CUI INC®

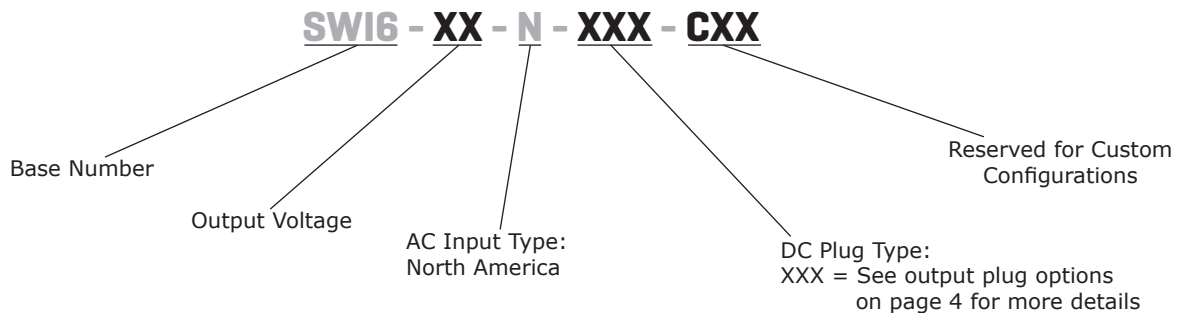**SERIES:** SWI6-N │ **DESCRIPTION:** AC-DC POWER SUPPLY

FEATURES

- up to 6 W continuous power
- DoE Level VI efficiency
- no load power consumption < 0.1 W
- compact size
- universal input voltage range
- over voltage, over current, and short circuit protections
- UL/cUL, PSE safety approvals
- certified to 60950-1 and 62368-1 standards

RoHS   cULus   PSE   LPS FC

MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise[1] max (mVp-p)	efficiency level
SWI6-3.3-N	3.3	1.5	4.95	100	VI
SWI6-5-N	5	1.5	7.5	100	VI
SWI6-5.9-N	5.9	1.2	7.08	100	VI
SWI6-7.5-N	7.5	1.0	7.5	100	VI
SWI6-9-N	9	0.67	6.03	100	VI
SWI6-12-N	12	0.6	7.2	120	VI
SWI6-15-N	15	0.5	7.5	150	VI

Notes: 1. At full load, nominal input, 20 MHz bandwidth oscilloscope, output terminated with 0.1 µF multilayer ceramic and 47 µF low ESR electrolytic capacitors.

PART NUMBER KEY

SWI6 - XX - N - XXX - CXX

Base Number

Output Voltage

AC Input Type:
North America

DC Plug Type:
XXX = See output plug options
on page 4 for more details

Reserved for Custom
Configurations

cui.com

INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current				0.19	A
inrush current	at 240 Vac, full load, 25°C, cold start			60	A
leakage current				0.25	mA
no load power consumption	at 115/230 Vac			0.1	W

OUTPUT

parameter	conditions/description	min	typ	max	units
regulation	3.3 Vdc output model all other models		±10 ±5		% %
hold-up time	at full load	10			ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	output shut down			180	%
over current protection	output shut down, auto recovery 3.3 Vdc output model 5 Vdc output model 5.9 Vdc output model 7.5 Vdc output model 9 Vdc output model 12 Vdc output model 15 Vdc output model			 3.5 3.5 3 2.5 1.5 1.5 1.3	 A A A A A A A
short circuit protection	output shut down, auto recovery				

SAFETY & COMPLIANCE

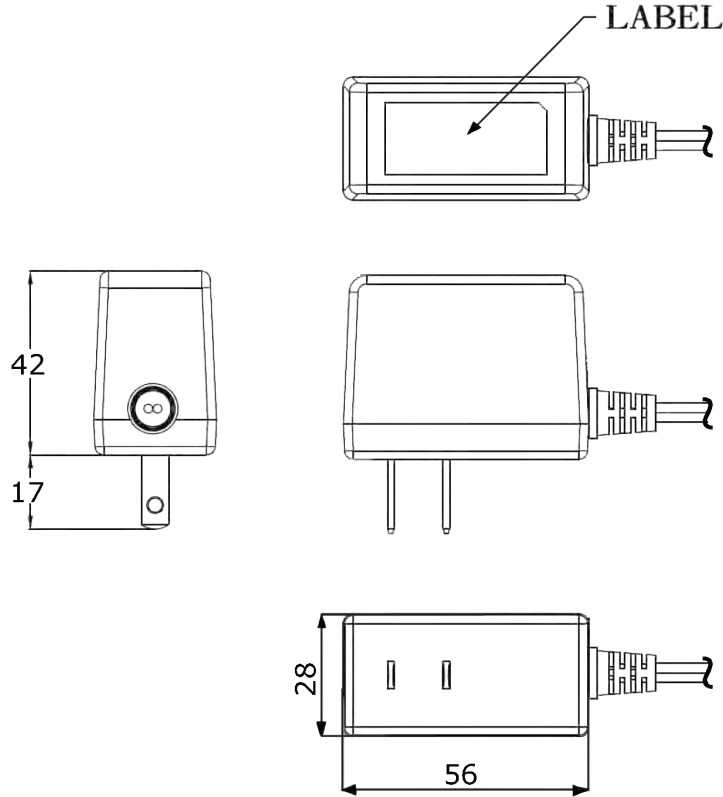| parameter	conditions/description	min	typ	max	units
isolation voltage	input to output at 10 mA for 1 minute		3,000		Vac
isolation resistance	input to output at 500 Vdc	10			MΩ
safety approvals	UL/cUL (60950-1, 62368-1), PSE				
EMI/EMC	FCC Part 15B Class B				
MTBF	as per Telcordia SR-332, 25°C	300,000			hours
RoHS	yes				

ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		60	°C
operating humidity	non-condensing	20		80	%
storage humidity	non-condensing	10		90	%

MECHANICAL

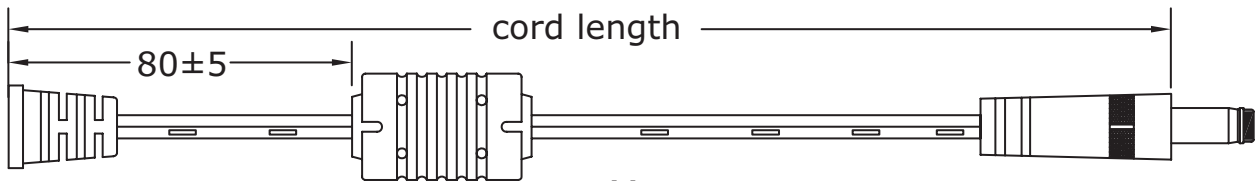| parameter	conditions/description	min	typ	max	units
dimensions	56 x 28 x 42				mm
inlet plug	North America, 2-pin				
weight			78		g

MECHANICAL DRAWING

units: mm
tolerance: ±1.0 mm

LABEL

42

17

28

56

DC CORD

units: mm

cord length

80±5

Table 1

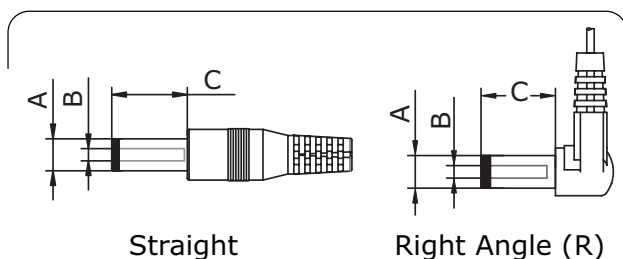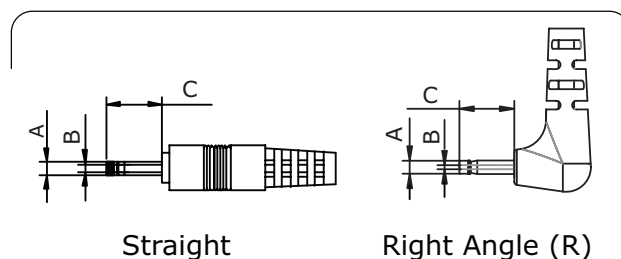| MODEL NO.	CABLE	CORD LENGTH
SWI6-3.3-N	UL2468, 20 AWG	1,500 mm ±30
SWI6-5-N	UL2468, 20 AWG	1,500 mm ±30
SWI6-5.9-N	UL2468, 20 AWG	1,500 mm ±30
SWI6-7.5-N	UL2468, 22 AWG	1,500 mm ±30
SWI6-9-N	UL2468, 22 AWG	1,500 mm ±30
SWI6-12-N	UL2468, 22 AWG	1,500 mm ±30
SWI6-15-N	UL2468, 22 AWG	1,500 mm ±30

DC PLUG TYPE PART NUMBER KEY

X X X

Plug Polarity:
P = Center Positive

$\ominus$ — © — $\oplus$

N = Center Negative

$\oplus$ — © — $\ominus$

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	5.5	2.1	9.5	●	N/A
●	●	11	Locking	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	MUB	USB	Micro USB Type B			●	N/A

Note: 1. Tip positive
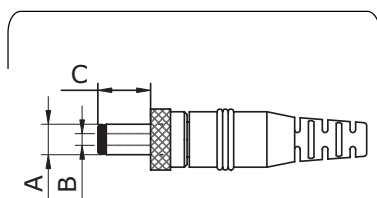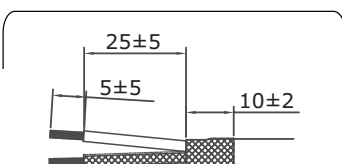   2. Contact CUI for additional plug options

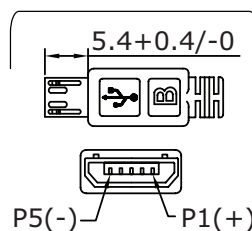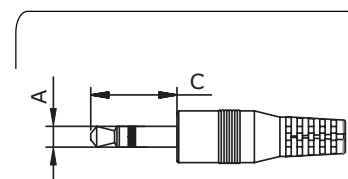## Standard

Straight   Right Angle (R)

EIAJ

Straight   Right Angle (R)

Locking

Stripped & Tinned

25±5
5±5   10±2

USB

5.4+0.4/-0

P5(-)   P1(+)

Audio

REVISION HISTORY

rev.	description	date
1.0	initial release	08/07/2015
1.01	added models	08/12/2015
1.02	updated drawing	11/10/2015
1.03	added micro USB Type B plug option	06/30/2016
1.04	added audio plug option	11/07/2016
1.05	added 62368-1 standard	08/31/2018

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

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