



**WORLD
PRECISION
INSTRUMENTS**
Instrumenting scientific ideas

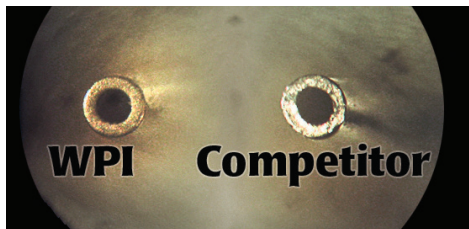
Neuroscience Cannulas

For in vivo investigation of rodents

Exceptional Quality • Best Prices • Rapid Order Response

This cannula system for neuroscience study and pre-clinical research includes an entire range of cannula options. The three primary components include the Guide Cannula, the Internal Cannula and the Dummy Cannula (cap).

- WPI cannulas are beveled inside and out and then polished to remove any burrs and ensure that the inside diameter is perfectly cylindrical. This limits undesired trauma to tissue and ensures smooth operation.
- WPI offers exceptional quality at the best prices.
- Quantities of each item are kept in stock so you can order as needed.

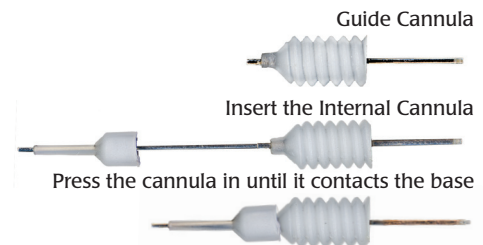


See the difference. Compare the cannulas under a microscope.

Guide Cannulas



The Guide Cannula is a surgical grade, stainless steel tube that is implanted into a rodent's skull and cemented into place using dental cement and screws. It guides the Internal Cannula to the specific injection site.



Internal Cannula



The Internal Cannula is inserted into the Guide Cannula to sample or inject fluid.

Dummy Cannula



The Dummy Cannula has a stainless steel wire core, and it is placed in the Guide Cannula when the Internal Cannula is removed. It seals the opening and prevents tissue from entering the bottom of the Guide Cannula. The Dummy Cannula is threaded to securely tighten it so that the animal will not unscrew it while grooming.

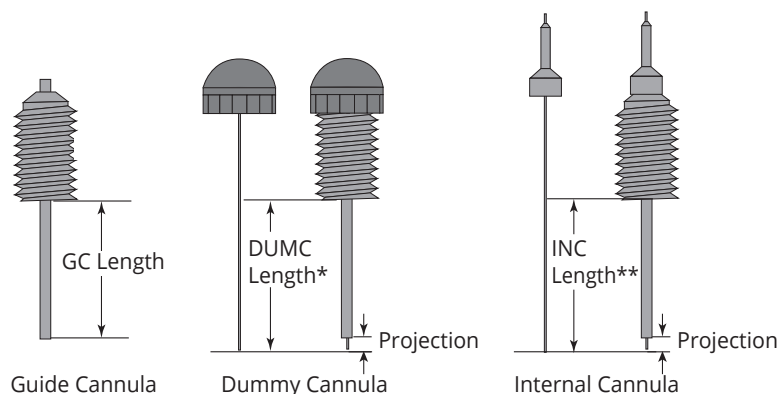
Dummy Cannulas are ordered based on the projection length, just like the Internal Cannulas. Dummy cannulas are available in 22 and 26 ga.

Ordering

Order the Guide Cannulas based on the gauge and length from the base and the Internal or Dummy Cannulas based on the length of the Guide Cannula and the projection from the Guide Cannula tip.

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* DUMC Length = GC Length + Projection. If the cap is screwed on too tightly, the projection will be longer than expected.

** INC Length = GC Length + Projection. Internal cannula mounts flush and does not screw into place.

Understanding Part Numbers

GC22-37

Cannula Type →
Gauge of Guide Cannula →
Length of Cannula →

Cannula Type
GC—Guide Cannula
INC—Internal Cannula
DUMC—Dummy Cannula

Gauge—Choose the gauge of the Guide Cannula that will be used, even if you are specifying an Internal or Dummy Cannula. Choices include 22, 24 and 26 gauge. Dummy cannulas are available in 22 and 26 ga.

Length—Guide Cannulas can be ordered in a range of lengths from 1.0–99mm. Length can be specified to 0.1mm, with a tolerance of ± 0.07 mm. For example, a **GC22-60** is a 22 ga. cannula that is 6.0mm long.

For other cannulas, the length is determined by the desired projection length and the guide cannula length. The projection can extend beyond the tip of the Guide Cannula up to 1.0mm.

DUMC Length = GC Length + Projection

INC Length = GC Length + Projection

For example, for an Dummy Cannula flush with the end of a 22ga. Guide Cannula that is 6.0mm long, order an **DUMC22-60**. For an internal cannula that projects 0.5mm beyond the 6.0mm Guide Cannula (6.5mm), order **INC22-65**.

ACCESSORIES

GCXX-YY	Guide Cannula, XX gauge (22, 24 or 26), Y.Y mm below plastic pedestal (1.0–99mm)
INCXX-ZZ	Internal Cannula, XX gauge (22, 24 or 26), Z.Z mm below plastic pedestal (1.0–99mm)
DUMCXX-WW	Dummy Cap, XX gauge (22, 24 or 26), WW mm below plastic pedestal (1.0–99mm)
504278	Flexible PE Tubing, 0.25mm ID, 0.5mm OD, 1m long
504279	Flexible PE Tubing, 0.42mm ID, 0.85mm OD, 1m long
504280	Flexible PE Tubing, 0.6mm ID, 1.1mm OD, 1m long
504281	Fixing Screw for Connecting Injector and Guide Cannula
504282	Instant Cyanoacrylate Adhesive, 3g
504283	Instant Cyanoacrylate Adhesive, 20



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