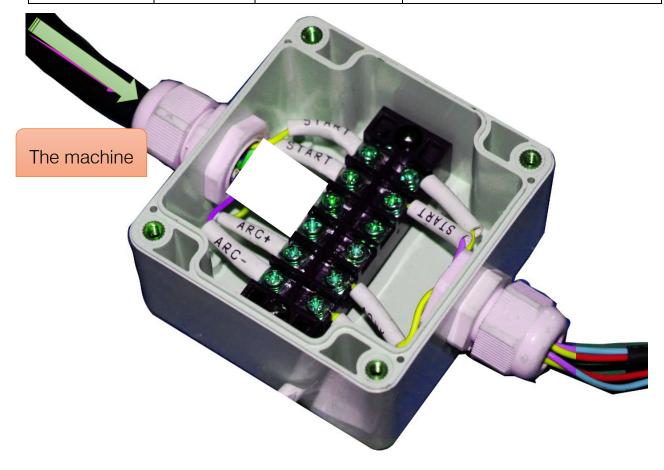


## How to connect Powermax45 XP with Thunder X-PRO

- ◆ The Powermax45 XP connect to Thunder X-PRO, 4 wires need to be connected.
- ◆ The Machine connect terminal:

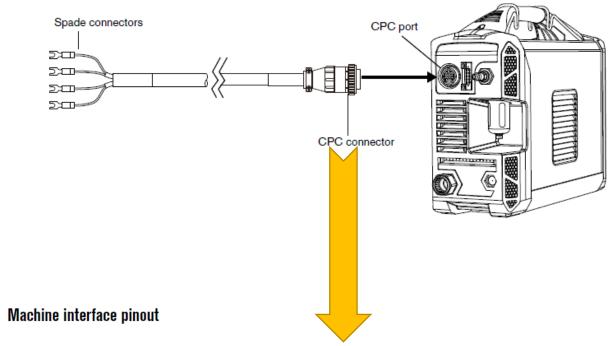
Machine	Aviation plug	Terminal No.	Description	
	2 0000	START	The CNC plasma arc initiation signal	
Thorondon V	2-core	START		
Thunder X-				
PRO connect				
terminal				
torrinia	2-core	ARC+	The CNC arc voltage signal	
		ARC-		



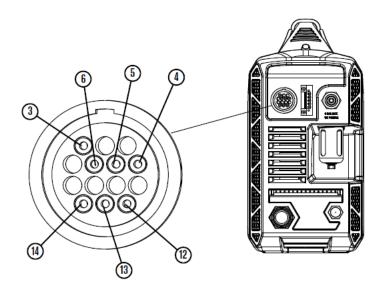


POWERMAX45 XP connect terminal:

Note: The customer needs to connect the power cable according to the actual plasma models.



The following figure shows the connector sockets for each type of signal available through the machine interface cable.



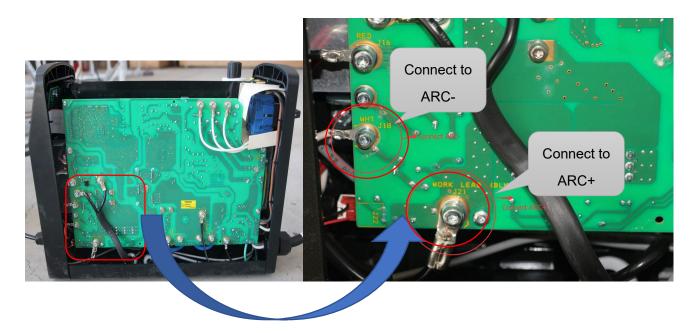
Plasma interface signals:



#### Machine interface cable signals

Refer to the following table for the cable signal details when connecting the power supply to a torch height controller or CNC controller with a machine interface cable.

Signal	Туре	Notes	Connector sockets	External cable wires	Internal cable wires
		Normally open.	3	Green	Black
Start (start plasma)	Input	15 VDC open circuit voltage at START terminals. Requires dry contact closure to activate.	4	Black	Red
Transfer (start machine Outp motion)		Normally open. Dry contact	12	Red	White
	Output	120 VAC / 1 A maximum at the machine interface relay.	14	Black	Green
Voltage divider	Output	Divided arc signal of 20:1, 21.1:1, 30:1, 40:1, 50:1 (provides a maximum of 16 V).	5 (-)	Black (-)	Black (-)
			6 (+)	White (+)	Red (+)
Ground	Ground		13		Green/yellow



Negative electrode(WHT J18) of Plasma power is connected the plasma torch. and check it by multimeter; If 【WHT J18】 is not connected the ground wire, please find the other port.



◆ Cable connecting method:

	Tarminal No.	Corresponding interface of	The interface	
	Terminal No.	POWERMAX45 XP	position	
	START	3 Input Start		
	START	4 Input Start		
Thunder X-PRO			POWERMAX45	
connect terminal			XP Interface	
	ARC+	Positive electrode ( work J21)		
	ARC-	Negative electrode( WHT J18 )		

◆ Connect the machine to the plasma signal with terminal blocks:

