laboratories where the final testing of devices requires frequent mating, the QUICK-MATE adaptors will be found to be the ideal choice. The adaptors without coupling nuts allow fast and reliable connection of the device under test with the measuring instrument and reduce the wear and tear on the interface of the measurement cable. The adaptors are electroplated with the proprietary HUBER+SUHNER SUCOPRO plating which allows more than 1'000 matings with constant high electrical performance. Thanks to SUCOPLATE, the QUICK-MATE adaptors offer improved electrical conductivity.



## Phase-matched adaptors

For phase and signal delay measurements, we offer a selection of phase-matched adaptors which all have the identical electrical length and thereby enable precise calibration in phase-critical measurements.



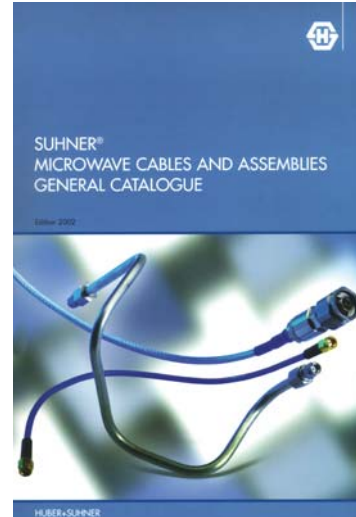
## Related Product Catalogues

Further information will be found in the following complementary general catalogues:

### **SUHNER®** **MICROWAVE CABLES AND ASSEMBLIES**

General catalogue  
Order no. 23012500

The HUBER+SUHNER Microwave Cables and Assemblies catalogue presents the entire range of microwave cables - including matching connectors - combined in a single catalogue. It covers everything from the form-stable SEMI RIGID to the highly flexible SUCOFLEX cables, including the matching cable connectors for application frequencies up to 50 GHz.



### **SUHNER®** **TEST + MEASUREMENT COMPONENTS**

General catalogue  
Order no. 23012791

High performance and stability distinguish our broad range (test cables, test leads, adaptors, attenuators, terminations, MCX and MMCX test kits) of test and measurement products.

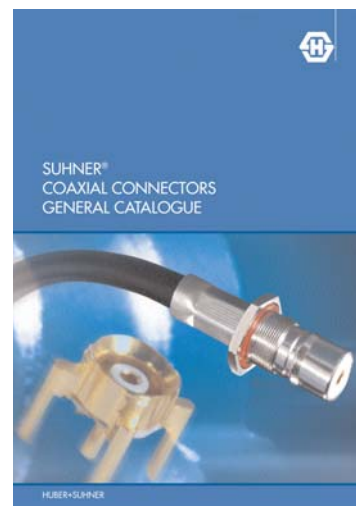
These characteristics have been achieved through selective development efforts and a rigorous, TQM guided, manufacturing and testing process.



### **SUHNER®** **COAXIAL CONNECTORS**

General catalogue  
Order no. 644802

Presents more than 20 RF and microwave connector series. Connectors in various patterns and for a wide range of cables for applications from DC up to over 40 GHz. A complete program of between series adaptors as well as assembly tools and accessories are part of this easy to handle catalogue.



# A BROAD RANGE OF OUTSTANDING PRODUCTS



SUHNER® LISCA cable assemblies are specially developed for applications where low intermodulation products combined with low VSWR and low attenuation are required. The excellent performance is achieved by utilizing corrugated cables with low intermodulation designed connectors and a controlled assembly process with HUBER+SUHNER solder technology.



SUHNER® QN - the cost effective solution for advanced RF interconnections.

QN - the QuickLock N-Connector: Snap-on in one step.

- Cycle time improvement for making RF connections (10 times faster to mount)
- No torque required
- Higher packing density
- Free-rotating connection when mated
- Eliminates loosening problems associated with threaded connectors



SUHNER® Slim Line Protectors series 3406 provide surge protection for any electronic equipment connected to coaxial lines from DC up to 5.8 GHz including the most important license free bands. The gas capsule protection principle supports simultaneous transmission of RF, data, telemetry and DC. Suitable for coaxial links between indoor and outdoor unit of all kind of wireless communications equipment covering both base stations (modems) and subscriber units.

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

#### WAIVER

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