

Adhesives Application Guide

Part No.	Description	Curing time	Useful Applications and Characteristics
Epoxies Form strong bonding. Used in wire bonding applications.			
4898	Silver filled conductive Epoxy	12 hrs@50C; 5 min @150C	Connecting conductors that can't be soldered. Constructing or connecting Ag/AgCl pellets.
7335	Carbon filled conductive Epoxy	48 hrs@25C; 5 min @150C	Constructing carbon electrode.
4886	High performance Structural Epoxy	12 hrs@25C.	Forms a strong and slightly flexible bond on plastic, metal, and glass. Bonds some low surface .
Hot melt (EVA) Easy to use for bonding, needs large gap filling			
13316	Mini Glue Gun with glue sticks	As soon as it cools down	Bonds wood, glass, metals, and many plastics.
Silicone Adhesives/Sealants/Primers Good moisture resistant and elastic. Low toxic.			
1571	Room temperature vulcanizing (RTV) adhesive. Acyloxy/moisture cure system. Acetic acid is cure by-product.	24hrs@25C	Has the best adhesion property in this silicone family. Will bond to many materials.
7128	RTV sealant. Alkoxy/Moisture cure system. Methanol as cure by-product.	72hrs@25C	Good for bonding or sealing electronics circuits (metal).
SYLG184	Sylgard, Two parts, vinyl/platinum cure sealant. Hydrogen as cure by-products. Very low toxic	24hrs@25C, 15 min.@150C	Coating Patch Clamp electrodes, Cell culture dish, making dissection pads.
Kwik-Sil	Two part, adhesive. Vinyl/platinum system, Hydrogen as cure by-products. Very low toxic.	< 5 min@25C	Live tissue and nerve studies. Medium strength adhesion.
Kwik-Cast	Two part sealant. Vinyl/platinum cure system. Hydrogen as cure by-products. Very low toxic.	< 5 min@25C	Sealant for live tissues. Embedding peripheral nerves with electrodes.
6820	Primer for silicone	N/A	Enhances adhesion of silicone adhesives for difficult to bond plastic surfaces
Cyanoacrylate Forms an instantaneous bonding.			
7341	Ethyl Cyanoacrylate, low viscosity 90-120 cps	<10 seconds	Mounting rat/mouse brain slices. Ideal for relatively small gaps and smooth surfaces. Bonds plastic, metals and rubber. Package of 10 vials, each approximately 1.5 mL.
7342	Ethyl Cyanoacrylate, high viscosity 1100-1600 cps	<30 seconds	Use on brain slice exp. Ideal for larger gaps, allows slightly longer bonding time. Bonds plastic, metals and rubber. Package of 10 vials, each approximately 1.5 mL.
Vetbond	Butyl Cyanoacrylate, Low toxic	<10 seconds	Bonds tissues, alternative to suture, helps small wound healing. Antimicrobial effect. Used in forensic science.
503763	Octyl Cyanoacrylate, Low toxic	<15 seconds	Suitable for surface wound bonding, protection, holding a sensor or other device on the tissue.

Kwik-Gard™

Kwik-Gard is specially packaged **Sylgard 184** silicone for quicker and easier application, eliminating the messy procedure of preparing the mixture before application. Its special cartridge controls the precise mixing ratio to ensure proper curing. The disposable tip mixes resin and hardener as they are dispensed. Since no air is introduced during mixing, the resin does not need degassing for most applications. The mixed silicone is applied directly to the site, reducing preparation time and material waste.

Each Kwik-Gard cartridge contains 37 mL of resin and hardener. The dispensing tip has a dead volume of 0.75 mL.



- KWIKGARD** Kwik-Gard Start-up Kit (incl. dispenser, 1 cartridge, 5 tips)
- KWIKGLUE** Kwik-Gard Refill (2 cartridges, 10 dispensing tips)
- KWIKMIX** Dispensing Tips (pkg of 10)
- KWIKGUN** Kwik-Gard Dispenser

Scotch-Weld 2216 Structural Epoxy



Probably still the best epoxy for bonding plastic, often used as the benchmark for testing the binding strength of other adhesives. The slightly rubbery texture also makes it less easy to break off. *It is the only epoxy known that can bond PEEK.* Color: gray. Cures at room temperature.

Shipping weight: 1 lb. (0.5 kg)

4886 Scotch-Weld 2216 (2 oz.)

Electrically Conductive Silver Epoxy

Two-component silver-filled epoxy for electrical connections which cannot be soldered, such as Ag/AgCl pellets. This widely used silver-filled epoxy features low viscosity and smooth flowing character. Pure silver is dispersed in both resin and hardener. Cures in 15 minutes at 120 °C. Mix ratio 1:1. May be premixed and frozen for later use.

Shipping weight: 1 lb. (0.5 kg)

4898 Silver Epoxy (1 oz.)

Electrically Conductive Carbon Epoxy

Two-component carbon-epoxy, curable at room and elevated temperatures. Ideal for electrostatic discharge protection and EMI/RFI shielding. 1:1 mix ratio. May be premixed and frozen for later use.

Shipping weight: 1 lb. (0.5 kg)

7335 Carbon Epoxy (2 oz.)



Silicone RTV adhesive (non-acidic)

Because it is non-corrosive, this material is ideal for use on metal, for encapsulating small circuits on connectors. After cure, will withstand -55° to 200 °C. No mixing required.

Shipping weight: 1 lb. (0.5 kg)

7128 RTV Coating (3 oz.)

RTV Prime Coat

Enhances adhesion of silicone adhesives to many difficult-to-bond plastic surfaces.

Shipping weight: 1 lb. (0.5 kg)

6820 RTV Prime Coat, 400 ml (13.5 oz.)



Silicone RTV adhesive

Clear silicone sealant provides good bonding to plastic. After cure, will withstand -55 to 200 °C. No mixing required. A handy, general purpose laboratory sealant. (Releases acetic acid during curing.)

Shipping weight: 1 lb. (0.5 kg)

1571 RTV Sealant (4.7 oz.)

Mini Glue Gun

Comes with three sticks of special formula hot melt glue. UL approved. 110V 60Hz only.

Shipping weight: 1 lb. (0.5 kg)

13316 Mini Glue Gun

Low toxicity 5-minute adhesives for live tissues!

- **Specially formulated for WPI**
- **Extremely low toxicity**
- **Excellent moisture resistance**
- **Cures at room temperature**

Kwik-Sil and **Kwik-Cast** silicones are based on technology with vinyl terminated siloxane and platinum complex catalysts. In order to gain enough speed to cure at room temperature, special cross linkers and high catalyst concentration is used. Although the high concentration of catalysts makes these products more costly than traditional RTV silicones and less attractive for general usage, they provide an excellent value in applications for the biological research field.

Both **Kwik-Sil** and **Kwik-Cast** have very low toxicity before, during and after curing. In traditional RTV silicone systems, a by-product of the condensation (curing) is either acetic acid or alcohol, which are toxic to living cells. In vinyl systems, the by-product of condensation is a small amount of hydrogen gas, which is much less toxic to the cell.

Kwik-Sil and **Kwik-Cast** curing speed is hundreds of times faster than traditional RTV silicones. A curing time of a few minutes at room temperature is especially useful for encapsulation of live tissue or implanting into a live animal.

Unlike many vinyl-based silicones in which the platinum complex catalysts are easily poisoned by contamination from amines and animal tissue, **Kwik-Sil** and **Kwik-Cast** are not sensitive to contamination from animal tissue.

Kwik-Sil[™] is a translucent, medium-viscosity silicone adhesive, developed for chronic peripheral nerve studies such as anterograde tracing with fluorescent indicators or electrode recording. Good adhesion and mechanical properties (tear strength and elongation) allow days of study without breaking of the bonding. Curing speed is very reproducible.

10 mixing tips included



Kwik-Cast[™] is a very low viscosity silicone sealant developed to embed peripheral nerves with electrodes for acute multi-fiber recordings. It flows easily, filling the small spaces around the nerve and leaving no channels through which peritoneal fluid can travel and thus short the nerve/electrode contact. Equally

important is the ability of the material to flow into itself and create one continuous mass from underneath the nerve all the way to the top of the nerve/electrode contact to ensure long-term recording stability. **Kwik-Cast** is color-coded to make the mixing foolproof. The catalyst is yellow and the base is blue. When uniformly mixed, it is green. **Kwik-Cast** can be applied and cured underneath mineral oil. After recording, electrodes are easily recovered due to the low tear strength.



10 mixing tips included

KWIK-CAST & KWIK-SIL SPECIFICATIONS

	Kwik-Sil	Kwik-Cast
Mix Ratio	1 to 1	1 to 1
Working time	< 5 minutes*	4 minutes
Setting time (room temp., 1:1 ratio)	5-10 minutes**	< 10 minutes
Cure time	~15minutes	
Viscosity, cps	15,000	10,000
Shelf life at 23 °C	1 year	1 year
Volume	5 mL	5 mL
Number of mixing tip	10	10
Dead volume of the mixing tip	<0.12 mL	<0.12 mL
AFTER CURING 24 HOURS:		
Tear Strength, ppi	90	44
Elongation %	650	60
Durometer (shore A-2)	30	36
Color	translucent	green
Volume Resistivity, W/cm	1x10 ¹⁵	1x10 ¹⁵

* 3 minutes average with about 90 seconds of liquidity

** no longer mixable at this point

KWIK-SIL Silicone Adhesive Compound (two 5-mL syringes)

KWIK-CAST Silicone Casting Compound (two 5-mL syringes)

600009 Replacement Mixing Tips (pkg of 10)

PRICE BREAK

1-5 pkg 6-9 pkg More than 10

KWIK-CAST
KWIK-SIL

"Super" Adhesives for Life Science Research

Cyanoacrylate adhesives have been on the market since 1958. Most industrial or household grade cyanoacrylate is made of shorter alkyl chain derivatives such as methyl or ethyl cyanoacrylate (WPI's #7341 and #7342). They are very useful for temporarily holding tissues such as mounting specimens for microtome sectioning. However, they are not suitable for bonding wounds on live animals. The difficulties of using cyanoacrylate for bonding live animals are: (1) a strong, irritating odor; (2) quick loss of bonding strength due to breakdown of the bonding by hydration; (3) the breakdown products, cyanoacetate and formaldehyde, are toxic and can cause inflammatory reactions; and (4) they have low flexibility and tend to be brittle.

To overcome these problems, several longer alkyl chain cyanoacrylates have been developed especially for veterinary and human use. The first longer alkyl chain product is butyl cyanoacrylate. This product has been used for animal and human applications outside the USA since 1970. It is much less toxic and has a lower odor than the methyl or ethyl cyanoacrylate. The butyl cyanoacrylate offered by WPI is **Vetbond™**.



A family of adhesives

containing *octyl cyanoacrylate*, a plasticizer and stabilizer, was developed in the 1990's (one of them approved by FDA for human use). When bonding to tissue, these new adhesives are four times stronger and less toxic than butyl cyanoacrylate. Compared

with the traditional suture, the new super adhesive has several advantages. On average, it takes **only one-tenth of the time** to close an incision. The **bonding strength** is equal to 5-0 monofilament suture. It also has a mysterious **antimicrobial effect** that can decrease infection rates in contaminated wounds. Bonding will slough off naturally in 5 to 7 days. Cosmetic appearance of the healed incision is also better.



Gluture Topical Tissue Adhesive #503763 forms a strong and flexible film and is thus more suitable for surface wound bonding, protection, and holding a sensor or other device on the tissue. Setting time is about 10 seconds, which gives ample time for application. It can also be used for temporarily holding a live tissue. For example, there is a report of using it to hold nematodes on a glass slide for patch-clamp neurons recording.

All of the products offered by WPI are veterinary grade (not suitable for human application). Though very similar to the grade for human use, they are not sterile and do not have FDA approval.

503763	Gluture Topical Tissue Adhesive (10 tips), 1.5 mL
7341	Cyanoacrylate Adhesive, low viscosity—90-120 cps (package of 10 vials, each approx 1.5mL)
7342	Cyanoacrylate Adhesive, high viscosity—1100-1600 cps (pkg of 10 vials, each approx 1.5mL)
VETBOND	3M Vetbond™ Adhesive (3 mL)

Sylgard



A two-part silicone elastomer, ideal for potting and encapsulating applications. Very low dielectric constant sealing compound used in patch clamping and many other lab applications. After cure, will withstand -55° to 200 °C.

Shipping weight: 2 lb. (1 kg)

SYLG184 Sylgard (1.1 lb)

Silicone Dissecting Pad Kit



Make your own silicone dissection pads easily and quickly. Mix the 2-part silicone right in the plastic petri dishes and allow to cure 24 hours at room temperature. Kit includes enough silicone to prepare 20 dishes.

Kit Includes:

- 2-Part Sylgard silicone elastomer
- 20 plastic petri dishes with lids, 65mm
- Pins

501986 Silicone Dissecting Pad Kit

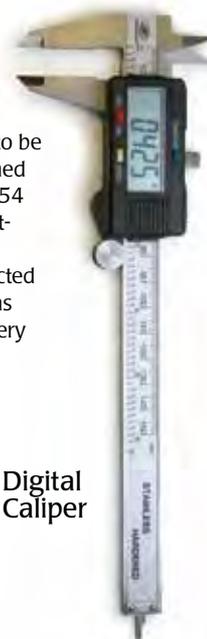
Digital Caliper & Micrometer



The high quality electronic digital caliper and micrometer are useful tools — no laboratory should be without one because they are more accurate and easier to use than the traditional analog units. Measure in either inches or millimeters at the touch of a button. The floating zero feature allows you to read the increment without calculation. Both of them have the SPC output

for interface with external readout devices. The caliper is made from hardened stainless. The micrometer meets the IP54 as defined in the IEC529 standard that is resistance to dust and splashing water. The caliper measures up to 150 mm (6 in.) with 0.01 mm (or 0.0005") resolution. The micrometer measures up to 25 mm (1 in.) with 0.001 mm (0.00005 in.) resolution.

The micrometer is designed to be water-resistant to IP54 as defined in the IEC529 standard. The IP54 code's first digit "5" means dust-protected. The second digit "4" means that the caliper is protected against splashing water — it has to withstand a shower from every direction for 10 minutes.

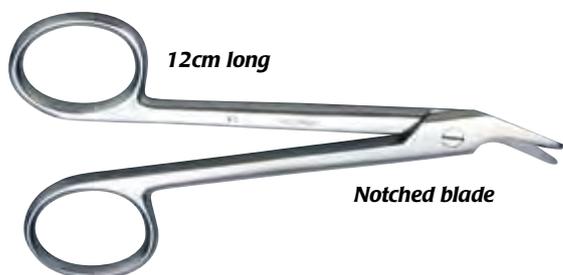


Digital Caliper

501601	Digital Caliper
503036	Digital Micrometer
502157	Replacement Battery (package of 10)

Digital Micrometer

Wire Cutters



12cm long

Notched blade

501321 Roger Wirecutting Scissors

Screwdriver Set



This production grade precision 5-piece screwdriver set is the highest quality tool you can find on the market. Made by German craftsmen, the chrome-vanadium tips will fit any screw securely without leaving marks. The set contains an ESD safe handle with 8 interchangeable blades. Phillips Sizes: 000, 00, 0, 1. Slotted Sizes: 1.5, 2.0, 3.0, 3.5 mm. The 000 size Phillips blade is the smallest you can find anywhere — it can fit smallest screw on a 35 mm camera. *Weight: 0.24 lb*

501635 Professional Quality Screwdriver Set

Magnetic Heating Stirrer



The Magnetic Heating Stirrer enjoys the advantages of convenience, stable and steady operation as well as indefinite speed regulation. It can carry out stable and precise agitation of solutions in a relatively common temperature range. It is especially suitable for agitation of small volume samples.

SPECIFICATIONS

SPEED RANGE	0-1400 rpm
TRAY DIAMETER	12 cm
HEATING POWER	100 W
POWER SUPPLY	AC 110 V / 50 Hz
DIMENSIONS	23 x 16 x 10 cm
STIRRING POWER	3 - 6 W
TEMPERATURE	20°C - 210°C

501610 WPI-02 Magnetic Heating Stirrer

Luer Valve Assortment Kit



A useful kit (above) for building your own liquid flow experiment. It provides the means to start, stop, add, divide and control a flow of liquid or gas. Included in the kit are **over 200 assorted parts** such as one-way and three-way stopcocks, manifolds, Y-connectors, injection sites, male and female luer caps, check valves, syringe-activated check valves, slide clamps, roller clamps, and pinch clamps. All (except clamps) have a luer fitting for quick and easy connecting and disconnecting. Includes assorted luer fittings for use with flexible tubing.

14011 Luer Valve Assortment Kit



Barb-to-Tubing Coupler Assortment Kit

Barb-to-Tubing Assortment Kit (at left) includes three different sizes of tubing and two boxes with different fittings, T-connectors, elbow connectors, check valves and plugs.

500890 Barb-to-Tubing Assortment Kit (polypropylene)

Includes 25ft. each of three tubing sizes: 1/16" ID, 1/8" ID, 1/4" ID



14012

Luer-to-Tubing Coupler Assortment Kit

Assemble quick-disconnect luer fittings for use with flexible tubing with internal diameters of $\frac{1}{16}$ ", $\frac{3}{32}$ ", $\frac{1}{8}$ " and $\frac{5}{32}$ ". A variety of quick-disconnect connectors can be quickly made for connecting small diameter flexible tubing; 3-way connections can be made with the use of the 3-way luer tee; luer plugs, tees, connectors, bulk-head mounts, color coding rings, locking nuts, male and female luers—are all included to enhance the versatility of this kit. **The kit has 253 assorted parts and is offered in two different types of materials.** Polypropylene fittings are chemically inert and resistant to most organic and inorganic solvents. Nylon fittings are strong and can be bonded with adhesive.

14012 Luer-to-Tubing Coupler Assortment Kit (Polypropylene)

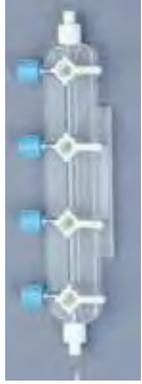
500895 Luer-to-Tubing Coupler Assortment Kit (Nylon)



500895

Parts now sold individually

Buy parts from Luer Valve Assortment Kit 14011 individually

	# 14040-50 Pinch Clamp for 7mm Tubing Pack of 50		# 14051-100 Pinch Clamp for 5mm Tubing Pack of 100			# 14042-100 Slide Clamp for 2.5 mm O.D. Tubing Pack of 100
	# 7465-20 Pinch Clamp Large Bore Pack of 20		# 14035-10 3-Way Stopcock, Luer lock, Pack of 10			# 14061-60 Male/Female Luer Plug Pack of 60
	# 14041-60 Roller Clamp 3/16" Tubing Pack of 60		# 14058-10 4-Way Stopcock, Luer Lock Pack of 10			# 13163-100 Male Luer Fitting for 5/32" ID Tubing Pack of 100
	# 13822-10 0.135"/3.4 mm OD Tubing Pack of 10		# 14036-15 4-Way Luer Stopcock Pack of 15			# 13162-100 Male Luer Fitting for 1/8" ID Tubing Pack of 100
	# 14045-20 Syringe Slip Luer Valve Activated Check Pack of 20		# 14057-10 4-Way Stopcock, Luer Lock Pack of 10			# 13161-100 Male Luer Fitting for 3/32" ID Tubing Pack of 100
	# 14044-5 Syringe Activated Dual Check Valve Pack of 5		# 14048-20 3-Port Infusion Y Swivel Thread Pack of 20			# 13160-100 Male Luer Fitting for 1/16" ID Tubing Pack of 100
	# 14039-10 Check Valve Pack of 10		# 14047-10 4-Port Infusion Y Swivel Thread Pack of 10			# 13159-100 Female Luer Fitting for 5/32" ID Tubing Pack of 100
	# 14034-40 Injection Site Male luer lock Pack of 40		# 14054-10 1-Way Stopcock, Luer Slip Pack of 10		# 13158-100 Female Luer Fitting for 1/8" ID Tubing Pack of 100	
	# 14038-10 1-Way Stopcock Luer Lock, Pack of 10		# 13157-100 Female Luer Fitting for 3/32" ID Tubing Pack of 100		# 14055-2 4-Port Manifold (6 Female Ports) Pack of 2	
	# 13156-100 Female Luer Fitting for 1/16" ID Tubing Pack of 100					

Parts in kit may differ slightly in appearance from those pictured.

Cables and Connectors



#1358



BNC Cables

- #2851 (6 ft)
- #500184 (10 ft)
- #500257 (6 in.)
- #500258 (12 in.)
- #500259 (18 in.)



#3492



#3508



#3517



#3578



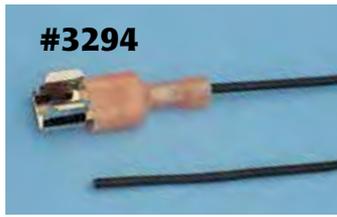
#3142



#3161



#3670



#3294



#5371



#3417-10



#5372



#3491



#5373



#5374



#5375



#5385



#13324



#13347



#13388



#13451



#13620



#13685



#13776



#13854



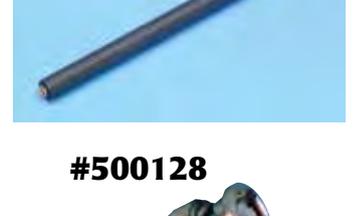
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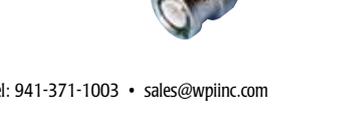
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#15976



#500128



#500256

LAB SUPPLIES

PART #	APPLICATION/DESCRIPTION	CONNECTOR A	CONNECTOR B	CABLE LENGTH
1358	Beetrodes	BNC (male)	2 mm pin	3 ft (0.9 m)
2026-10	2 mm socket, unwired (pkg of 10) (Not Shown)	2 mm socket	unwired	none
2851	Standard BNC cable	BNC (male)	BNC (male)	6 ft (1.8 m)
3142	Mini-Banana Adapter	Screw Terminals	Dual Mini-Banana	none
3161	Connector for input to TBM4M and BP-1	DIN (male)	unwired	none
3294	Ground wire for DAM80 probe	Clip	none	3 ft (0.9 m)
3417-10	2 mm plug, unwired (pkg of 10)	2 mm pin	unwired	none
3491	Extension for any 8-pin DIN	DIN (male)	DIN (female)	5 ft (1.5 m)
3492	Connector, adapts WPI transducers to non-WPI equipment	DIN (female)	unwired	none
3508	Adapts BNC pH electrode to pH meter with "U.S. Standard" input	BNC (male)	US Standard	none
3517	DAM50, DAM60, DAM70, shielded (two cables/pkg)	Modular phone plug, 4 wire	none	3 ft (0.9 m)
3578	Adapter cable for Ag/AgCl pellets	2 mm pin	none	5 ft (1.5 m)
3670	Double banana plug with solder turret terminals	Dual Banana (male)	Dual Banana (female)	none
5371	Low-noise cable for microelectrode holders	2 mm gold pin	2 mm gold pin	2 ft (0.6 m)
5372	Low-noise cable for microelectrode holders	2 mm gold jack	2 mm gold jack	2 ft (0.6 m)
5373	Low-noise cable for microelectrode holders	2 mm gold pin/jack	2 mm gold pin/jack	2 ft (0.6 m)
5374	Low-noise cable for microelectrode holders	BNC (male)	2 mm gold pin	4 ft (1.2 m)
5375	Low-noise cable for microelectrode holders	BNC (male)	2 mm gold jack	4 ft (1.2 m)
5385	Cable, shielded transducer stock	none	none	25 ft (7.6 m)
13324	Adapter	Double-banana (female)	BNC (male)	none
13347	ISO2 (chart recorder adapter)	Double-banana (male)	BNC (female)	none
13388	Electrode adapter for DAM probes	Miniature banana (male)	2 mm jack	none
13451	Adapter: Iso-DAM, Iso-DAM8	BNC (female)	two 2 mm pins	6 in. (15 cm)
13555	Serial Cable (not shown)	DB9 (male)	DB9 (female)	6 ft (1.8 m)
13620	Low-noise cable for microelectrode holders	2 mm gold pin	2 mm gold jack	2 ft (0.6 m)
13685	SP Series pump-to-pump linking cable	Modular phone plug	Modular phone plug	7 ft (2.1 m)
13776	Adapts reference electrode to VF4 ground jack	Banana (male)	2 mm jack	none
13854	BNC T-connector, male to:	BNC (female)	BNC (female)	none
14254	BNC Straight Adapter	BNC (female)	BNC (female)	none
15623	Serial cable and adapter, SP Series pump	SP Pump	IBM 9-pin "D" connector	5 ft (1.5 m)
15975	Adapter	2 mm socket	1 mm pin	none
15976	Adapter	1 mm socket	2 mm pin	none
300040	Adapter Extension	2 mm socket	2 mm socket	4 in. (10 cm)
500128	BNC Zero Ohm Terminator	BNC (male)	none	none
500184	Standard BNC Cable	BNC (male)	BNC (male)	10 ft (3 m)
500256	BNC Right Angle Adapter	BNC (male)	BNC (female)	none
500257	Standard BNC Cable	BNC (male)	BNC (male)	6 in. (15 cm)
500258	Standard BNC Cable	BNC (male)	BNC (male)	12 in. (30 cm)
500259	Standard BNC Cable	BNC (male)	BNC (male)	18 in. (46 cm)
501670	Coaxial Adapter	Dual Mini-Banana (male)	BNC (female)	none
503301	Cable, Extension	8-pin miniDIN (male)	8-pin miniDIN (female)	10 ft (3 m)
503536	Cable, USB	USB (male)	USB (female)	10 ft (3 m)
504713	Cable (red and black pair)	Banana (male)	Banana (male)	36 in. (91 cm)
504714	Cable (red and black pair)	Banana (male)	Mini-Gator	36 in. (91 cm)
504715	Cable (red and black pair)	Banana (male)	Mini-Clip	36 in. (91 cm)
504716	Cable (red and black pair)	Banana (male)	Micro-Clip	36 in. (91 cm)
CBL100	MiniPhone Patch Cable	3.5 mm MiniPhone plug	3.5 mm MiniPhone plug	6 ft (1.8 m)
CBL102	DAM Series, PM Series	3.5 mm MiniPhone plug	BNC (male)	6 ft (1.8 m)

#501670



#504716



#504713



#CBL100

#503536



#504715



#504714



#CBL102

FrameWorks

Non-Magnetic Bases, Stainless Steel Rods, & Clamps

These high quality components are made of stainless steel and polymer that resist organic solvents and corrosion. They can be easily assembled to make a stand-alone setup for student labs or to make a complicated frame for research labs.



503041
Large Clamp with Rod (157 mm), opens up to 85 mm



503042
Medium Clamp with rod (157 mm), opens up to 45 mm



503086
Small Clamp with rod (157 mm), opens up to 16 mm



502190 Heavy Rectangular Base (with M8 thread mount and thumbscrew mount), 23 × 15.6 cm, 4 lb

503083 Light Rectangular Base (with M8 thread mount and thumbscrew mount), 23 × 15.6 cm, 0.5 lb



503085 Large 10-in. V-base with M8 Thread Mount



503084 Small 6-in. V-base with M8 Thread Mount



14073-4
Open-sided Frame Clamp (pkg of 4)



503082-4
Board Frame Clamp, opens to 8.5mm (pkg of 4)



503080-4
Frame Clamp with Parallel Surface Mount (includes mounting screws) (pkg of 4)



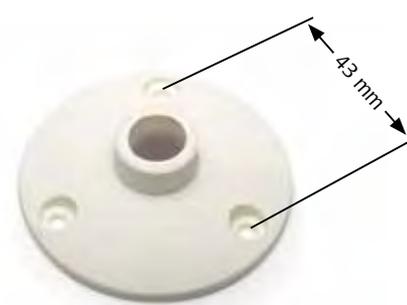
502193-4
Parallel Frame Clamp (pkg of 4)



503078-4
T-joint Frame Clamp (pkg of 4)



503079-4
In-line Frame Clamp (pkg of 4)



503081-4 Vertical Surface Mount, M8 Threaded

- 503070** Polished Stainless Steel Post, 12mm OD, 25cm long, no thread
- 503071** Polished Stainless Steel Post, 12mm OD, 50cm long, no thread
- 503072** Polished Stainless Steel Post, 12mm OD, 75cm long, no thread
- 503073** Polished Stainless Steel Post, 12mm OD, 25cm long, M8 thread
- 502191** Polished Stainless Steel Post, 12mm OD, 50cm long, M8 thread
- 503075** Polished Stainless Steel Post, 12mm OD, 60cm long, M8 thread
- 503076** Polished Stainless Steel Post, 12mm OD, 75cm long, M8 thread
- 503077** Polished Stainless Steel Post, 12mm OD, 80cm long, M8 thread



LAB SUPPLIES

g-SPIN™ Microcentrifuge



Also available:
4,000 RPM and
10,000 RPM
units — call for
details.

- Small size with rubber feet keeps the centrifuge stable
- Supplied with interchangeable rotors and adapters for 0.5mL-2.0mL microtubes and PCR strips
- On/off switch lets you start and stop in seconds
- Safety switch stops rotor without cover in place

g-SPIN SPECIFICATIONS

SPEED RANGE	6000 rpm, fixed
MAX. RCF	2000× g
TUBE CAPACITY	6 × 0.5/2.0 mL tubes 2 × 0.2 mL strip tubes
ROTOR	Fixed angle 6-place 0.5—2.0-mL tubes 2 strips PCR 0.2 mL tubes
DIMENSIONS	6"W × 5"H × 7"D
POWER	110V 60 Hz or 220V 50 Hz

G-SPIN6	Microcentrifuge, 6000 RPM, 110V 60 Hz
G-SPIN6-220	Microcentrifuge, 6000 RPM, 220V 50 Hz, CE
503529	Microcentrifuge tube, 0.5 mL, natural, bag/1,000
503530	Microcentrifuge tube, 1.5 mL, natural, bag/1,000
503531	Microcentrifuge tube, 2.0 mL, natural, bag/1,000
503532	Microcentrifuge tube strips, 0.2 mL, and domed cap strips, bag of 250
503537	Microcentrifuge tube strips, 0.2 mL, and flat cap strips, bag of 250

Rackmounting Hardware

Many instruments may be mounted in standard 19-inch instrument racks with the appropriate rackmount kit, as noted on the page featuring the instrument.

Dual rackmount kits allow many smaller instruments to be joined by bolting the chassis together and mounting the pair into a standard rack.

Brackets for instruments which are less than 17.5 inches wide have "wings" which extend to the standard rack width.



3484 Rackmount Kit for DAM Series amplifiers

DAM Series amplifiers and Iso-DAM amplifiers may be mounted to the rack panels above by fastening bolts (included) through holes in the panel.



←
2932 Rackmount Kit, 3½-in. high (121)

←
3468 Dual Rackmount Kit
(705, A320, A365, A385, A395)



←
2933 Rackmount Kit, 5¼-in. high
(260, 900A, DUO773, A310)

←
13025 Dual Rackmount Kit (TBM4M)



←
2935 Rackmount Kit, 8 ¾-in. high



↑
3469 Single Rackmount Kit (705,
A320, A365, A385, A395)



↑
13024 Single Rackmount Kit (TBM4M)