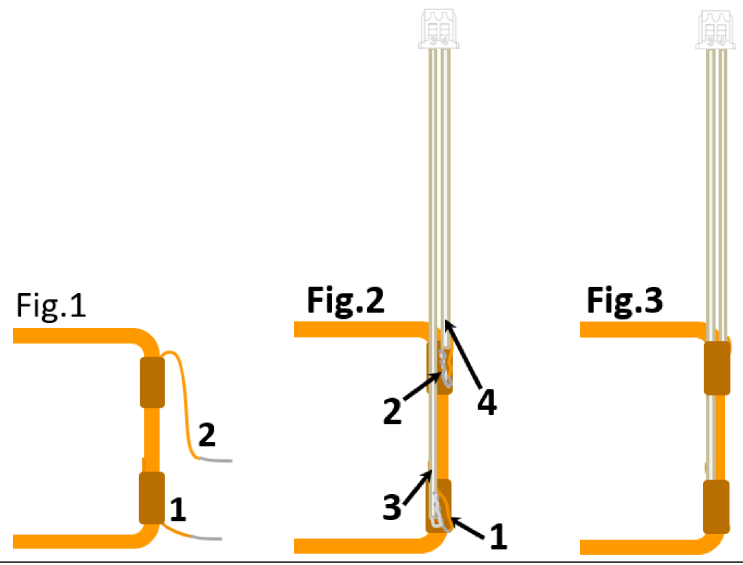


Wire Soldering to Coil Terminal



Coil Specification:

- 1) Coil Inductance 750uH ± 5% @ 125KHz.
- 2) Antenna series Resistance(Rs): 100ohms(Approx).
- 3) Select self-bonding copper wire(AWG), based on the given dimensions.
- 4) Numbers of turns, as needed to achieve the specified inductance within the given dimensions.
- 5) loose wire in between wire to wire OR layer to layer not accepted.
- 6) The coil winding to be machine wound, layer winding and good bonding strength btw wire to wire and layer to layer.
- 7) RoHS3.
- 8) Temperature: -25deg C to +105deg C.
- 9) The coil winding should be taped with KAPTON Tap.

Molex Connector:

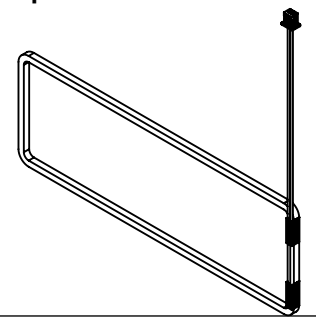
- 1) MPN: 510210200
- 2) Crimp Pin: 500588000

Teflon Wire Specification:

- 1) 28AWG x 7Strands
- 2) Conductor Resistance at 20°c : 45.20 ohm/kft

STEPS TEFLON WIRE SOLDERING TO COIL TERMINAL:

- 1) The coil winding should be taped with the Kapton tape as shown in fig.1.
- 2) Start lead-1&wire-3 to be soldered separately and End lead-2& wire-4 to be soldered separately as shown in fig.2
- 3) The soldered pin has to be taped separately as shown in Fig.3. Do not use heat shrink tube on soldered wire.
- 4) Other end of Soldered wire has to be crimped with crimp pin. **Ensure the wire needs to be crimped to the cable sheath also and not only on conductor.** Insert crimped wire to the Molex connector as shown in "Detail:A" **Ensure the polarity of crimped wire when inserting to the Molex connector.**



A	07-Mar-2024	Revision is changed 2 to A
2	13-Jul-2023	Increased an inner length of Coil, Molex Connector & Crimp pin changed, PVC wire length increased, Wire soldering steps updated, Width of Kapton Tape changed
1	10-Mar-2023	Initial Release
REV.	DATE	Rev. History



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APPROVED BY :		DATE :	TITLE :
Reviewer : Sixtus		DATE : 07-Mar-2024	Coil LF 750uH 102x98x2 3Factor
SCALE : Not in scale	3rd ANGLE PROJ	DRAWN BY : Karthick	DATE : 07-Mar-2024
MATERIAL : xxxx	FINISHING : xxxx	SIZE : A4	PART NO. : 115203R3R
		UNIT : MM (MILLIMETERS)	DRW NO. : TBD
REV.	A	SHEET	1 OF 1