

SERIES: SWI6D-E | DESCRIPTION: AC-DC POWER SUPPLY

FEATURES

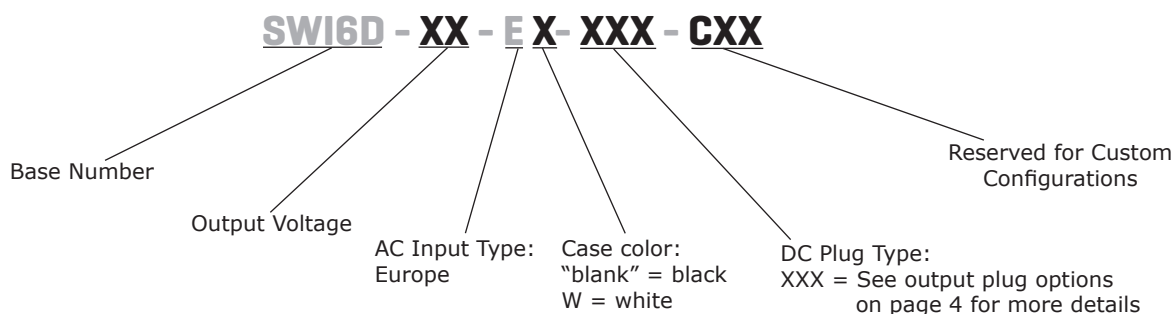
- up to 6 W continuous power
- DoE Level VI efficiency
- no load power consumption < 0.1 W
- universal input voltage range
- over current and short circuit protections
- CE safety approval
- certified to IEC 62368-1
- custom designs available



MODEL	input voltage range (Vac)	input frequency range (Hz)	output voltage nom (Vdc)	output current max (A)	output power max (W)	ripple and noise ¹ max (mVp-p)	efficiency level ² typ (%)
SWI6D-5-E	90 ~ 264	47 ~ 63	5.0	1.0	5.0	100	73.62
SWI6D-5B-E	90 ~ 264	47 ~ 63	5.0	1.2	6.0	120	75.18
SWI6D-5.9-E	90 ~ 264	47 ~ 63	5.9	1.0	5.9	120	75.05
SWI6D-7.5-E	90 ~ 264	47 ~ 63	7.5	0.8	6.0	120	78.88
SWI6D-9-E	90 ~ 264	47 ~ 63	9.0	0.66	5.94	150	78.97
SWI6D-12-E	90 ~ 264	47 ~ 63	12.0	0.5	6.0	200	78.88

Notes: 1. At full load, nominal AC input voltage, 25°C, 20 MHz bandwidth oscilloscope, output terminated with 0.1 µF ceramic and 10 µF aluminum electrolytic capacitors.
2. Average efficiency is measured at 115V/60Hz and 230V/60Hz, 25%, 50%, 75%, and 100% load.

PART NUMBER KEY



INPUT

parameter	conditions/description	min	typ	max	units
voltage		90	100~240	264	Vac
frequency		47	50~60	63	Hz
current	at nominal input voltage			0.18	A
leakage current				0.25	mA
no load power consumption				0.1	W

OUTPUT

parameter	conditions/description	min	typ	max	units
line regulation			±5		%
load regulation			±5		%
start-up time	at nominal input voltage & full load			4	s
rise time				50	ms
hold-up time	at nominal input voltage & full load	8			ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over current protection	auto recovery				
short circuit protection	auto recovery				

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output for 1 minute, 5 mA max		3,000		Vac
safety approvals	certified to 62368-1: IEC				
EMI/EMC	EN 55032 Class B, CE				
ESD	IEC 61000-4-2: air: ± 8 kV, contact: ± 4 kV, perf. Criteria B				
radiated immunity	IEC 61000-4-3: frequency: 80 ~ 1000 MHz, field strength: 3 V/m, 80% AM (1kHz), perf. Criteria B				
EFT/burst	IEC 61000-4-4: 1.0 kV on input AC power ports, perf. Criteria B				
surge	IEC 61000-4-5: line to line: ± 1kV (peak), line to earth: ±2 kV				
MTBF	as per Telcordia SR-332 (Issue 3), at full load, 25°C	300,000			hours
RoHS	yes				

ENVIRONMENTAL

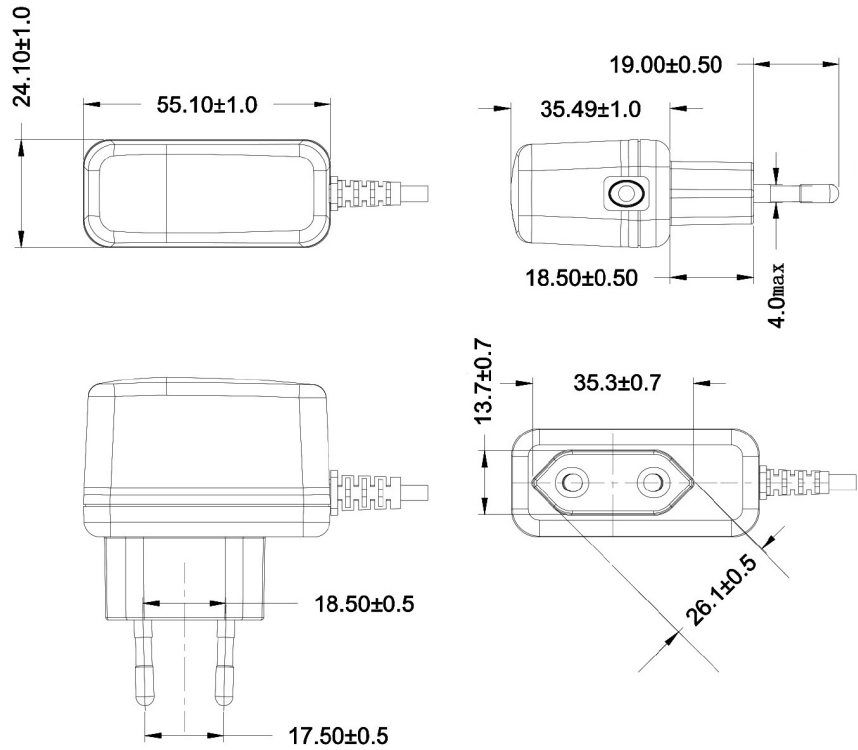
parameter	conditions/description	min	typ	max	units
operating temperature		0		50	°C
storage temperature		-25		80	°C
operating humidity	non-condensing	10		90	%
storage humidity	non-condensing	10		90	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	55.1 x 24.1 x 35.49				mm
inlet plug	Europe				
weight			63		g

MECHANICAL DRAWING

units: mm



DC CORD

units: mm

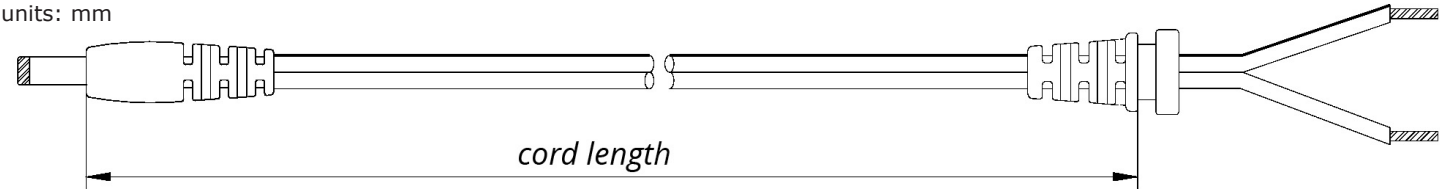


Table 1

MODEL NO.	CABLE	CORD LENGTH
SWI6D-5-E	UL2468, 24 AWG	1,500 mm ±80
SWI6D-5B-E	UL2468, 22 AWG	1,500 mm ±80
SWI6D-5.9-E	UL2468, 24 AWG	1,500 mm ±80
SWI6D-7.5-E	UL2468, 22 AWG	1,500 mm ±80
SWI6D-9-E	UL2468, 24 AWG	1,500 mm ±80
SWI6D-12-E	UL2468, 24 AWG	1,500 mm ±80

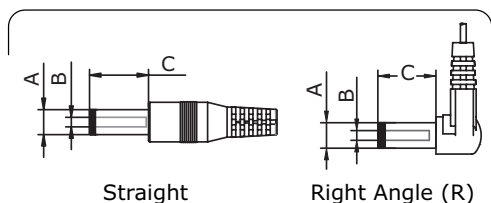
DC PLUG TYPE PART NUMBER KEY

XXX								
Plug Polarity: P = Center Positive  N = Center Negative 			Plug Code: X = Choose a code from the options below			Plug Angle: "blank" = Straight R = Right Angle		
Plug Polarity		Code		Dimensions (mm)			Plug Angle	
Center Pos.	Center Neg.	Option	Type	A	B	C	Straight	Right
N/A	N/A	P1 ¹	Audio	3.5	N/A	14	•	N/A
•	•	5	Standard	5.5	2.1	9.5	•	•
•	•	6	Standard	5.5	2.5	9.5	•	•
•	•	7	Standard	3.5	1.35	9.5	•	•
•	•	8	Standard	3.8	1.35	9.5	•	•
•	•	9	Standard	3.8	1.05	9.5	•	•
•	•	10	Locking ²	5.5	2.1	9.5	•	N/A
•	•	11	Locking ²	5.5	2.5	9.5	•	N/A
•	•	12	EIAJ-1	2.35	0.7	9.5	•	•
•	•	13	EIAJ-2	4.0	1.7	9.5	•	•
•	•	14	EIAJ-3	4.75	1.7	9.5	•	•
N/A	N/A	ST	Stripped & Tinned				N/A	N/A
N/A	N/A	M	USB	Micro USB Type B			•	N/A
N/A	N/A	C	USB	USB Type C			•	N/A

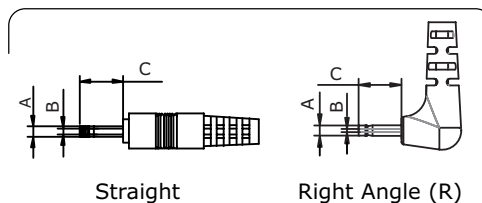
Note:

1. Tip positive
2. Maximum insertion depth is 10mm
3. Contact CUI for additional plug options

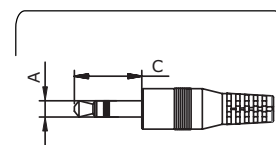
Standard



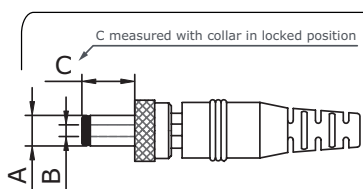
EIAJ



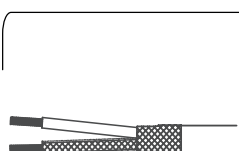
Audio



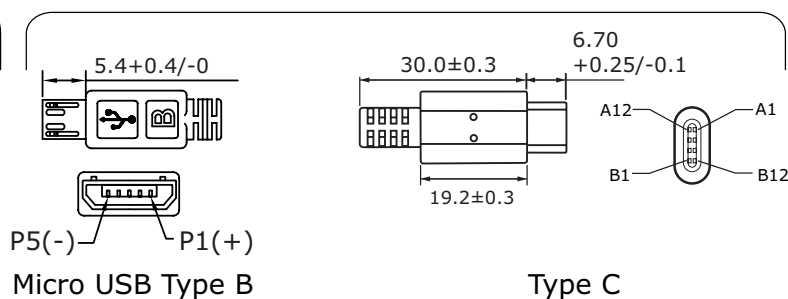
Locking



Stripped & Tinned



USB



REVISION HISTORY

rev.	description	date
1.0	initial release	10/06/2025

The revision history provided is for informational purposes only and is believed to be accurate.



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a bel group

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This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

CUI offers a one (1) year limited warranty. Complete warranty information is listed on our website.

CUI reserves the right to make changes to the product at any time without notice. Information provided by CUI is believed to be accurate and reliable. However, no responsibility is assumed by CUI for its use, nor for any infringements of patents or other rights of third parties which may result from its use.

CUI products are not authorized or warranted for use as critical components in equipment that requires an extremely high level of reliability. A critical component is any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.