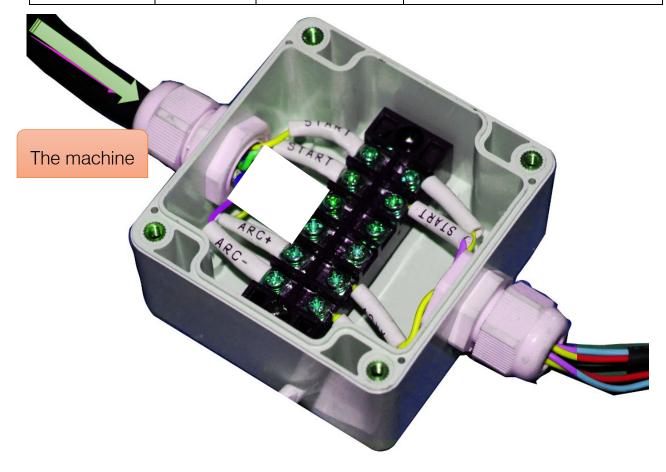


#### How to connect Powermax45 XP with Tube-S&Tube-mini

- ◆ The Powermax45 XP connect to Tube-S&Tube-mini, 4 wires need to be connected.
- ◆ The Machine connect terminal:

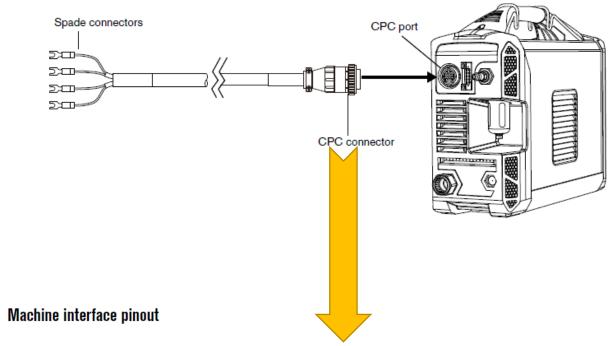
Machine	Aviation plug	Terminal No.	Description	
	2 0000	START	The CNC plasma arc initiation signal	
T. 00T.	2-core	START		
Tube-S&Tube-				
mini connect				
terminal				
torriiriai	2-core	ARC+	The CNC are voltage signal	
		ARC-	The CNC arc voltage signal	



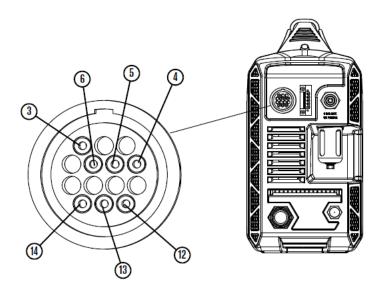


POWERMAX45 XP connect terminal:

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.



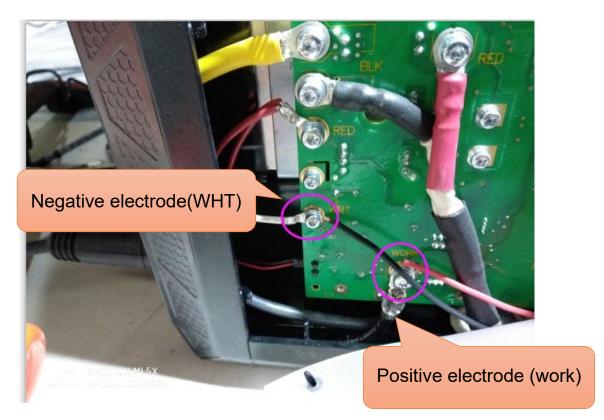
Plasma interface signals:



#### 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
Start (start plasma) Inpu		Normally open.	3	Green	Black
	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 closure when the arc transfers.  120 VAC / 1 A maximum at the machine interface relay.	12	Red	White
	Output		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) of Plasma power is connected the plasma torch. and check it by

multimeter; If 【WHT】 is not connected the ground wire, please find the other port.



◆ Cable connecting method:

	Terminal No.	Corresponding interface of POWERMAX45 XP	The interface position
	START	3 Input Start	
Tube-S&Tube- mini connect terminal	START	4 Input Start	
			POWERMAX45 XP
			Interface
	ARC+	Positive electrode ( work )	
	ARC-	Negative electrode( WHT )	

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

