CUI INC
a bel group

SERIES: SWI10-E │ DESCRIPTION: AC-DC POWER SUPPLY

FEATURES

- up to 12 W continuous power
- CoC Tier 2 compliant
- universal input voltage range
- ultra-compact case
- no load power consumption < 0.075 W
- over current, over voltage, and short circuit protections
- Class II construction

RoHS

MODEL	output voltage (Vdc)	output current max (A)	output power max (W)	ripple and noise[1] max (mVp-p)	efficiency level[2]
SWI10-5-E	5	2	10	250	VI
SWI10-12-E	12	1	12	200	VI

Notes: 1. At full load, 25°C, at 115/230 Vac input, 20 MHz bandwidth oscilloscope, output terminated with 0.1 µF and 10 µF capacitors.
2. CoC Tier 2 compliant

PART NUMBER KEY

SWI10 - XX - E - XXX - CXX

Base Number

Output Voltage

AC Input Type:
Europe

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

Reserved for Custom
Configurations

INPUT

parameter	conditions/description	min	typ	max	units
voltage		90		264	Vac
frequency		47		63	Hz
current	at nominal input voltage			0.5	A
leakage current	at nominal input voltage & frequency			0.25	mA
no load power consumption	at 115/230 Vac			0.075	W

OUTPUT

parameter	conditions/description	min	typ	max	units
regulation			±5		%
start-up time	at nominal input voltage			3	s
rise time	at nominal input voltage			100	ms

PROTECTIONS

parameter	conditions/description	min	typ	max	units
over voltage protection	5 Vdc output model 12 Vdc output model			12 25	Vdc Vdc
over current protection	output shut down, auto recovery 5 Vdc output model 12 Vdc output model			4.5 2.5	A A
short circuit protection					

SAFETY & COMPLIANCE

parameter	conditions/description	min	typ	max	units
isolation voltage	input to output at 10 mA for 1 minute		3,000 4,242		Vac Vdc
MTBF	as per Telcordia SR-332 (Issue 2), at 115/230 Vac, full load, 0°C~40°C	50,000			hours
RoHS	2011/65/EU				

ENVIRONMENTAL

parameter	conditions/description	min	typ	max	units
operating temperature		0		40	°C
storage temperature		-20		70	°C
operating humidity	non-condensing	20		85	%
storage humidity	non-condensing	5		95	%

MECHANICAL

parameter	conditions/description	min	typ	max	units
dimensions	69 x 28.8 x 77.7				mm
inlet plug	Europe				
weight			96		g

MECHANICAL DRAWING

units: mm
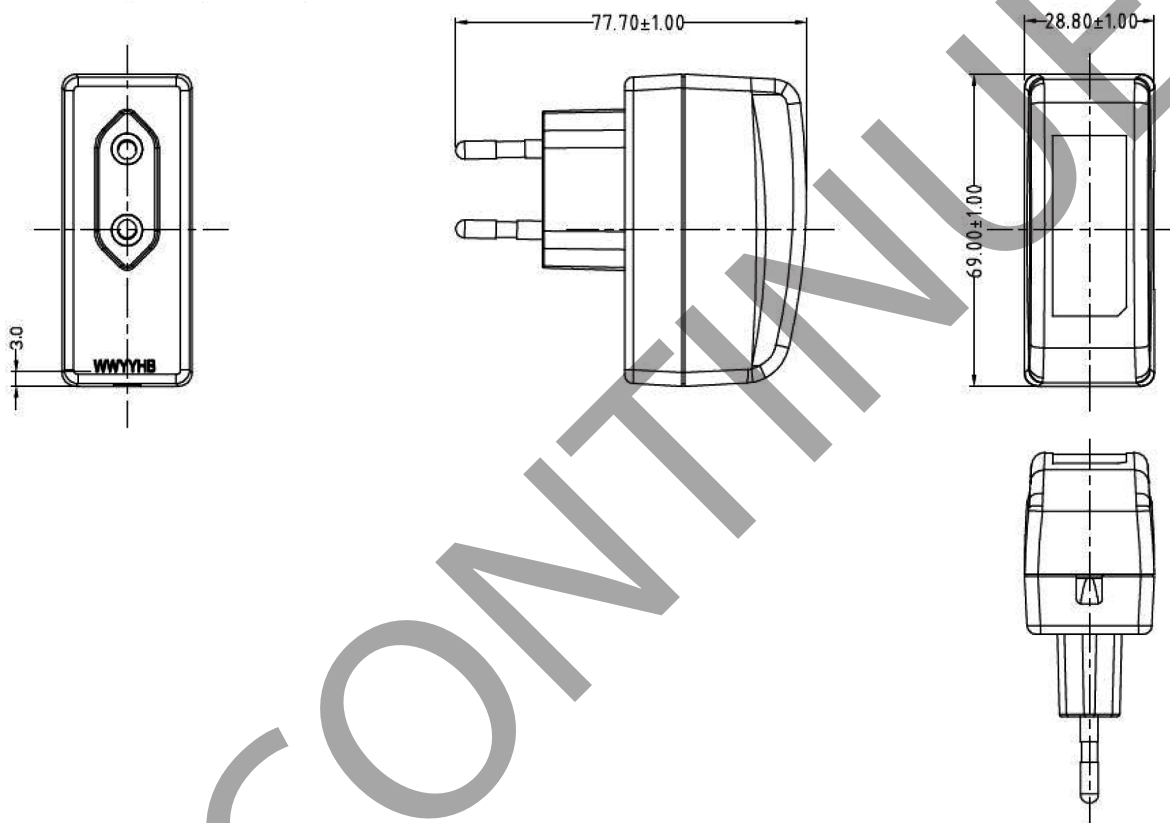
DC CORD

units: mm
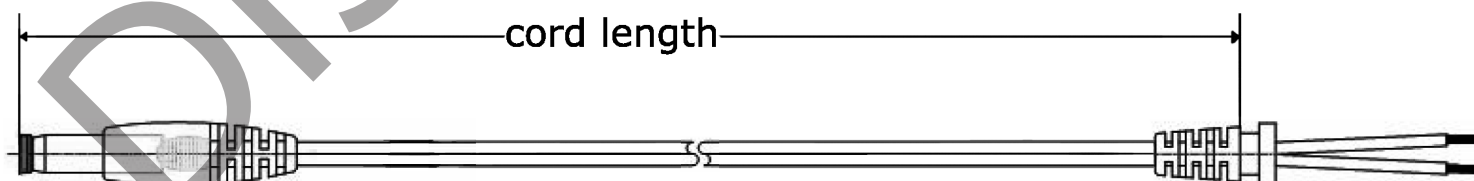
Table 1

MODEL NO.	CABLE	CORD LENGTH
SWI10-5-E	UL2468, 20 AWG	1,500 mm ±50
SWI10-12-E	UL2468, 22 AWG	1,500 mm ±50

DC PLUG TYPE PART NUMBER KEY

X X X

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
•	•	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. Contact CUI for additional plug options

Standard

Straight   Right Angle (R)

EIAJ

Straight   Right Angle (R)
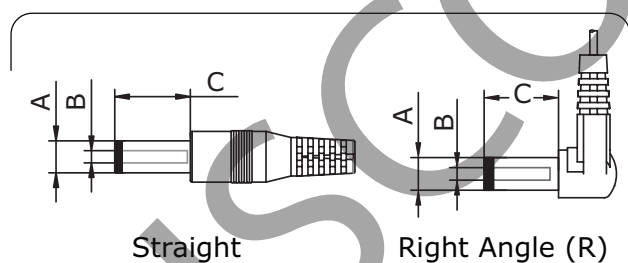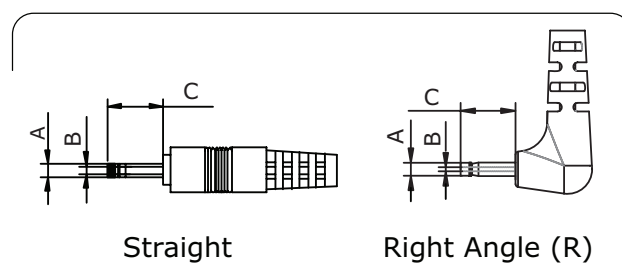
Locking

Stripped & Tinned

5±2
30±5

USB

5.8±0.5

P5(-)   P1(+)
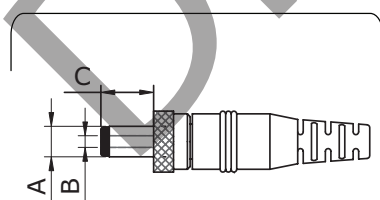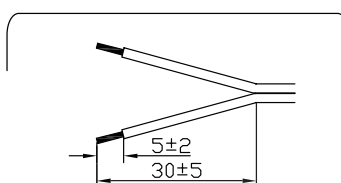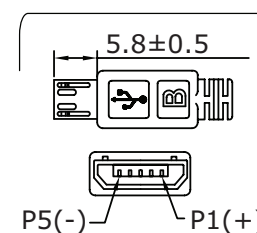
REVISION HISTORY

rev.	description	date
1.0	initial release	12/12/2016
1.01	company logo updated	09/21/2020
1.02	safeties updated	12/09/2020

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

CUI INC
a bel group

Headquarters
20050 SW 112th Ave.   Fax 503.612.2383
Tualatin, OR 97062   **cui**.com
800.275.4899   techsupport@cui.com

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[CUI Inc.](#):

SWI10-12-E-P6 SWI10-5-E-P7 SWI10-12-E-P6R SWI10-12-E-P7R SWI10-5-E-P6 SWI10-12-E-P7 SWI10-12-E-MUB SWI10-5-E-MUB SWI10-5-E-P6R SWI10-5-E-P7R SWI10-5-E-P5R SWI10-12-E-P5R SWI10-5-E-P5 SWI10-12-E-P5