

BNC to Oscilloscope Probes

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Electronics & Prototyping



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BNC oscilloscope probes connect signals to the scope with a spring-loaded tip, ground clip and switchable 1x/10x attenuation, letting users measure everything from sensor outputs to PWM without loading the circuit down.

Key Features

- 10x and 1x switchable attenuation
- 100 MHz+ bandwidth ratings
- Compensation capacitors
- Spring-loaded hook tips
- Ground clip leads

Typical Uses in the Workshop

- Measure signals on scopes and logic analyzers
- Probe IC pins and test points
- Connect function generators
- Kits for the bench signal path

Safe Operation

1. Set the probe to 10x for most signals
2. Compensate the probe on the scope's reference output
3. Connect the ground clip first
4. Hook the tip on the test point
5. Adjust the bandwidth switch if fitted

SAFETY NOTES

- Never probe mains or high voltages with standard probes
- Check the probe's rated voltage
- Keep the ground clip connected when in 10x mode
- Do not probe live circuits beyond the rating
- Store probes with tips protected

Maintenance & Consumables

- Check the tip and ground lead
- Re-compensate after cable bends
- Replace worn probe tips
- Keep spare probes for the scopes
- Clean contacts with IPA

Specification & Buying Notes

Quality 100 MHz 10x probes with compensation adjustment suit school scopes. Buy a spare probe per scope - tips and leads are consumables.