

PAGE

SERIES SK, PRECISION SUBMINIATURE CONNECTORS

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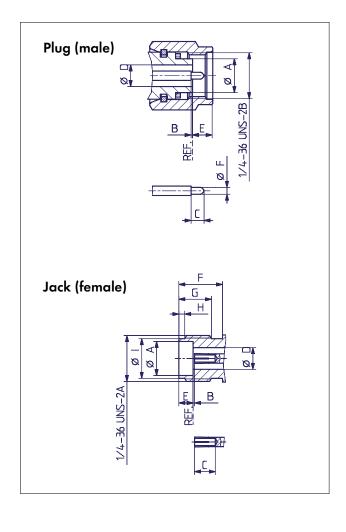
HUBER+SUHNER SK connectors are precision connec-	Descr
tors for microwave applications up to 40 GHz	Interfo

They are intermateable with series SMA and PC 3.5. They have a high mechanical stability and an excellent repeatability. The shortened male pin ensures a non-destructive mating process. The glass beads, when used in conjunction with the SK launchers, enable the connectors to be replaced without disturbing the hermetic seal. For a mechanical decoupling between glass bead and internal microwave circuit, stress relief contacts are available.

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INTERFACE DIMENSIONS

DESCRIPTION



INTERFACE DIMENSIONS (MM / INCHES)

	Plug		Ja	ck
	min.	max.	min.	max.
Α	4.53/.178	4.57/.180	4.60/.181	4.64/.183
В	0.00/.000	0.13/.005	0.00/.000	0.13/.005
С	1.55/.061	1.65/.065	2.80/.110	_
D	2.89/.114	2.95/.116	2.89/.114	2.95/.116
Е	-	3.28/.129	1.88/.074	1.98/.078
F	0.91/.036	0.94/.037	5.90/.232	_
G	-	_	4.40/.173	_
Н	-	-	0.70/.028	0.90/.036
1	_	-	5.30/.208	5.40/.213

IP rating (interface, mated) IP68

TECHNICAL DATA

ELECTRICAL DATA	REQUIREMENTS			
Impedance	50 Ω			
Frequency range	DC 40 GHz			
Dielectric withstanding voltage (at sea level)	750 V rms, 50 Hz			
Working voltage (at sea level) mated / unmated	≤ 250 V rms, 50 Hz			
Insulation resistance	$\geq 5 \cdot 10^3 \mathrm{M}\Omega$			
Contact resistance - centre contact - outer contact	$\leq 3~\text{m}\Omega$ $\leq 2~\text{m}\Omega$			
VSWR (typical values) - cable connectors (cable assembly with 2 connectors) - launchers	≤ 1.37 DC 40 GHz ≤ 1.43 DC 40 GHz			

MECHANICAL DATA	REQUIREMENTS
Coupling nut torque - recommended - proof torque	1.30 Nm / 11.47 in. lbs 1.70 Nm / 15.0 in. lbs
Contact captivation	≥ 22 N / 4.9 lbs
Durability (matings)	≥ 500

ENVIRONMENTAL DATA	TEST CONDITIONS
Temperature range	- 55°C + 125°C / - 67°F + 257°F
Thermal shock	MIL-STD-202, Method 107, Condition B
Vibration	MIL-STD-202, Method 204, Condition D

MATERIAL DATA		
CONNECTOR PART	MATERIAL	PLATING
Bodies, cable connectors	copper-beryllium alloy /stainless steel	gold
Bodies, receptacles	stainless steel / copper alloy	passivated / gold
Centre contacts	copper-beryllium alloy	gold
Support beads	PPO (polyphenylene oxide)	

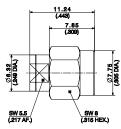
Some connectors may have a specification that differs from the above mentioned data.

The products are designed and guaranteed to pass the above mentioned test procedures. Any additional or different requirement arising from specific applications or environmental conditions which is not covered by these test procedures is subject to request.

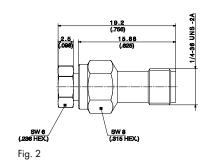
CABLE CONNECTORS

Straight cable plugs (male)

> for semi-rigid cables







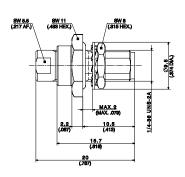


HUBER+SUHNER type	Item no.	Cable group (example)		Packaging	Assembly instruction	Fig.	Notes
11_SK-50-2-56/119_NE	84013230	Y3, Y11	(EZ 86)	single	27445	1	plug
21_SK-50-2-58/199_NE	84019664	Y3, Y11	(EZ 86)	single	0000234990	2	jack

Straight bulkhead cable jacks (female)

> for semi-rigid cables

> with panel seal





HUBER+SUHNER type	Item no.	Cable group (example)		Packaging	Assembly instruction/ Mounting hole	
24_SK-50-2-55/1NE	84016419	Y10	(EZ 118-TP)	single	0000229976 / ML 35	

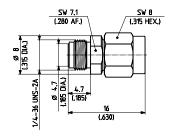
Cable groups see page 28

Assembly tools see page 385

Mounting holes see page 412

LAUNCHERS

"Sparkplug" Launchers



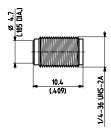


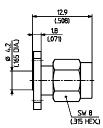


Fig. 1

Fig. 2

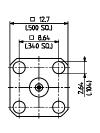
HUBER+SUHNER type	Item no.	Packaging	Assembly instruction	Mounting hole	Fig.	Notes
12_SK-50-0-51/199_NE	22645974	single	9181	ML 75	1	plug
22_SK-50-0-51/199_NE	22645975	single	9181	ML 75	2	jack

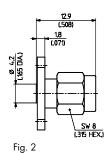
Panel launchers (male)



HUBER+SUHNER type

13_SK-50-0-51/199_NE





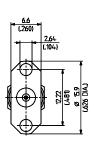




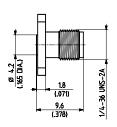
Fig. 1

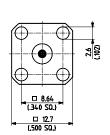
Packaging	Assembly instruction	Mounting hole	Flange type	Fig.	Notes
single	0182	MI 77	cauare	1	

2-hole

2

13_SK-50-0-52/199_NE 22645976 single Panel launchers (female)

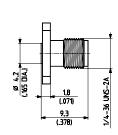




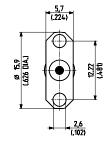
Item no.

22645978

single



9182



ML 78



Fig. 1

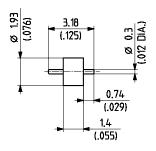
Fig. 2

HUBER+SUHNER type	Item no.	Packaging	Assembly instruction	Mounting hole	Flange type	Fig.	Notes
23_SK-50-0-51/199_NE	22645979	single	9182	ML 77	square	1	
23_SK-50-0-52/199_NE	22645977	single	9182	ML 78	2-hole	2	

Cable groups see page 28 Assembly tools see page 385 Mounting holes see page 412

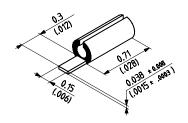
ACCESSORIES

Glass bead for 12 SK, 13 SK, 22 SK, 23 SK launchers (package with 1 piece)



HUBER+SUHNER® TYPE 73_Z-0-0-203/11-_NE ltem no. 22645983

Microstrip stress relief contacts (package with 100 pieces)



HUBER+SUHNER[®] TYPE 73_Z-0-0-204/1-_NH ltem no. 22645980