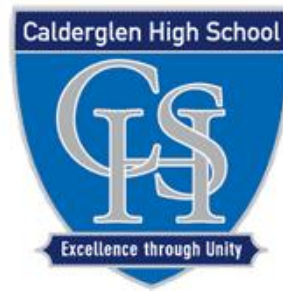


Practical Electronics

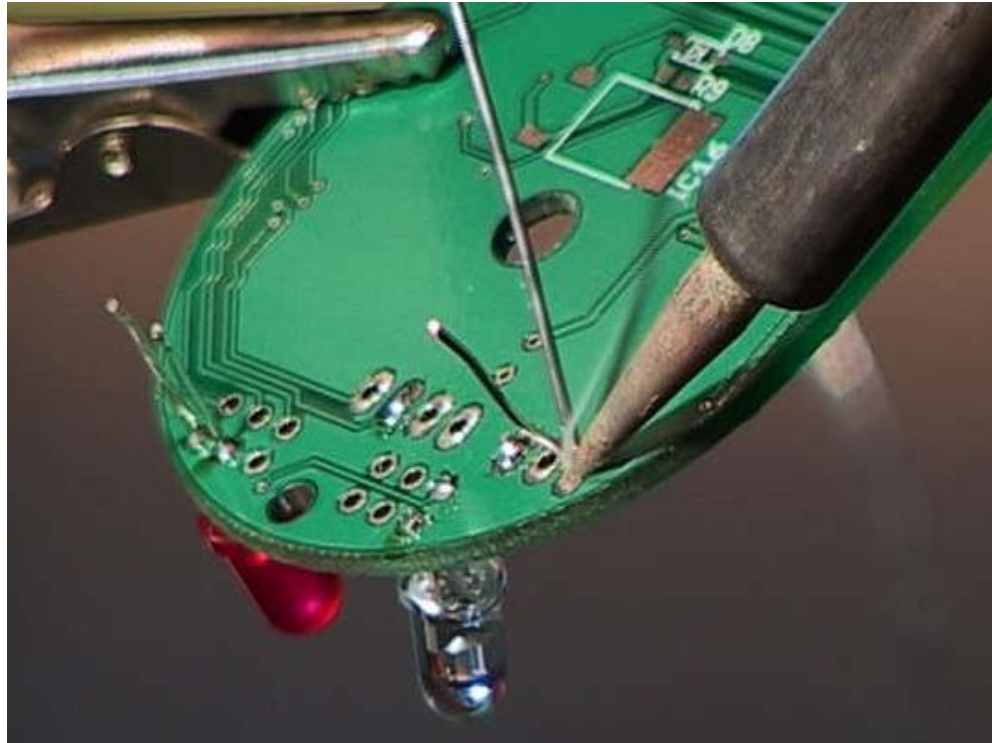
Question Time



S3 Masterclass Theory

(Use during the last 5-10 minutes of every lesson)

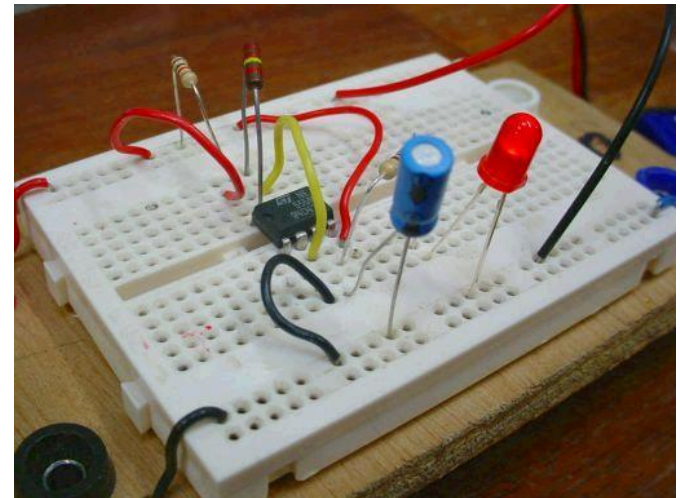
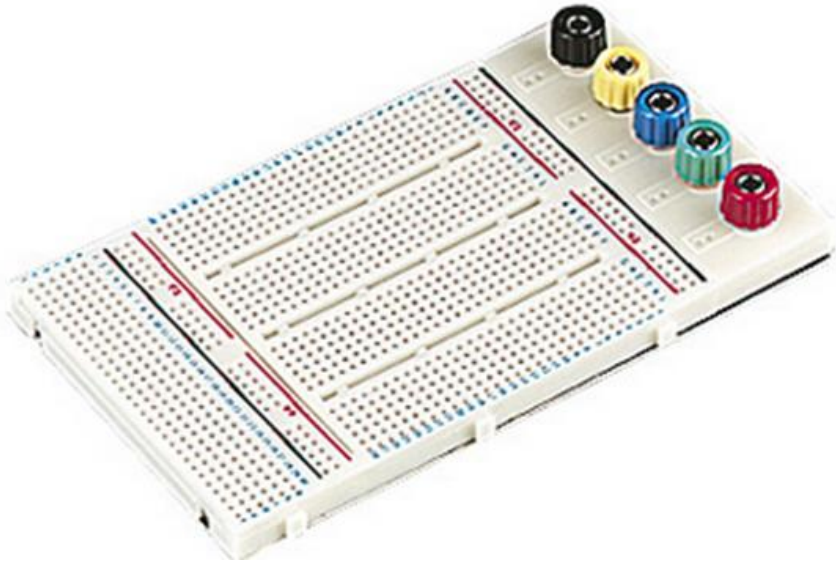
Explain a safety rule when soldering.



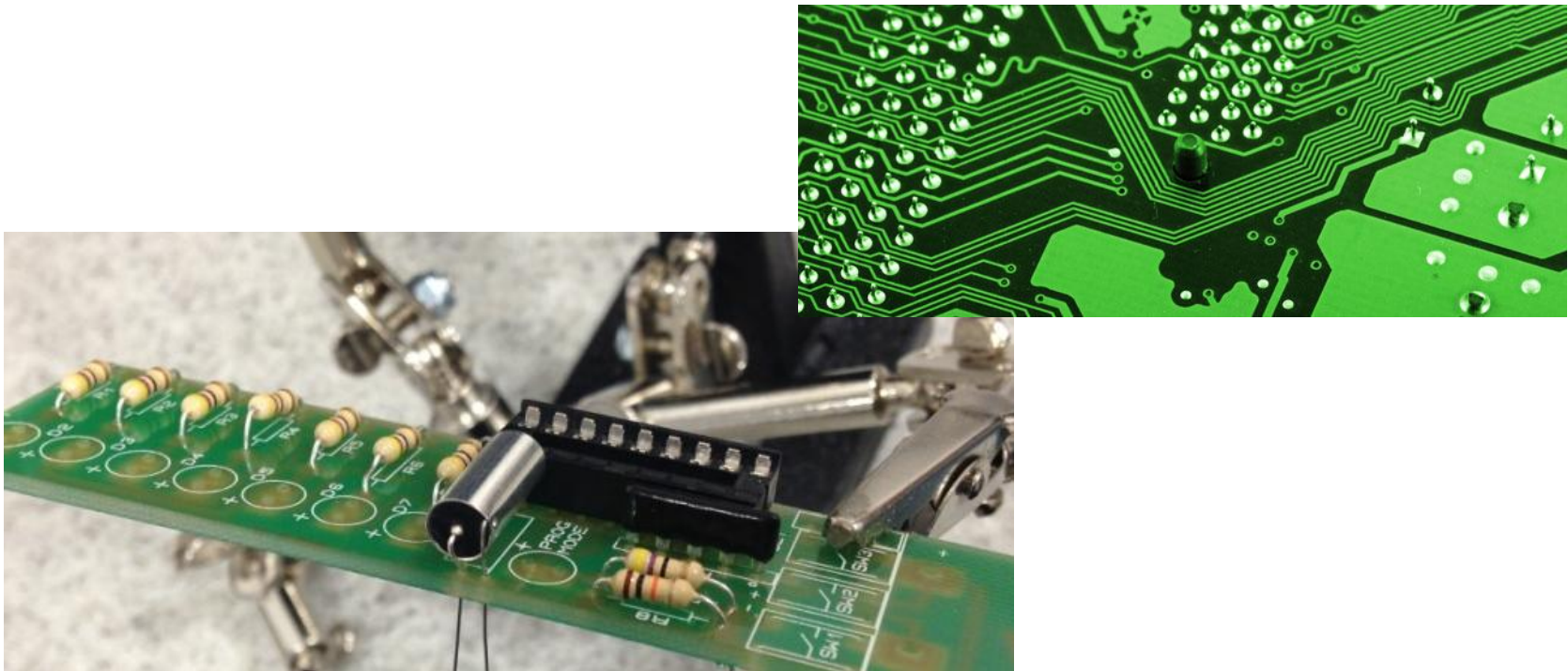
What do you do if you accidentally burn yourself?



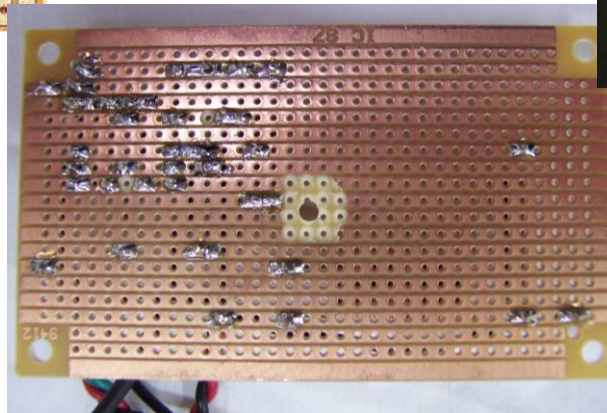
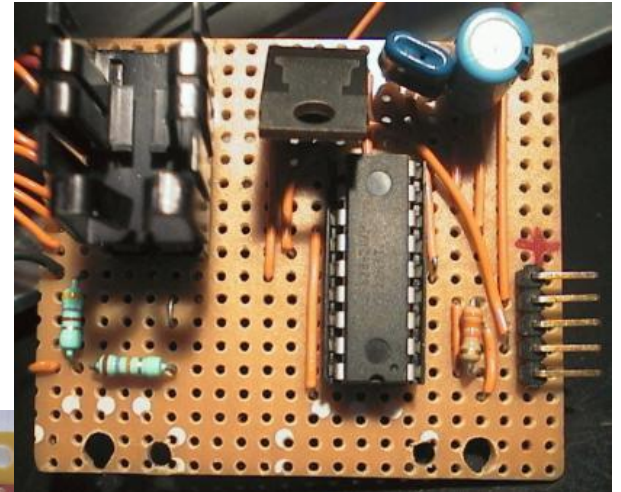
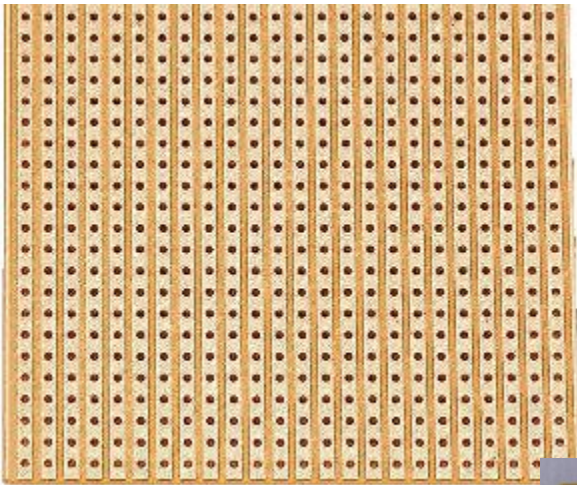
What is the name of this type of board and what is it used for?



What is the name of this type of board and what is it used for?



What is the name of this type of board and what is it used for?



Name this piece of equipment.



Name this piece of equipment.



Name this piece of equipment.



Name this piece of equipment.



Name this piece of equipment.



Name this piece of equipment.



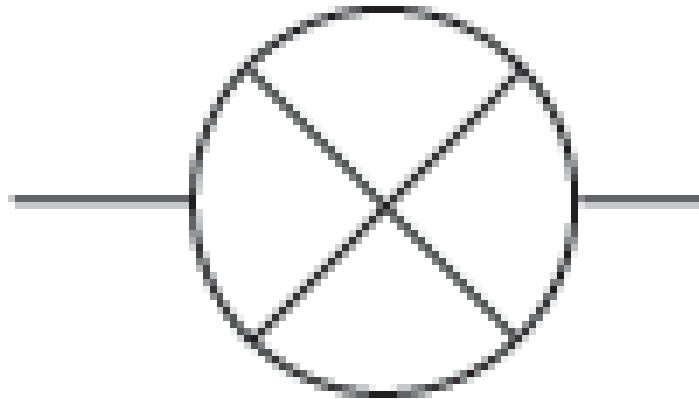
Name this piece of equipment.



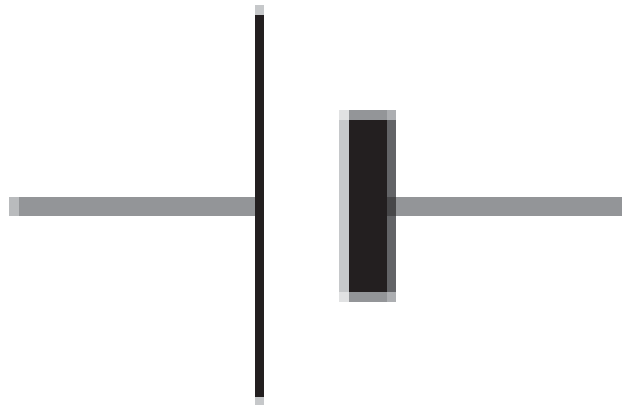
Name this piece of equipment.



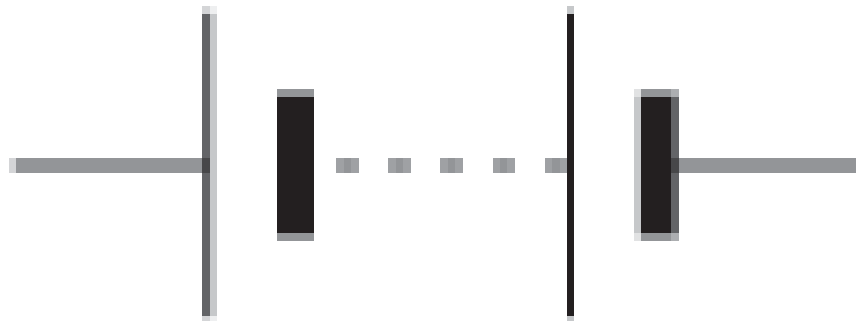
Name this circuit symbol.



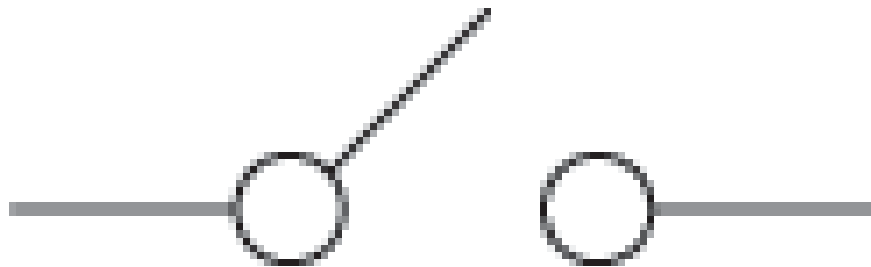
Name this circuit symbol.



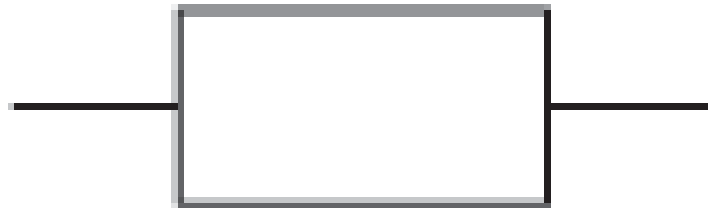
Name this circuit symbol.



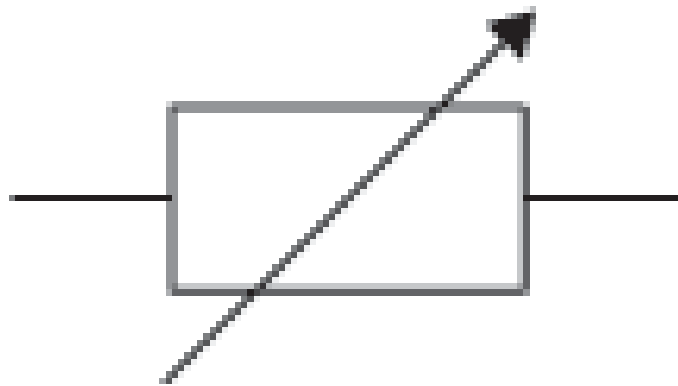
Name this circuit symbol.



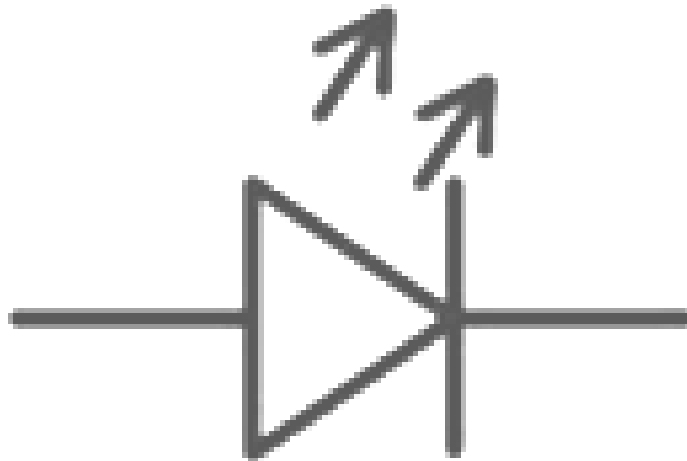
Name this circuit symbol.



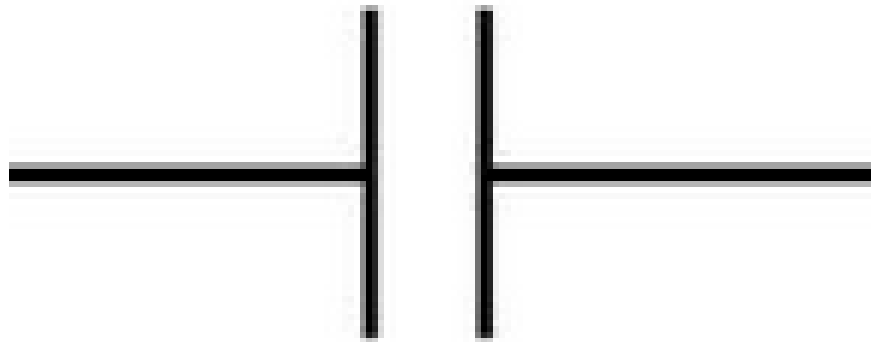
Name this circuit symbol.



Name this circuit symbol.



Name this circuit symbol.



Name this circuit symbol.



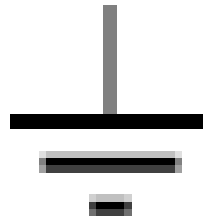
Name this circuit symbol.



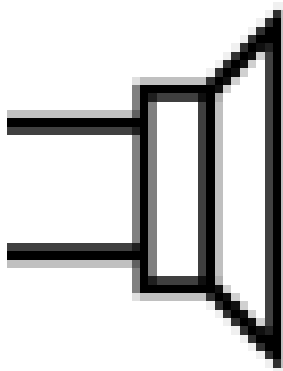
Name this circuit symbol.



Name this circuit symbol.



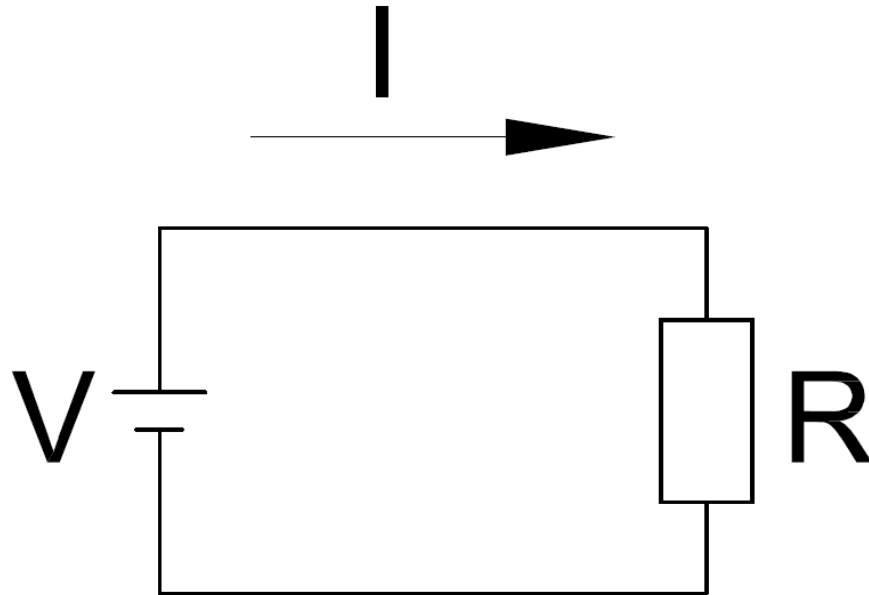
Name this circuit symbol.



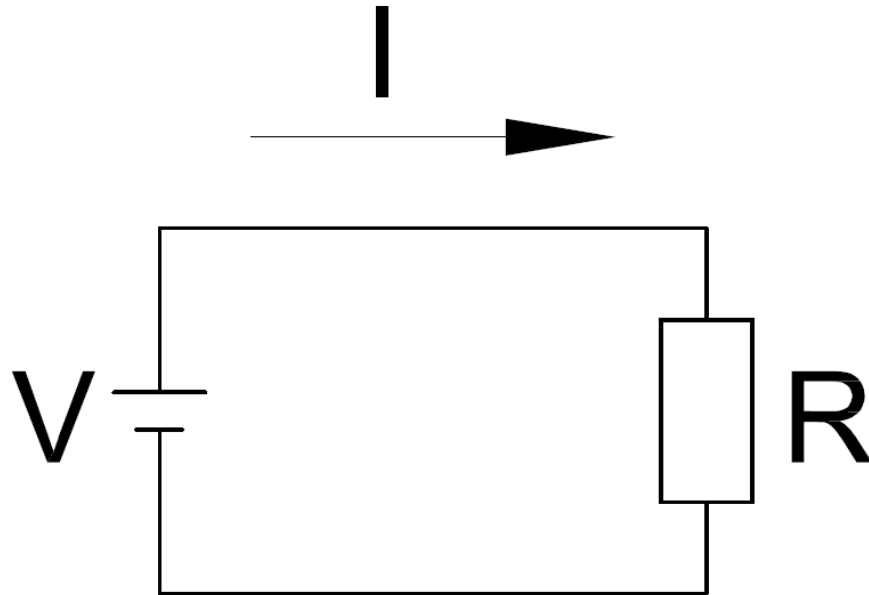
What is the unit for measuring resistance?



What is the unit for measuring current?



What is the unit for measuring voltage?



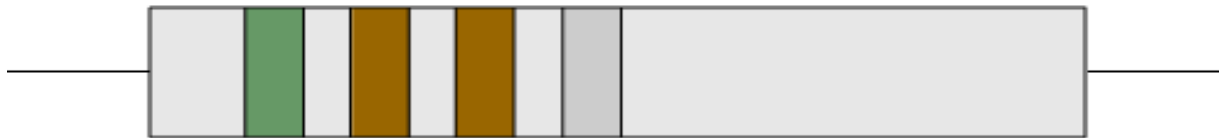
What is the value of this resistor?



1st Digit	2nd Digit	Multiplier	Multiplier
0	0	1	
1	1	10	1%
2	2	100	2%
3	3	1,000	
4	4	10,000	
5	5	100,000	
6	6	1,000,000	
7	7		
8	8	0.1 (Gold)	5% (Gold)
9	9	0.01 (Silver)	10% (Silver)

?Ω ± ?%

What is the value of this resistor?



1st Digit	2nd Digit	Multiplier	Multiplier
0	0	1	
1	1	10	1%
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?Ω ± ?%

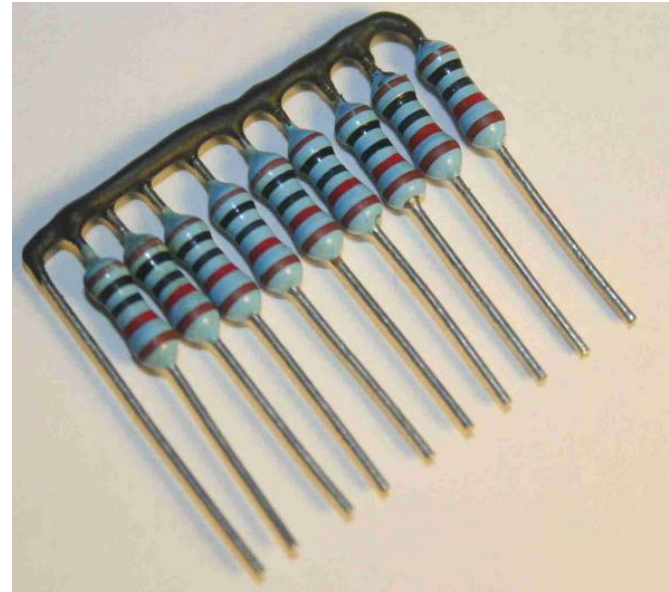
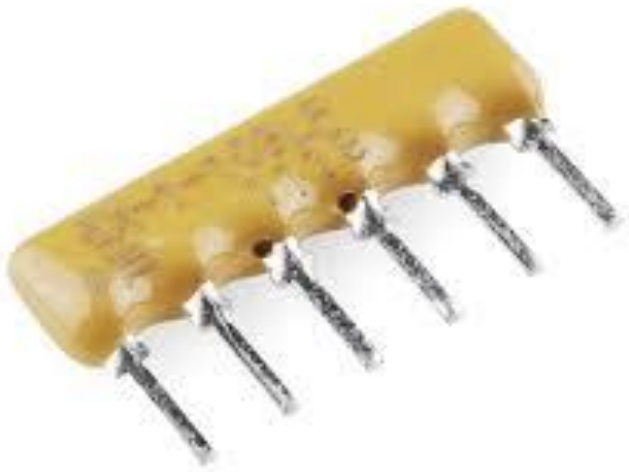
What is the value of this resistor?



1st Digit	2nd Digit	Multiplier	Multiplier
0	0	1	
1	1	10	1%
2	2	100	2%
3	3	1,000	
4	4	10,000	
5	5	100,000	
6	6	1,000,000	
7	7		
8	8	0.1 (Gold)	5% (Gold)
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?Ω ± ?%

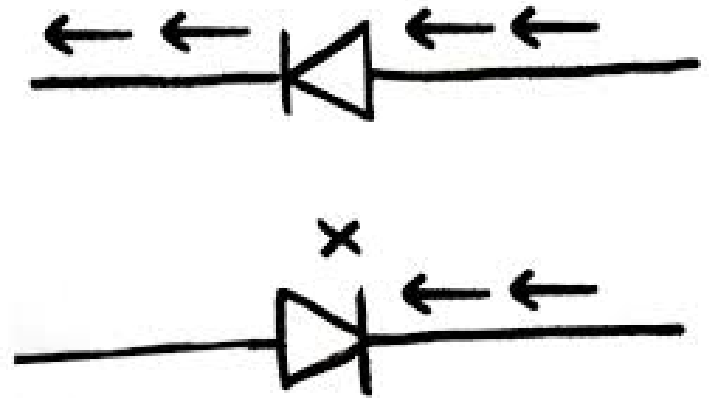
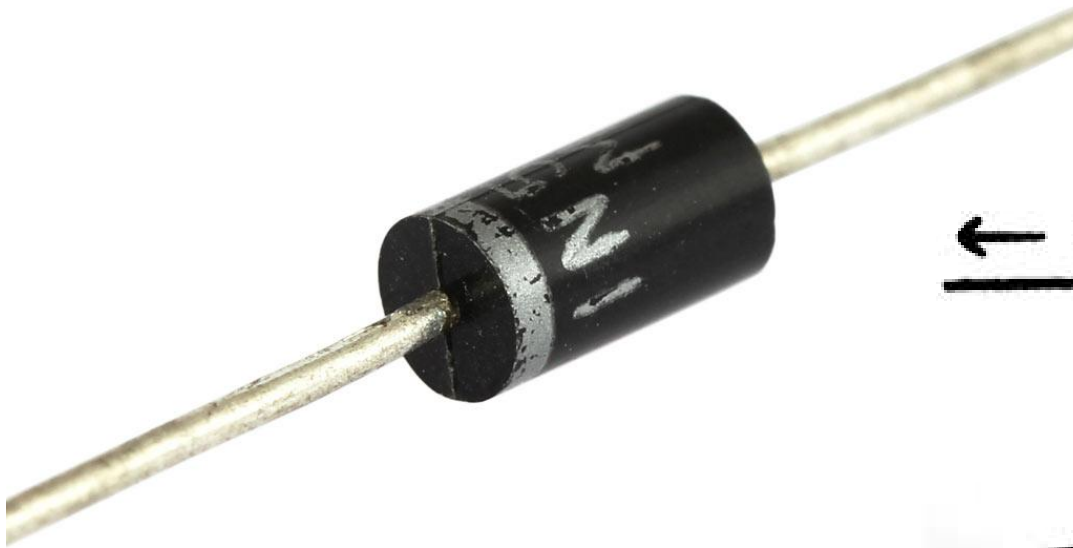
What is this component called and what does it do?



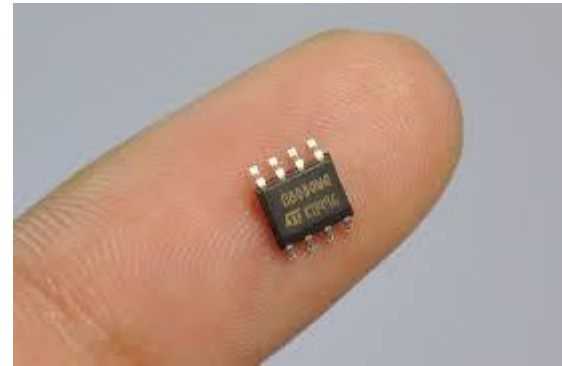
What is this component called and what does it do?



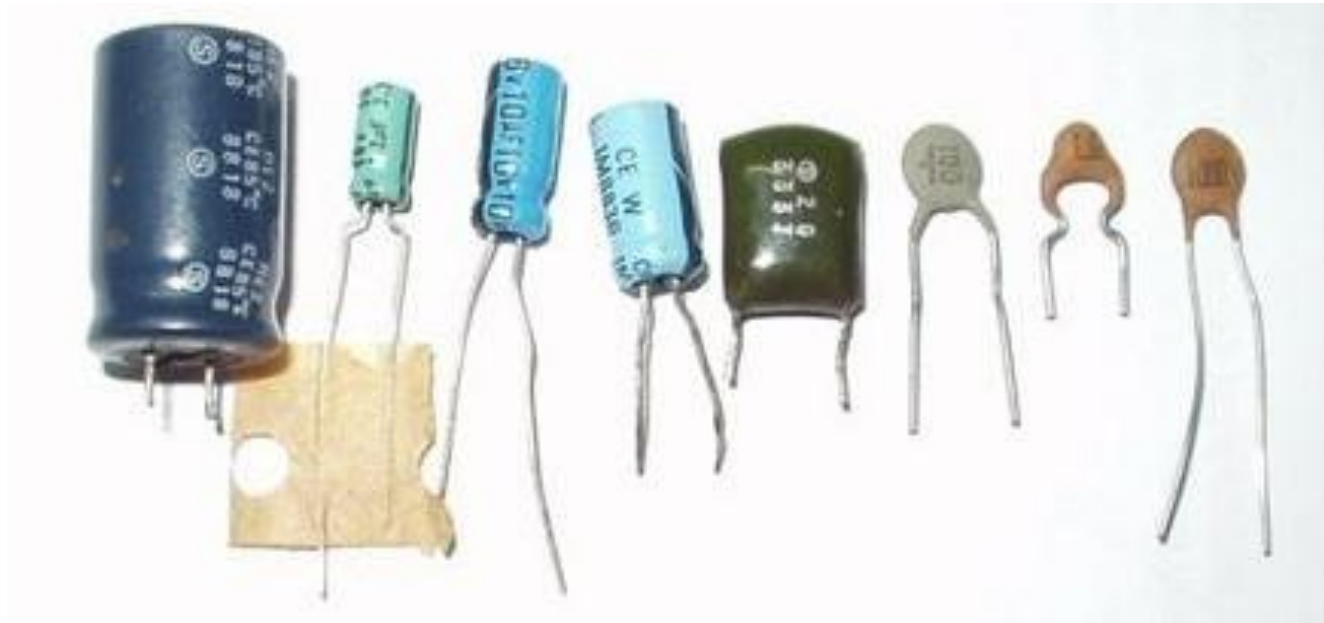
What is this component called and what does it do?



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What is this component called and what does it do?



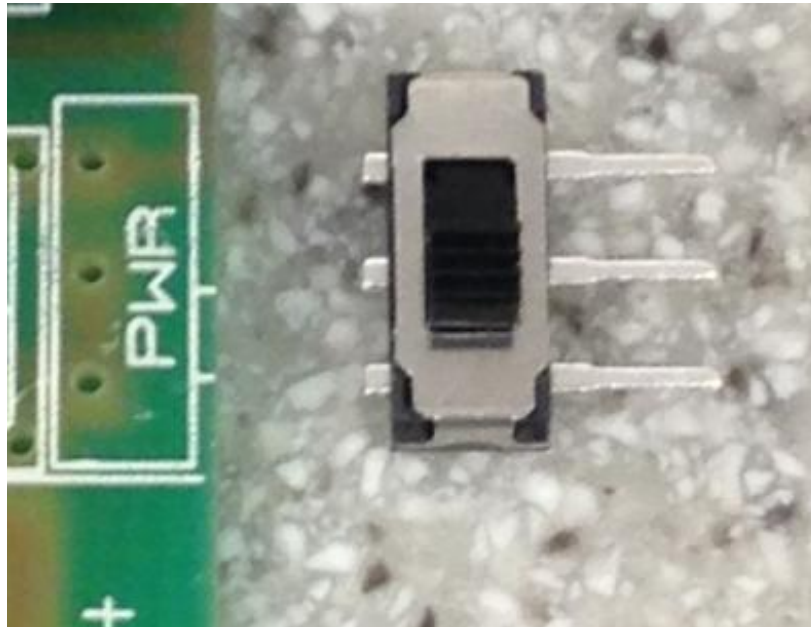
What is this component called and what is it used for?



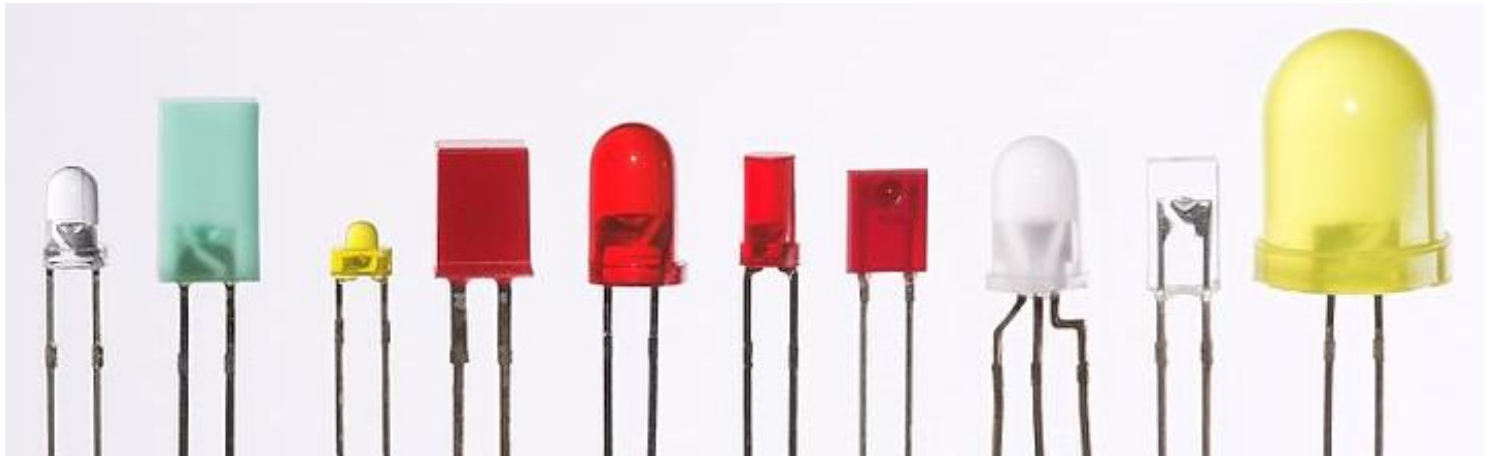
What are these called and used for?

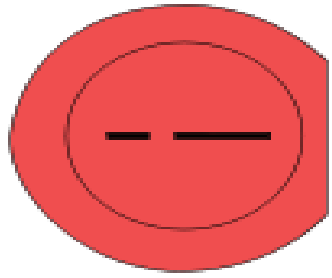


What is this component called and what does it do?

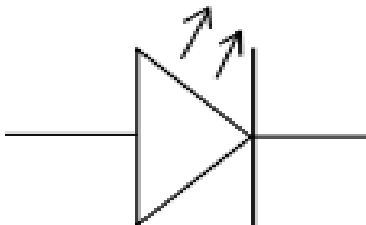
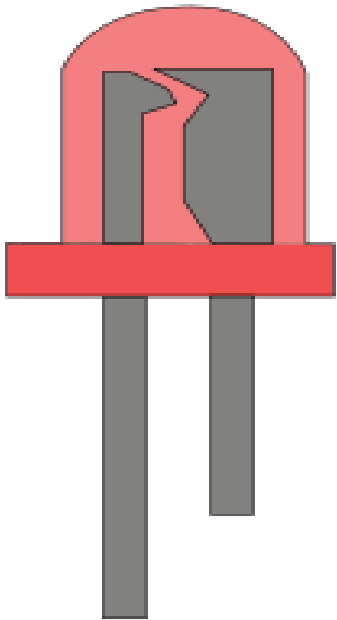


What is this component called and what does it do?





Which side is the Positive (Anode) and which is the Negative (Cathode)?



What is AC and DC and what is the difference between the two?



Which statement best describes Current?

1. *How difficult it is for electricity to flow through something.*
2. *How hard electricity is being “pushed” through a circuit.*
3. *How much electricity is flowing through the circuit*

Which statement best describes Voltage?

1. *How difficult it is for electricity to flow through something.*
2. *How hard electricity is being “pushed” through a circuit.*
3. *How much electricity is flowing through the circuit*

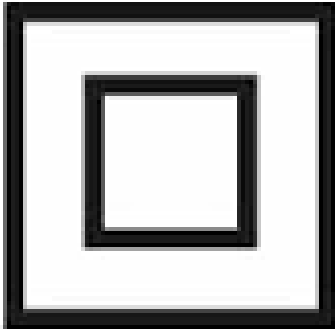
Which statement best describes Resistance?

1. *How difficult it is for electricity to flow through something.*
2. *How hard electricity is being “pushed” through a circuit.*
3. *How much electricity is flowing through the circuit*

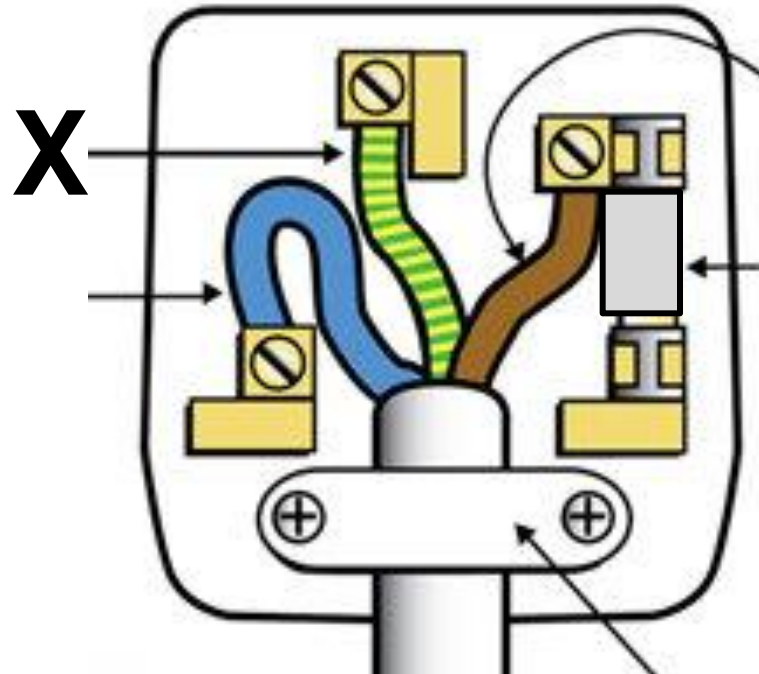
Explain what a CONDUCTOR is and
give an example.

Explain what a INSULATOR is and
give an example.

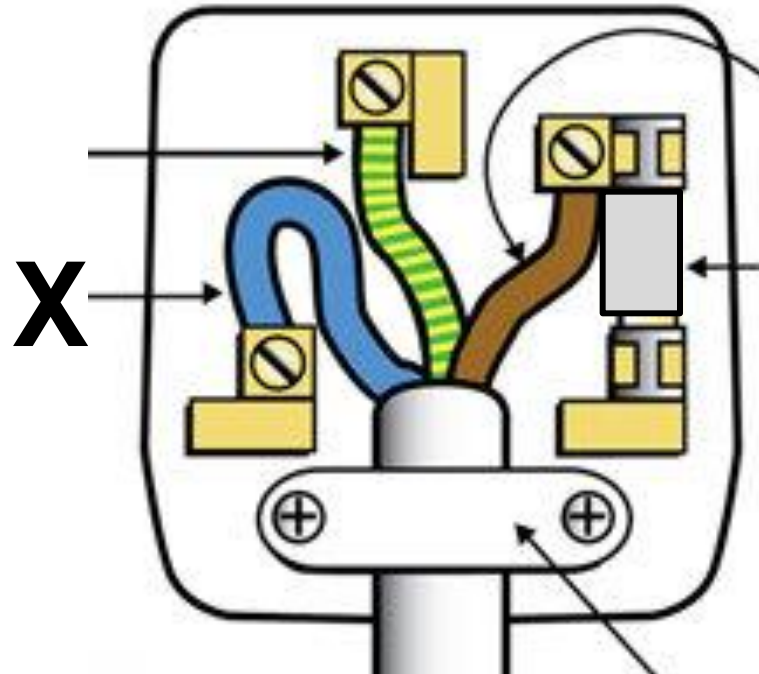
What does this symbol mean?



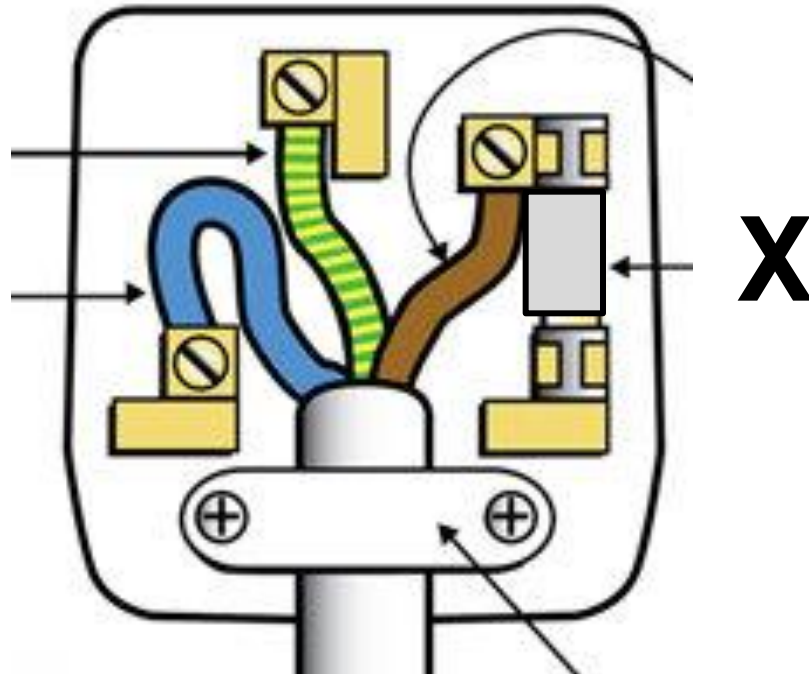
What is part X called?



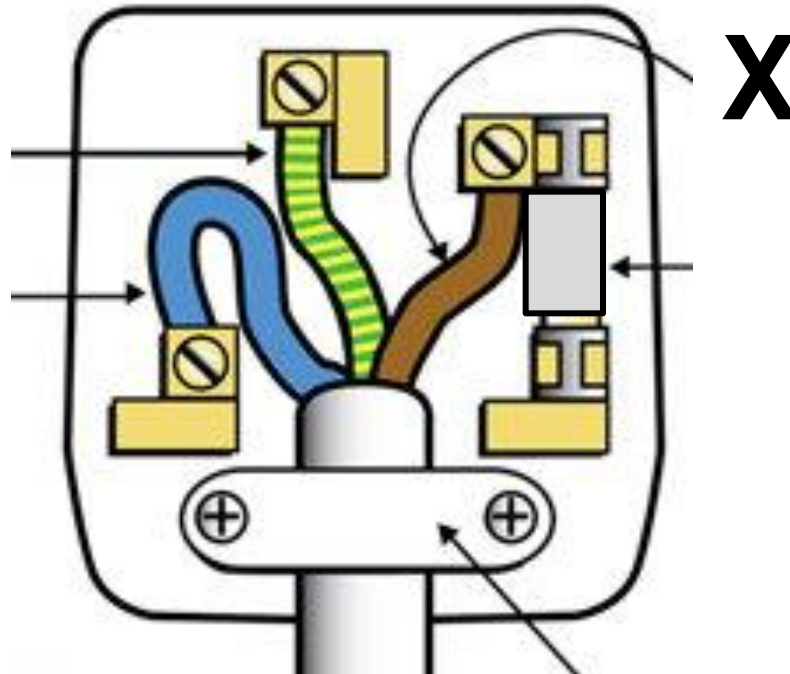
What is part X called?



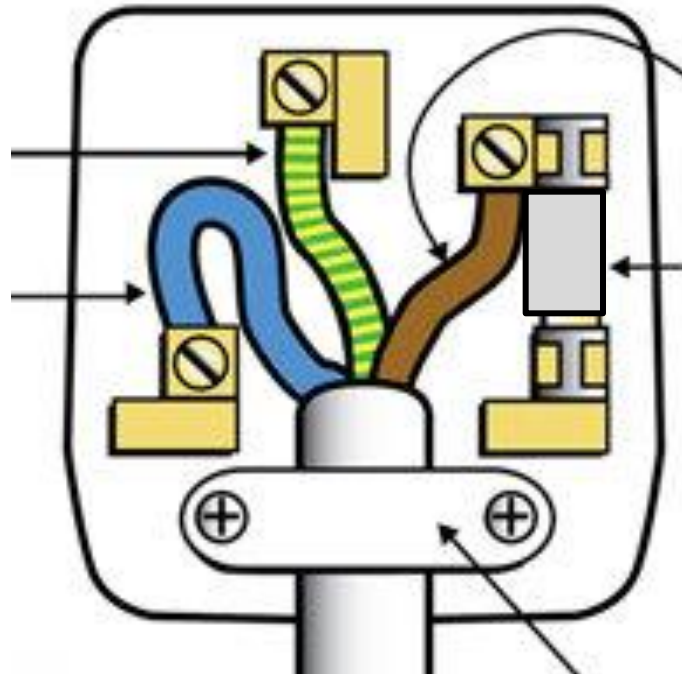
What is part X called?



What is part X called?

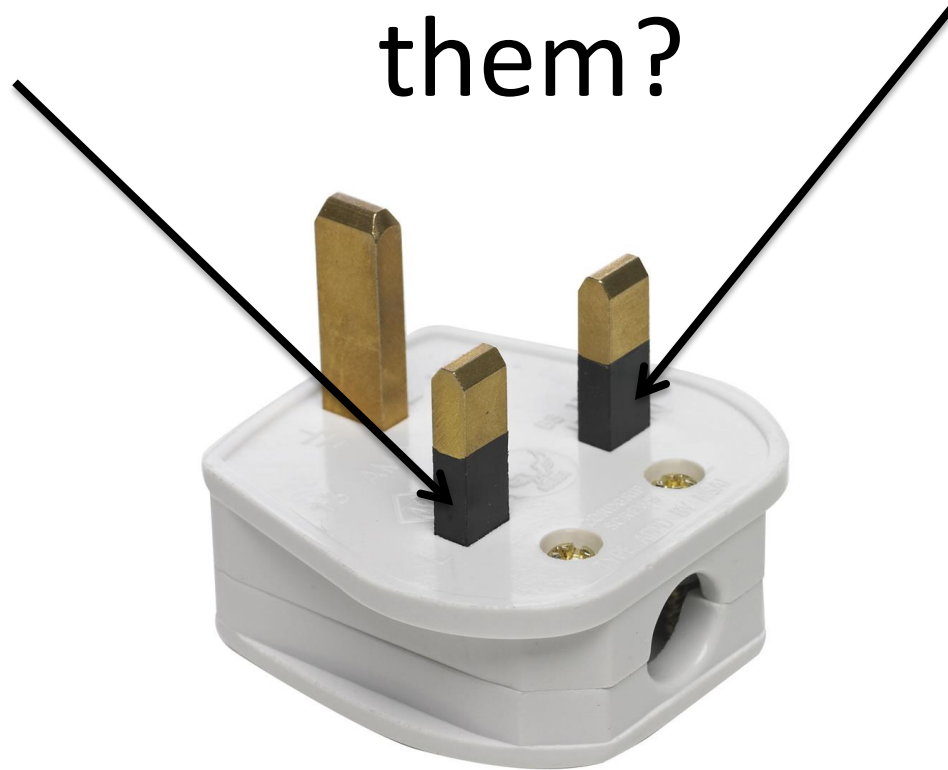


What is part X called?



X

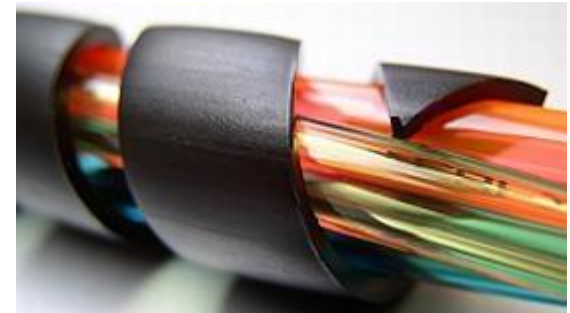
Explain why the bottom two pins
have black insulation around
them?



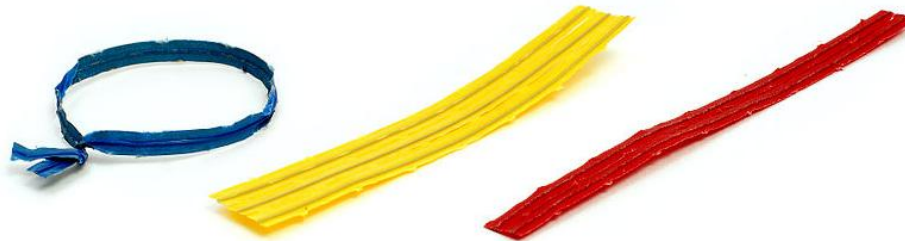
What is the name of this wiring technique?



What is the name of this wiring technique?



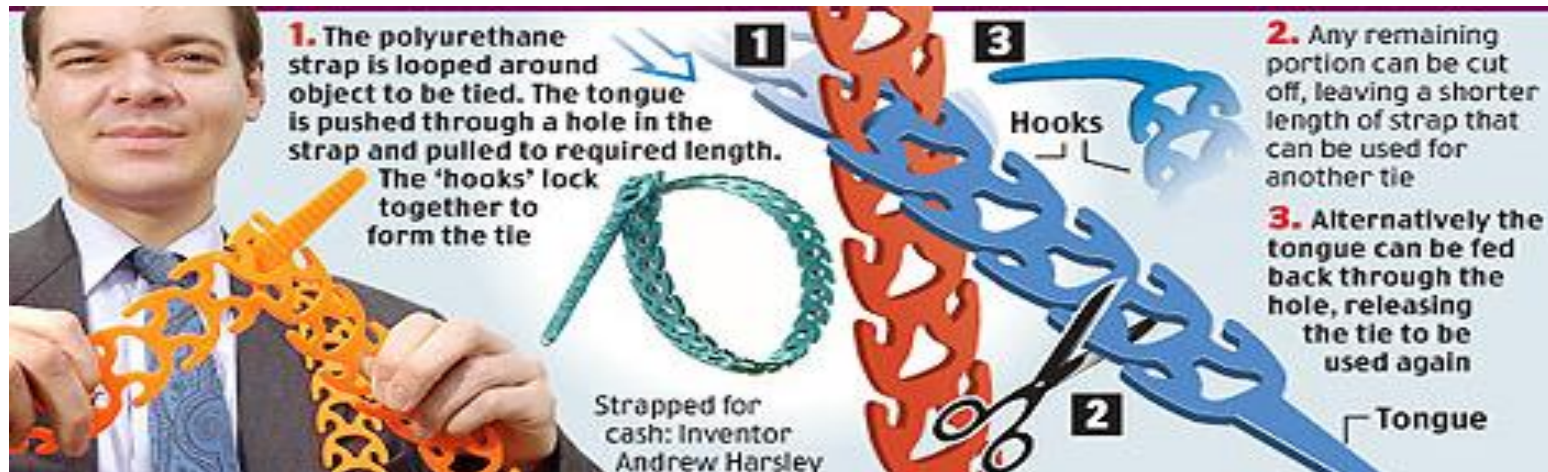
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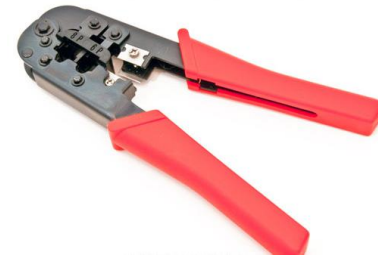
What is the name of this wiring technique?



What is the name of this wiring technique?



What is the name of this wiring technique?



What are these called and used for?

