

AD-TECH[®]
MEDICAL INSTRUMENT CORPORATION

2005

Welcome!

Welcome to Ad-Tech's latest edition of products for neurosurgery and the surgical treatment of epilepsy. We wish to thank you for your support and for choosing Ad-Tech's fine products.

The Patient is Our Thought in Device Design Through Device Use®



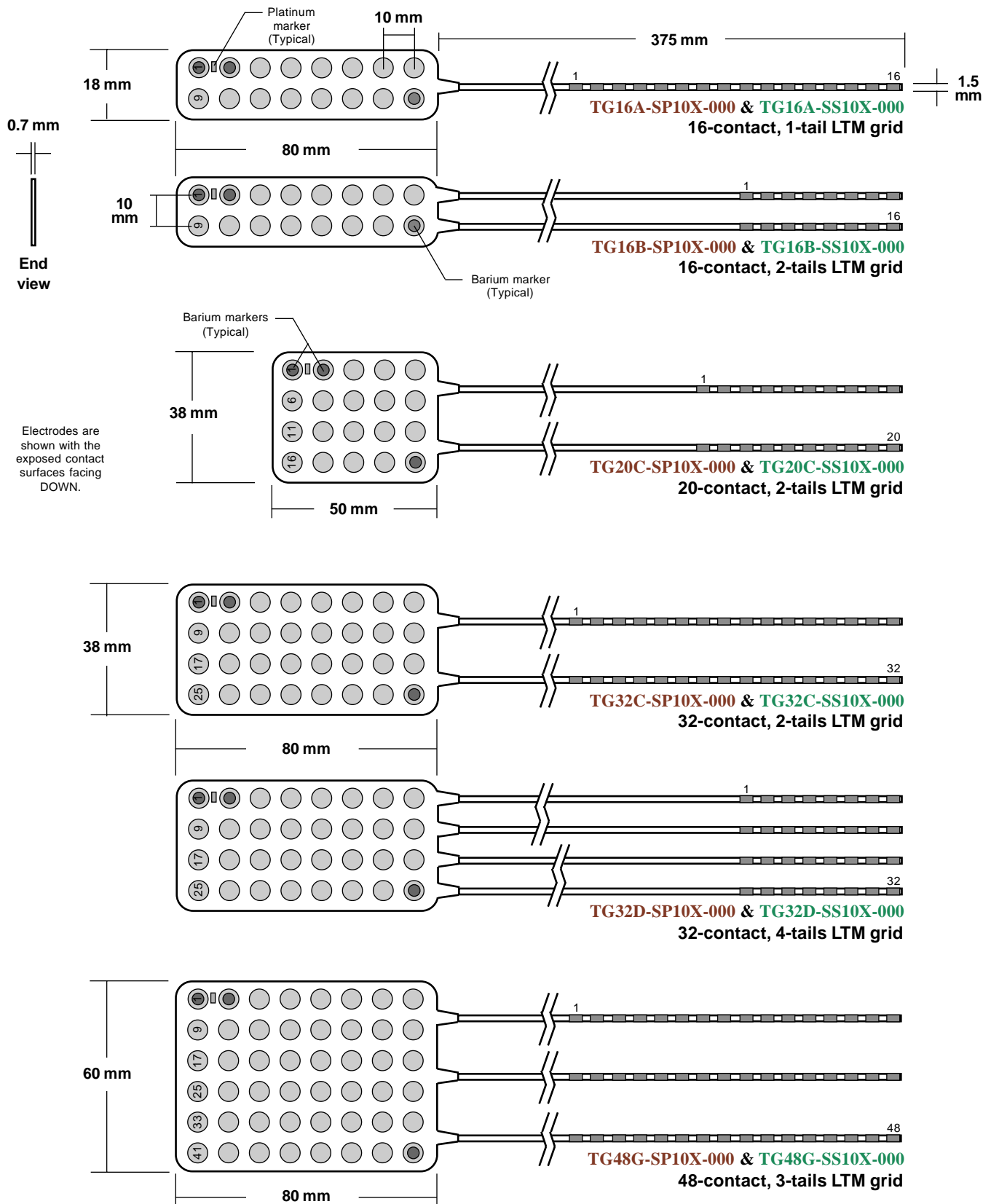
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A notice to our customers: This catalog introduces the new numbering system that we use to identify our subdural and depth electrode product families. To make this transition easier, this catalog includes a picture of each variant along with its new number. Electrodes with platinum contacts have their catalog numbers in **brown**; electrodes with stainless steel contacts list them in **green**. In addition, the former catalog number is shown in smaller print within the table itself. If you have any questions, please don't hesitate to contact us at any time.

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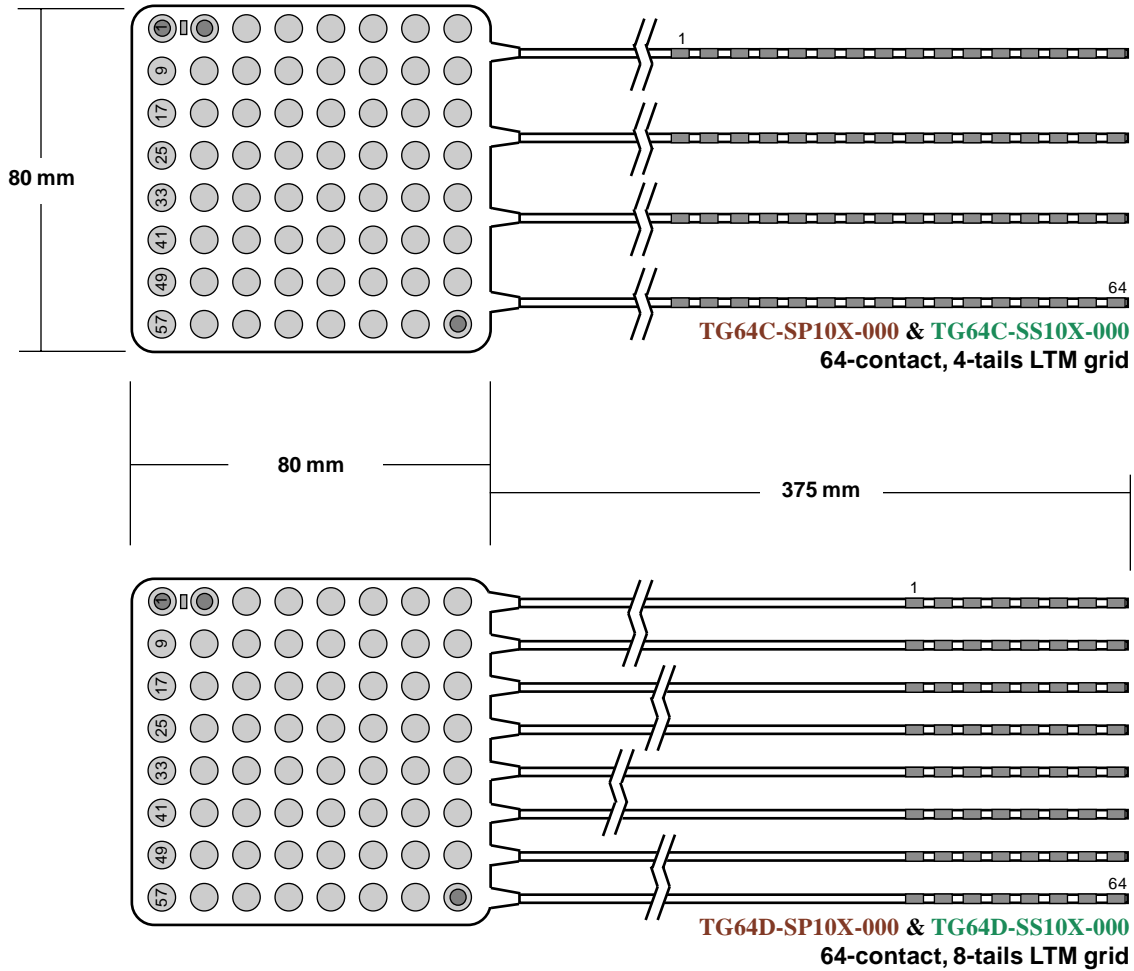
AD-TECH® EPILEPSY/LONG TERM MONITORING (LTM) SUBDURAL GRID ELECTRODES

- Epilepsy/LTM subdural electrodes are for monitoring/mapping the cortical surface for the surgical treatment of epilepsy
- Electrodes with **platinum** contacts have catalog numbers shown in **brown**
- Electrodes with **stainless steel** contacts have catalog numbers shown in **green**
- Please contact your AD-TECH representative for alternative designs or other special requirements



AD-TECH® EPILEPSY/LONG TERM MONITORING (LTM) SUBDURAL GRID ELECTRODES

Continued from page 4



Catalog Number	Former Number	Description ¹	No. of Contacts	Contact Size ²	Contact Material	Contact Spacing	CABRIO® Cable	TECH-ATTACH® Cable	Components Block	Qty
TG16A-SP10X-000	T-WS-16BPX	2 x 8, 1-tail LTM grid	16	4.0/2.3	platinum	10	L-SR-16BDIN	L-DC-16BDIN	DC-16X	(1)
TG16B-SP10X-000	T-WS-16PX	2 x 8, 2-tails LTM grid	16	4.0/2.3	platinum	10	L-SR-16DIN	L-DC-16DIN	DC-8X	(2)
TG20C-SP10X-000	T-WS-20PX	4 x 5, 2-tails LTM grid	20	4.0/2.3	platinum	10	L-SR-20DIN	L-DC-20DIN	DC-10X	(2)
TG32C-SP10X-000	T-WS-32BPX	4 x 8, 2-tails LTM grid	32	4.0/2.3	platinum	10	L-SR-32BDIN	L-DC-32BDIN	DC-16X	(2)
TG32D-SP10X-000	T-WS-32PX	4 x 8, 4-tails LTM grid	32	4.0/2.3	platinum	10	L-SR-32DIN	L-DC-32DIN	DC-8X	(4)
TG48G-SP10X-000	T-WS-48BPX	6 x 8, 3-tails LTM grid	48	4.0/2.3	platinum	10	L-SR-48BDIN	L-DC-48BDIN	DC-16X	(3)
TG64C-SP10X-000	T-WS-64BPX	8 x 8, 4-tails LTM grid	64	4.0/2.3	platinum	10	L-SR-64BDIN	L-DC-64BDIN	DC-16X	(4)
TG64D-SP10X-000	T-WS-64PX	8 x 8, 8-tails LTM grid	64	4.0/2.3	platinum	10	L-SR-64DIN	L-DC-64DIN	DC-8X	(8)
TG16A-SS10X-000	T-WS-16BX	2 x 8, 1-tail LTM grid	16	4.0/2.3	stainless	10	L-SR-16BDIN	L-DC-16BDIN	DC-16X	(1)
TG16B-SS10X-000	T-WS-16X	2 x 8, 2-tails LTM grid	16	4.0/2.3	stainless	10	L-SR-16DIN	L-DC-16DIN	DC-8X	(2)
TG20C-SS10X-000	T-WS-20X	4 x 5, 2-tails LTM grid	20	4.0/2.3	stainless	10	L-SR-20DIN	L-DC-20DIN	DC-10X	(2)
TG32C-SS10X-000	T-WS-32BX	4 x 8, 2-tails LTM grid	32	4.0/2.3	stainless	10	L-SR-32BDIN	L-DC-32BDIN	DC-16X	(2)
TG32D-SS10X-000	T-WS-32X	4 x 8, 4-tails LTM grid	32	4.0/2.3	stainless	10	L-SR-32DIN	L-DC-32DIN	DC-8X	(4)
TG48G-SS10X-000	T-WS-48BX	6 x 8, 3-tails LTM grid	48	4.0/2.3	stainless	10	L-SR-48BDIN	L-DC-48BDIN	DC-16X	(3)
TG64C-SS10X-000	T-WS-64BX	8 x 8, 4-tails LTM grid	64	4.0/2.3	stainless	10	L-SR-64BDIN	L-DC-64BDIN	DC-16X	(4)
TG64D-SS10X-000	T-WS-64X	8 x 8, 8-tails LTM grid	64	4.0/2.3	stainless	10	L-SR-64DIN	L-DC-64DIN	DC-8X	(8)

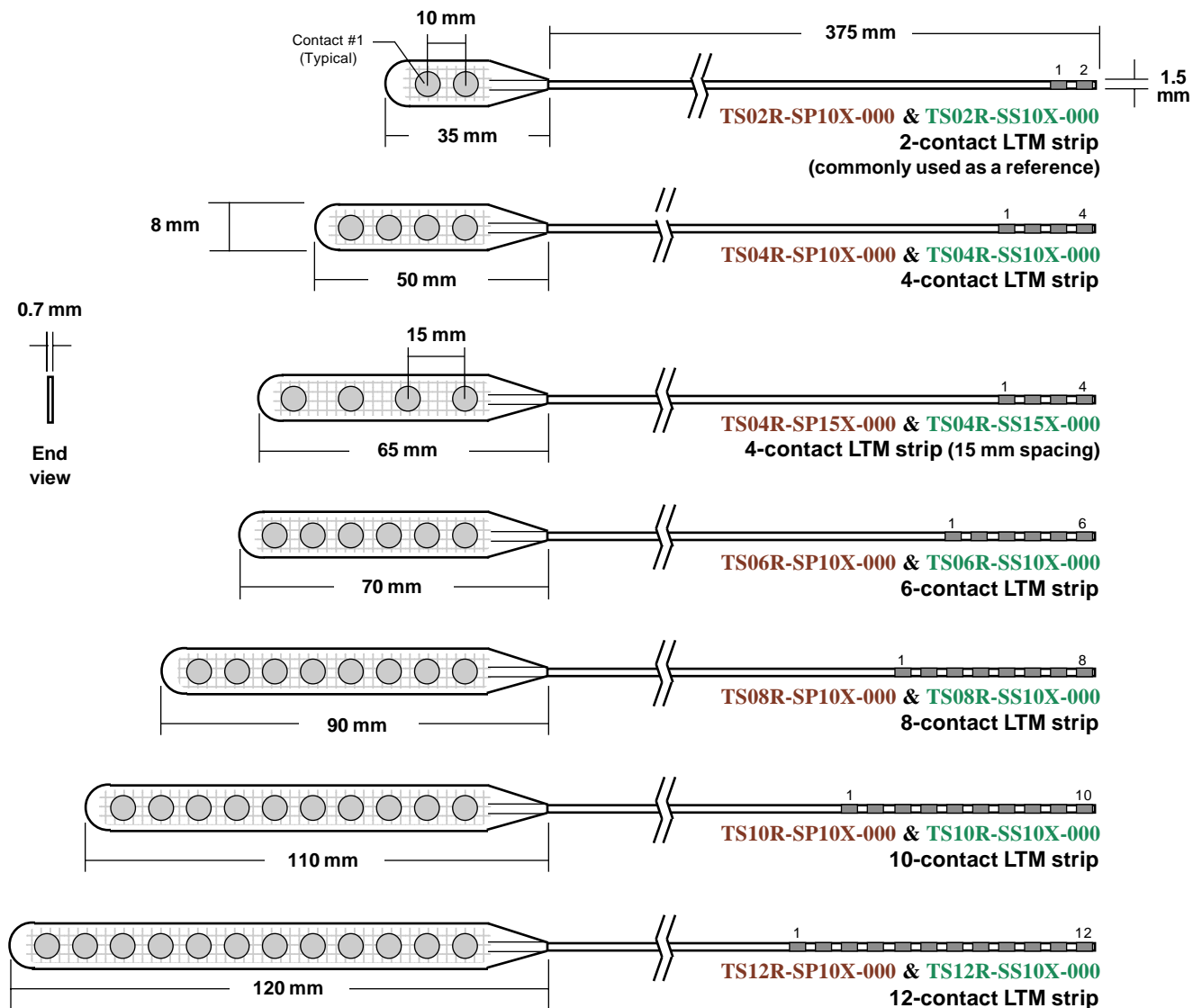
¹ Each electrode requires either the CABRIO cable or the TECH-ATTACH cable and the quantity of individual connector blocks as indicated.

² Contact size indicates the overall diameter of the contact followed by the diameter of the exposed surface (mm).

Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

AD-TECH® EPILEPSY/LONG TERM MONITORING SUBDURAL STRIP ELECTRODES

- 8 mm width ■ Platinum or stainless steel contacts ■ Sterile; single use only ■ Thin and flexible
- Please contact your AD-TECH representative for alternative designs or other special requirements



Catalog Number	Former Number	Description ¹	No. of Contacts	Contact Size ²	Contact Material	Contact Spacing	CABRIO® Cable	TECH-ATTACH® Cable	Components Block	Qty
TS02R-SP10X-000	T-WS-2PX	1 x 2 LTM strip	2	4.0/2.3	platinum	10	L-SR-2DIN	L-DC-2DIN	DC-2X	(1)
TS04R-SP10X-000	T-WS-4PX	1 x 4 LTM strip	4	4.0/2.3	platinum	10	L-SR-4DIN	L-DC-4DIN	DC-4X	(1)
TS04R-SP15X-000	T-WS-4APX	1 x 4 LTM strip	4	4.0/2.3	platinum	15	L-SR-4DIN	L-DC-4DIN	DC-4X	(1)
TS06R-SP10X-000	T-WS-6PX	1 x 6 LTM strip	6	4.0/2.3	platinum	10	L-SR-6DIN	L-DC-6DIN	DC-6X	(1)
TS08R-SP10X-000	T-WS-8PX	1 x 8 LTM strip	8	4.0/2.3	platinum	10	L-SR-8DIN	L-DC-8DIN	DC-8X	(1)
TS10R-SP10X-000	T-WS-10PX	1 x 10 LTM strip	10	4.0/2.3	platinum	10	L-SR-10DIN	L-DC-10DIN	DC-10X	(1)
TS12R-SP10X-000	T-WS-12PX	1 x 12 LTM strip	12	4.0/2.3	platinum	10	L-SR-12BDIN	L-DC-12BDIN	DC-12X	(1)
TS02R-SS10X-000	T-WS-2X	1 x 2 LTM strip	2	4.0/2.3	stainless	10	L-SR-2DIN	L-DC-2DIN	DC-2X	(1)
TS04R-SS10X-000	T-WS-4X	1 x 4 LTM strip	4	4.0/2.3	stainless	10	L-SR-4DIN	L-DC-4DIN	DC-4X	(1)
TS04R-SS15X-000	T-WS-4AX	1 x 4 LTM strip	4	4.0/2.3	stainless	15	L-SR-4DIN	L-DC-4DIN	DC-4X	(1)
TS06R-SS10X-000	T-WS-6X	1 x 6 LTM strip	6	4.0/2.3	stainless	10	L-SR-6DIN	L-DC-6DIN	DC-6X	(1)
TS08R-SS10X-000	T-WS-8X	1 x 8 LTM strip	8	4.0/2.3	stainless	10	L-SR-8DIN	L-DC-8DIN	DC-8X	(1)
TS10R-SS10X-000	T-WS-10X	1 x 10 LTM strip	10	4.0/2.3	stainless	10	L-SR-10DIN	L-DC-10DIN	DC-10X	(1)
TS12R-SS10X-000	T-WS-12X	1 x 12 LTM strip	12	4.0/2.3	stainless	10	L-SR-12BDIN	L-DC-12BDIN	DC-12X	(1)

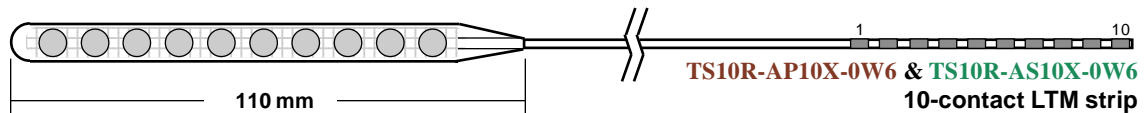
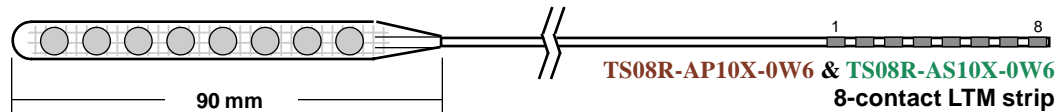
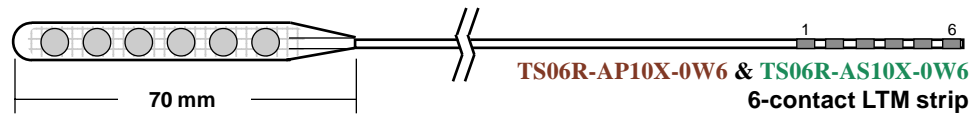
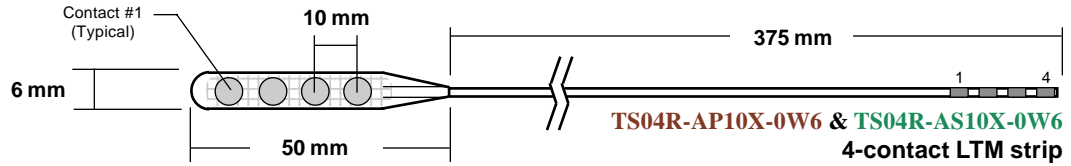
¹ Each electrode requires either the CABRIO cable or the TECH-ATTACH cable and the quantity of individual connector blocks as indicated.

² Contact size indicates the overall diameter of the contact followed by the diameter of the exposed surface (mm).

■ Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

AD-TECH® EPILEPSY/LTM NARROW-BODY SUBDURAL STRIP ELECTRODES

- 6 mm width
- Reduced contact exposure (1.8 mm diameter)
- Please contact your AD-TECH representative for alternative designs or other special requirements
- Platinum or stainless steel contacts
- Sterile; single use only



Catalog Number	Former Number	Description ¹	No. of Contacts	Contact Size ²	Contact Material	Contact Spacing	CABRIO® Cable	TECH-ATTACH® Cable	Components Block	Qty
TS04R-AP10X-0W6	T-WS-4PX-37	1 x 4 narrow strip	4	4.0/1.8	platinum	10	L-SR-4DIN	L-DC-4DIN	DC-4X	(1)
TS06R-AP10X-0W6	T-WS-6PX-37	1 x 6 narrow strip	6	4.0/1.8	platinum	10	L-SR-6DIN	L-DC-6DIN	DC-6X	(1)
TS08R-AP10X-0W6	T-WS-8PX-37	1 x 8 narrow strip	8	4.0/1.8	platinum	10	L-SR-8DIN	L-DC-8DIN	DC-8X	(1)
TS10R-AP10X-0W6	T-WS-10PX-37	1 x 10 narrow strip	10	4.0/1.8	platinum	10	L-SR-10DIN	L-DC-10DIN	DC-10X	(1)
TS04R-AS10X-0W6	T-WS-4X-37	1 x 4 narrow strip	4	4.0/1.8	stainless	10	L-SR-4DIN	L-DC-4DIN	DC-4X	(1)
TS06R-AS10X-0W6	T-WS-6X-37	1 x 6 narrow strip	6	4.0/1.8	stainless	10	L-SR-6DIN	L-DC-6DIN	DC-6X	(1)
TS08R-AS10X-0W6	T-WS-8X-37	1 x 8 narrow strip	8	4.0/1.8	stainless	10	L-SR-8DIN	L-DC-8DIN	DC-8X	(1)
TS10R-AS10X-0W6	T-WS-10X-37	1 x 10 narrow strip	10	4.0/1.8	stainless	10	L-SR-10DIN	L-DC-10DIN	DC-10X	(1)

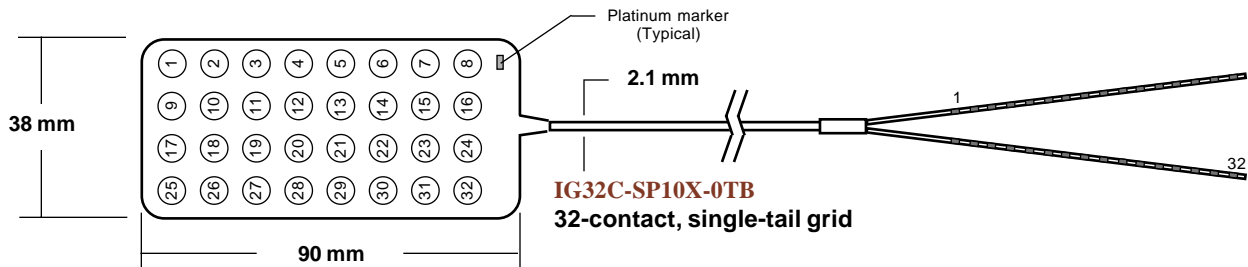
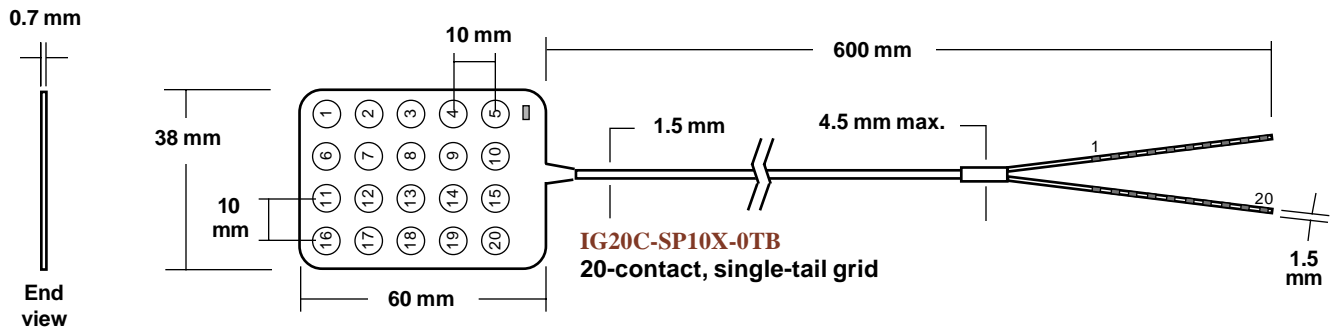
¹ Each electrode requires either the CABRIO cable or the TECH-ATTACH cable and the quantity of individual connector blocks as indicated.

² Contact size indicates the overall diameter of the contact followed by the diameter of the exposed surface (mm).

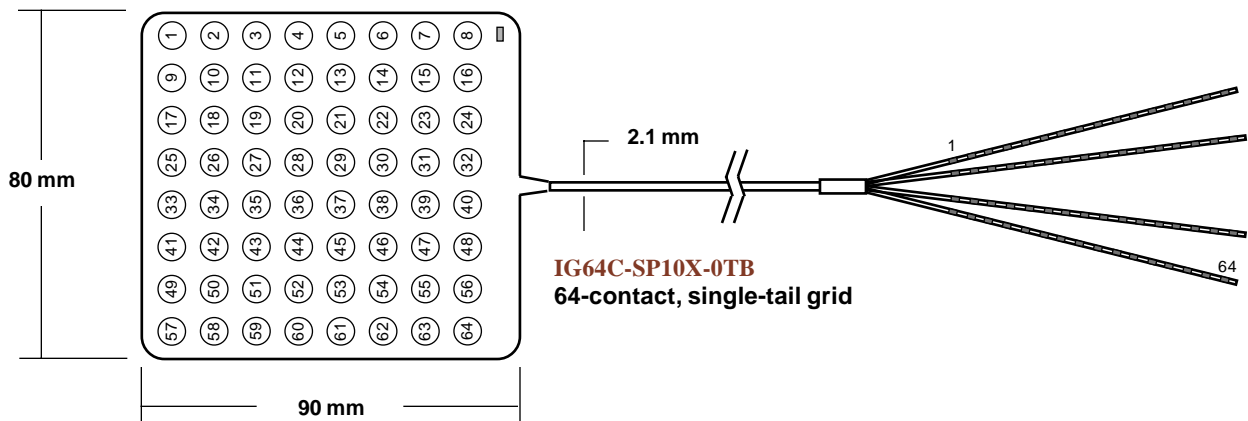
■ Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

AD-TECH® EPILEPSY/LTM SINGLE-TAIL SUBDURAL GRID ELECTRODES

- Single-tail construction
- All contacts are numbered
- Tails terminate in standard configurations (use TECH-ATTACH/CABRIO cables)
- Please contact your AD-TECH representative for alternative designs or other special requirements



Electrodes are shown with the exposed contact surfaces facing DOWN.



Catalog Number	Former Number	Description ¹	No. of Contacts	Contact Size ²	Contact Material	Contact Spacing	CABRIO® Cable	TECH-ATTACH® Components
								Cable Block Qty
IG20C-SP10X-0TB	CIE-LE-20PX-31	4 x 5 single-tail grid	20	4.0/2.3	platinum	10	L-SR-20DIN	L-DC-20DIN DC-10X (2)
IG32C-SP10X-0TB	CIE-LE-32BPX-31	4 x 8 single-tail grid	32	4.0/2.3	platinum	10	L-SR-32BDIN	L-DC-32BDIN DC-16X (2)
IG64C-SP10X-0TB	CIE-LE-64BPX-31	8 x 8 single-tail grid	64	4.0/2.3	platinum	10	L-SR-64BDIN	L-DC-64BDIN DC-16X (4)

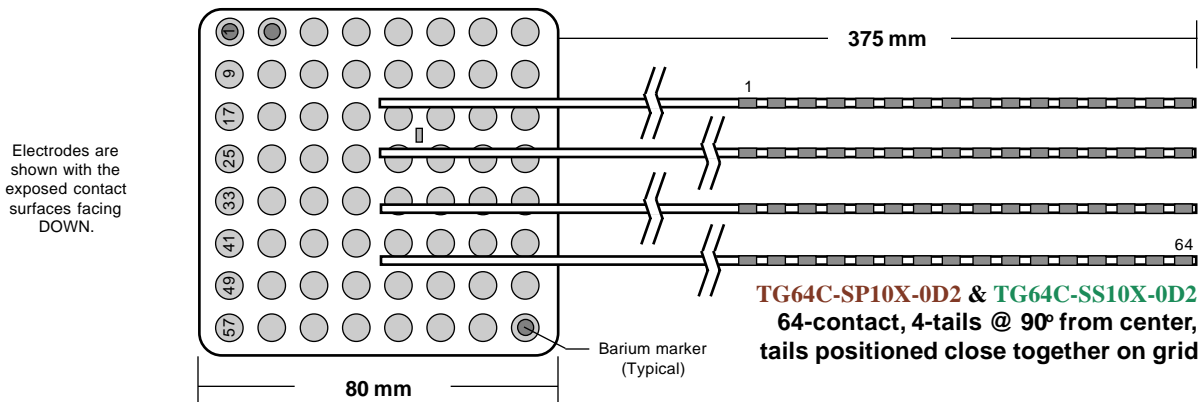
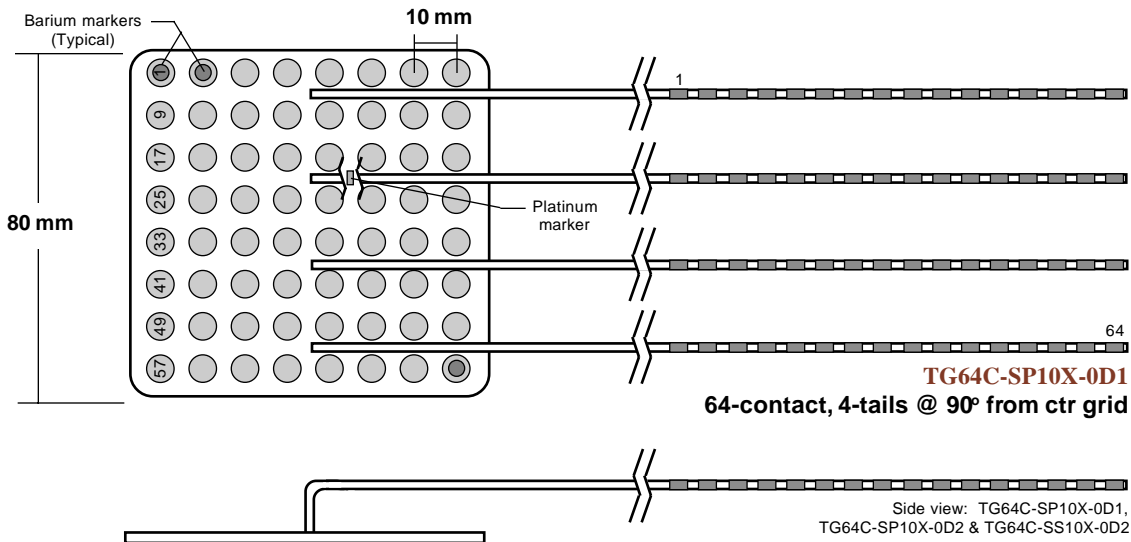
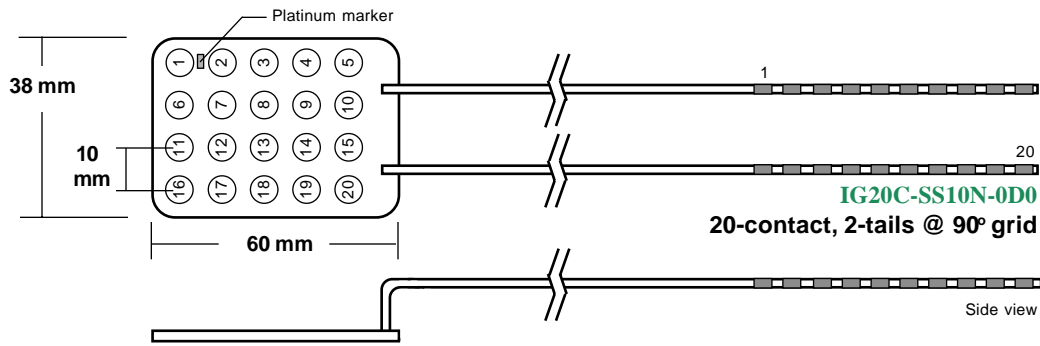
¹ Each electrode requires either the CABRIO cable or the TECH-ATTACH cable and the quantity of individual connector blocks as indicated.

² Contact size indicates the overall diameter of the contact followed by the diameter of the exposed surface (mm).

- Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

AD-TECH® EPILEPSY/LTM PERPENDICULAR-TAIL SUBDURAL GRID ELECTRODES

- Perpendicular tail design may allow for a smaller craniotomy
- Please contact your AD-TECH representative for alternative designs or other special requirements



Electrodes are shown with the exposed contact surfaces facing DOWN.

Catalog Number	Former Number	Description ¹	No. of Contacts	Contact Size ²	Contact Material	Contact Spacing	CABRIO® Cable	TECH-ATTACH® Components
								Cable Block Qty
TG64C-SP10X-0D1	CG-64BPX-1	8 x 8 4-tails, 90°-ctr grid	64	4.0/2.3	platinum	10	L-SR-64BDIN	L-DC-64BDIN DC-16X (4)
TG64C-SP10X-0D2	CG-64BPX-38	8 x 8 4-tails, 90°-ctr grid ³	64	4.0/2.3	platinum	10	L-SR-64BDIN	L-DC-64BDIN DC-16X (4)
IG20C-SS10N-0D0	CIE-20-10	4 x 5 2-tails, 90° grid	20	4.0/2.3	stainless	10	L-SR-20DIN	L-DC-20DIN DC-10X (2)
TG64C-SS10X-0D2	CG-64BX-38	8 x 8 4-tails, 90°-ctr grid ³	64	4.0/2.3	stainless	10	L-SR-64BDIN	L-DC-64BDIN DC-16X (4)

¹ Each electrode requires either the CABRIO cable or the TECH-ATTACH cable and the quantity of individual connector blocks as indicated.

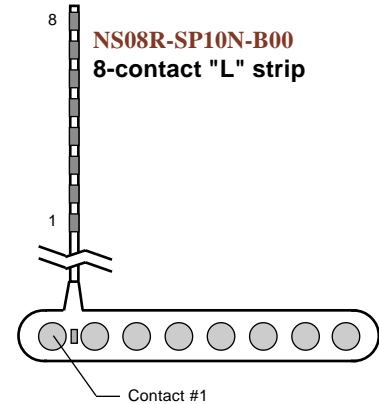
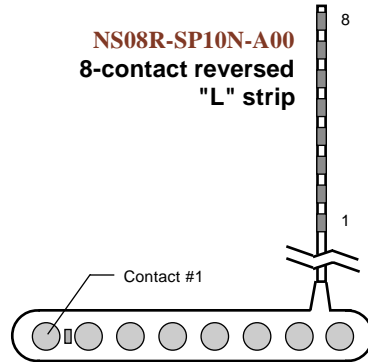
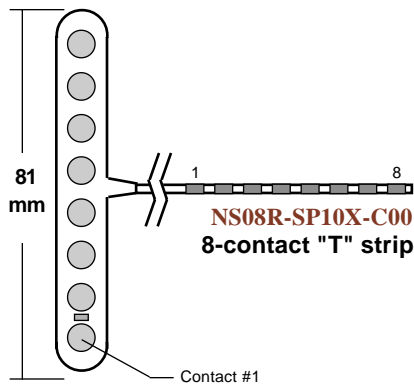
² Contact size indicates the overall diameter of the contact followed by the diameter of the exposed surface (mm).

³ The tails on this grid are positioned close to its center.

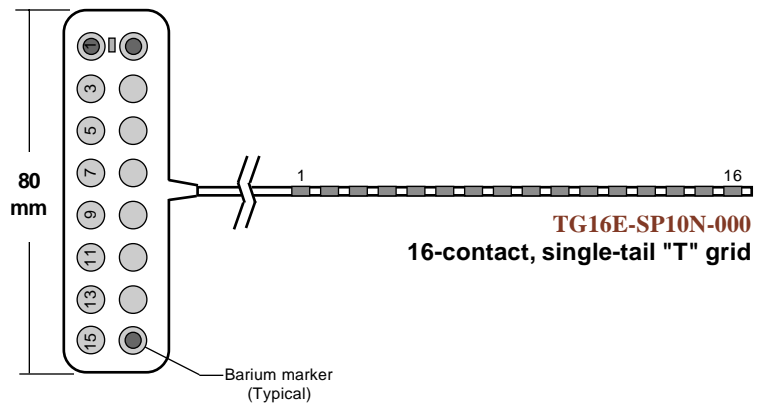
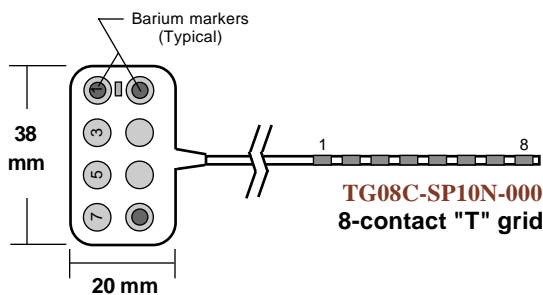
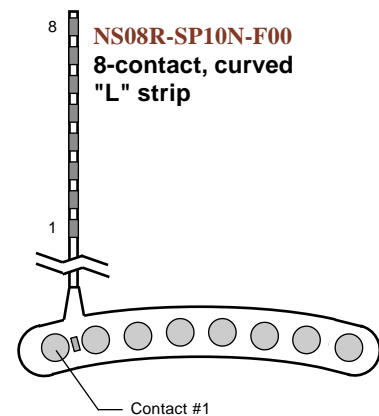
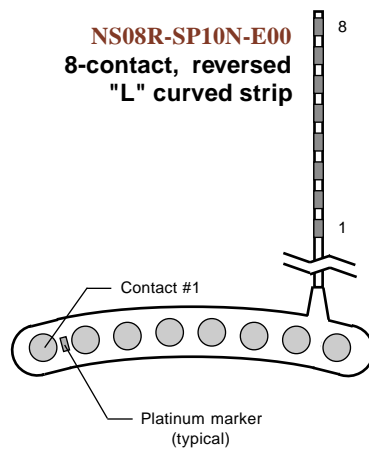
■ Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

AD-TECH® EPILEPSY/LTM "T" & "L" SHAPED SUBDURAL STRIP & GRID ELECTRODES

- "T" shaped strips & grids
- "L" & curved "L" shaped strips
- Please contact your AD-TECH representative for alternative designs or other special requirements
- Platinum contacts with platinum markers as shown
- Sterile and non-sterile; single-use only



Electrodes are shown with the exposed contact surfaces facing DOWN.



Catalog Number	Former Number	Description ¹	No. of Contacts	Contact Size ²	Contact Material	Contact Spacing	CABRIO® Cable		TECH-ATTACH® Components	
							Cable	Block	Qty	
NS08R-SP10X-C00	CS-8TPX	"T" strip (sterile)	8	4.0/2.3	platinum	10	L-SR-8DIN	L-DC-8DIN	DC-8X	(1)
NS08R-SP10N-A00	CEA-8P	Reversed "L" strip	8	4.0/2.3	platinum	10	L-SR-8DIN	L-DC-8DIN	DC-8X	(1)
NS08R-SP10N-B00	CEB-8P	"L" strip	8	4.0/2.3	platinum	10	L-SR-8DIN	L-DC-8DIN	DC-8X	(1)
NS08R-SP10N-E00	CEA-8CURP	Curved, reversed "L" strip	8	4.0/2.3	platinum	10	L-SR-8DIN	L-DC-8DIN	DC-8X	(1)
NS08R-SP10N-F00	CEB-8CURP	Curved "L" strip	8	4.0/2.3	platinum	10	L-SR-8DIN	L-DC-8DIN	DC-8X	(1)
TG08C-SP10N-000	CG-8TP	"T" grid	8	4.0/2.3	platinum	10	L-SR-8DIN	L-DC-8DIN	DC-8X	(1)
TG16E-SP10N-000	CG-16BTP	Single-tail "T" grid	16	4.0/2.3	platinum	10	L-SR-16BDIN	L-DC-16BDIN	DC-16X	(1)

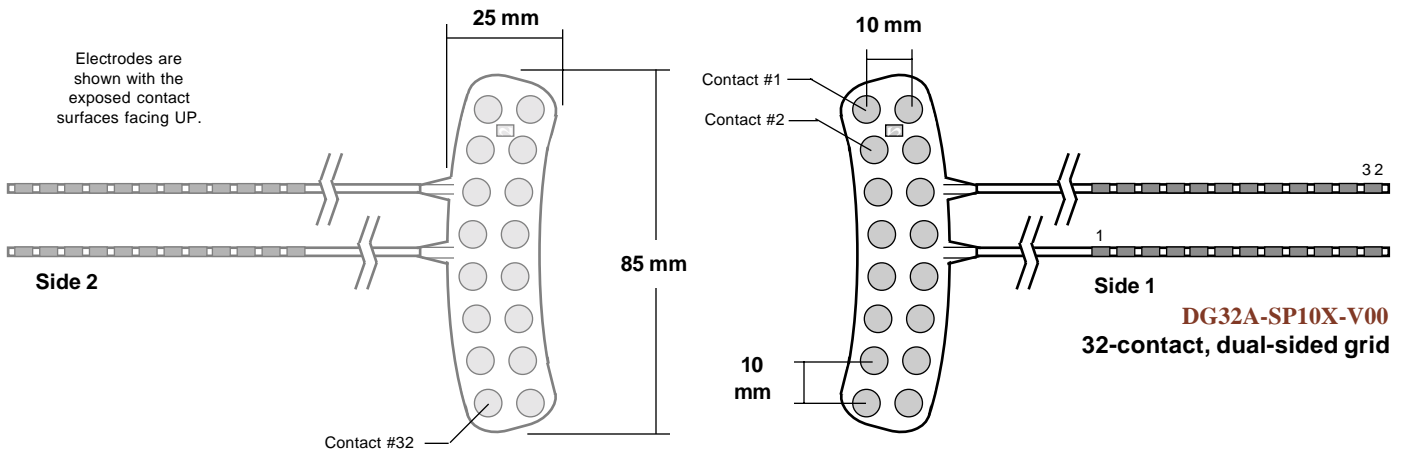
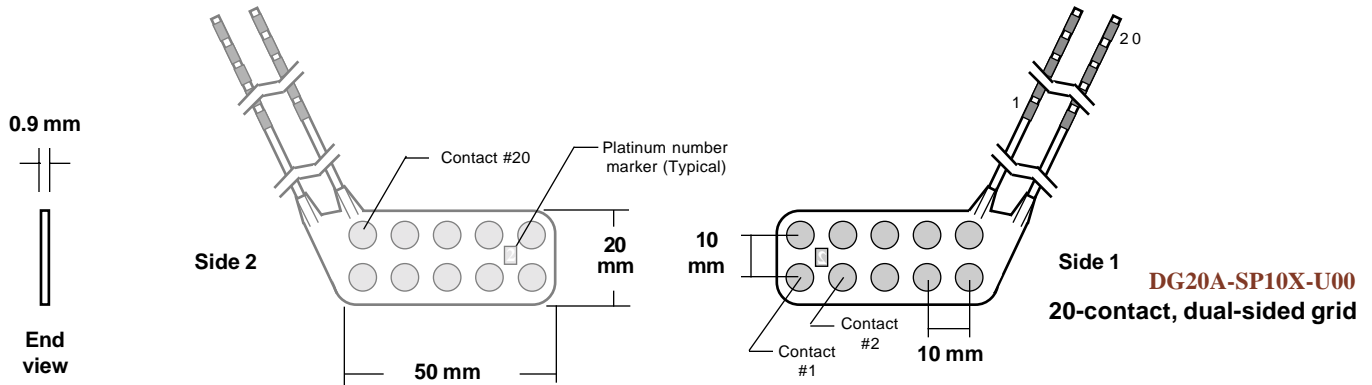
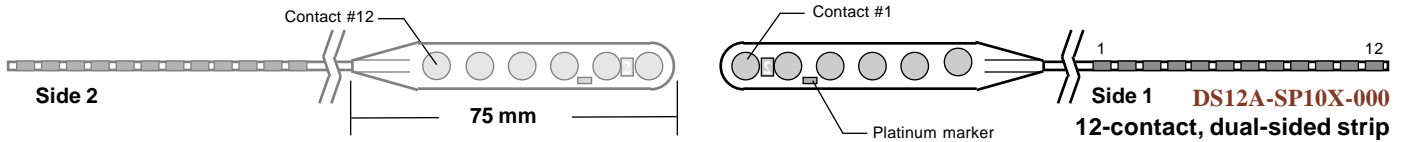
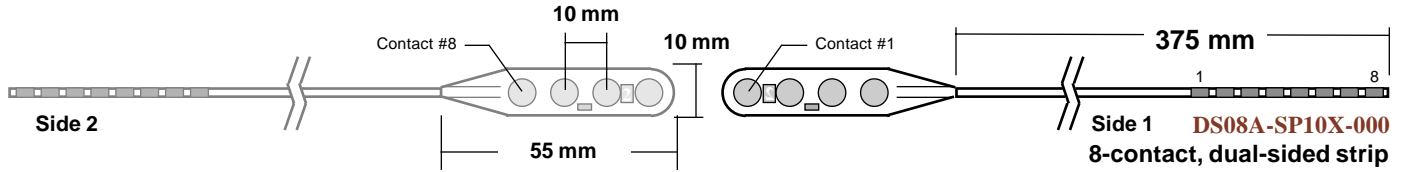
¹ Each electrode requires either the CABRIO cable or the TECH-ATTACH cable and the quantity of individual connector blocks as indicated.

² Contact size indicates the overall diameter of the contact followed by the diameter of the exposed surface (mm).

■ Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

AD-TECH® EPILEPSY/LTM DUAL-SIDED INTERHEMISPHERIC SUBDURAL ELECTRODES

- Contacts on both sides
- Available as strips or grids
- Please contact your AD-TECH representative for alternative designs or other special requirements
- Platinum & number markers as shown
- Sterile; single-use only



Catalog Number	Former Number	Description ¹	No. of Contacts	Contact Size ²	Contact Material	Contact Spacing	CABRIO® Cable	TECH-ATTACH® Cable	Components Block	Qty
DS08A-SP10X-000	CDS-8BPX	1 x 4 dual-sided strip	8	4.0/2.3	platinum	10	L-SR-8DIN	L-DC-8DIN	DC-8X	(1)
DS12A-SP10X-000	CDS-12BPX	1 x 6 dual-sided strip	12	4.0/2.3	platinum	10	L-SR-12BDIN	L-DC-12BDIN	DC-12X	(1)
DG20A-SP10X-U00	CDG-20PX	2 x 5 angled dual grid	20	4.0/2.3	platinum	10	L-SR-20DIN	L-DC-20DIN	DC-10X	(2)
DG32A-SP10X-V00	CDG-32BPX-71	2 x 8 curved dual grid	32	4.0/2.3	platinum	10	L-SR-32BDIN	L-DC-32BDIN	DC-16X	(2)

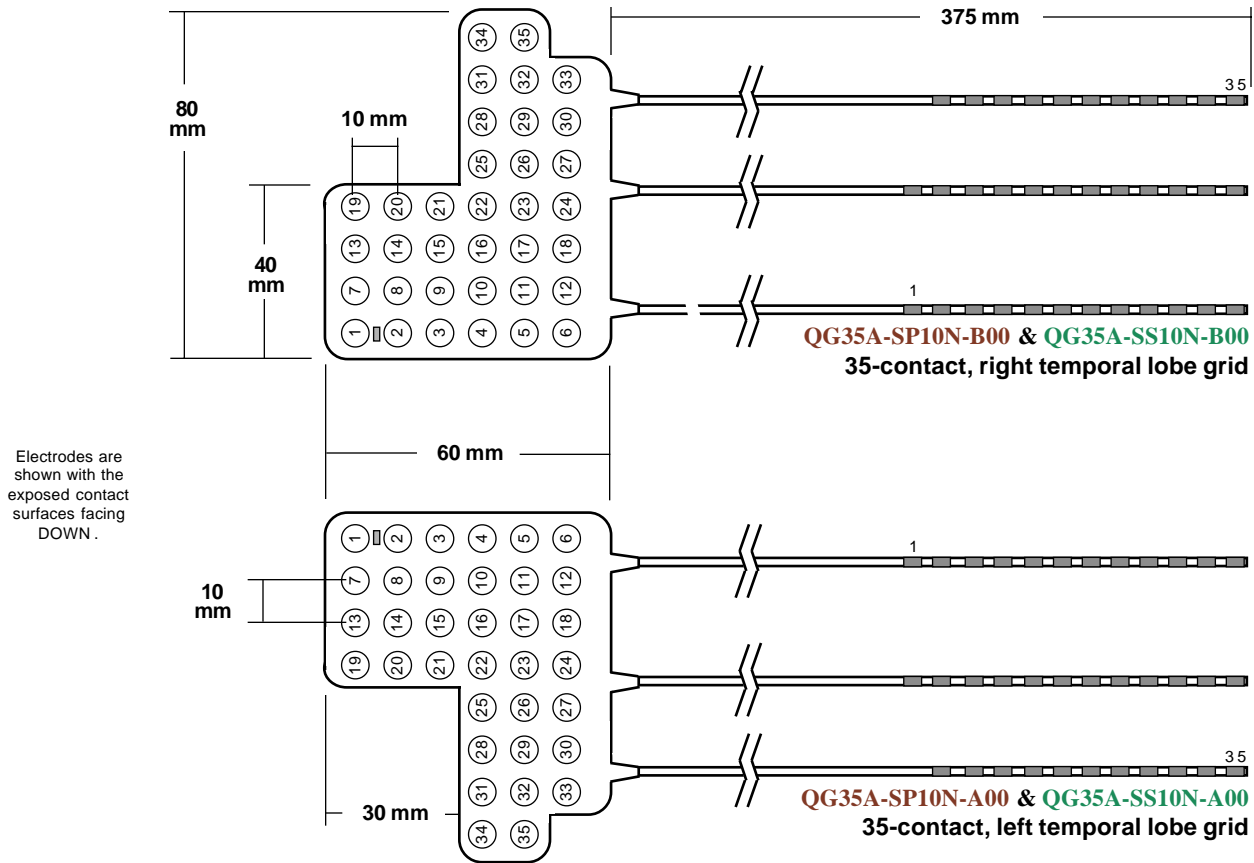
¹ Each electrode requires either the CABRIO cable or the TECH-ATTACH cable and the quantity of individual connector blocks as indicated.

² Contact size indicates the overall diameter of the contact followed by the diameter of the exposed surface (mm).

■ Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

AD-TECH® EPILEPSY/LTM TEMPORAL LOBE SUBDURAL GRID ELECTRODES

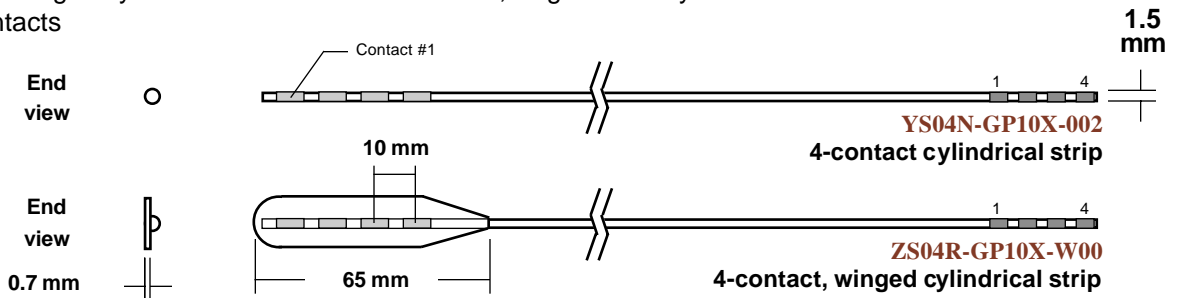
- Right and left lobe variants
- Platinum or stainless steel contacts
- All contacts are numbered
- Non-sterile, sterilize via autoclave; single-use only



Catalog Number	Former Number	Description ¹	Contact Size ²	Contact Material	Contact Spacing	CABRIO® Cable	TECH-ATTACH® Components		
							Cable	Block	Qty
QG35A-SP10N-B00	CIE-35RP	35-contact right lobe	4.0/2.3	platinum	10	L-SR-35DIN	L-DC-35DIN	DC-11X	(1)
QG35A-SP10N-A00	CIE-35LP	35-contact left lobe	4.0/2.3	platinum	10	L-SR-35DIN	L-DC-35DIN	DC-12X	(2)
QG35A-SS10N-B00	CIE-35R	35-contact right lobe	4.0/2.3	stainless	10	L-SR-35DIN	L-DC-35DIN	DC-11X	(1)
QG35A-SS10N-A00	CIE-35L	35-contact left lobe	4.0/2.3	stainless	10	L-SR-35DIN	L-DC-35DIN	DC-12X	(2)

AD-TECH® EPILEPSY/LTM CYLINDRICAL SUBDURAL STRIP ELECTRODES

- Cylindrical or winged cylindrical variants
- Sterile; single-use only
- Platinum contacts



Catalog Number	Former Number	Description ¹	Contact Size ²	Contact Material	Contact Spacing	CABRIO® Cable	TECH-ATTACH® Components		
							Cable	Block	Qty
YS04N-GP10X-002	CAD-CT-4PX-2	4-contact cylindrical strip	5.0/5.0	platinum	10	L-SR-4DIN	L-DC-4DIN	DC-4X	(1)
ZS04R-GP10X-W00	CSIE-4PX-20	4-contact winged cyl. strip	5.0/5.0	platinum	10	L-SR-4DIN	L-DC-4DIN	DC-4X	(1)

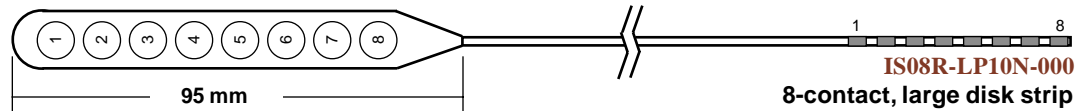
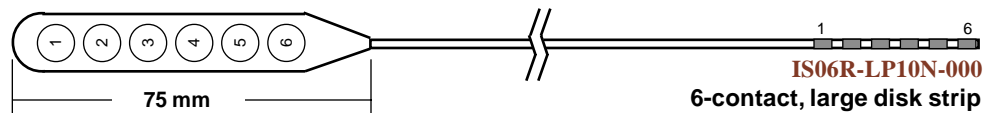
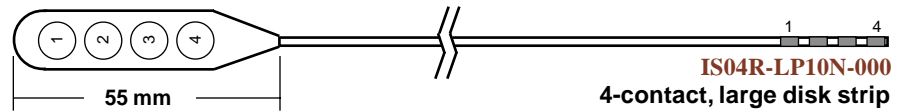
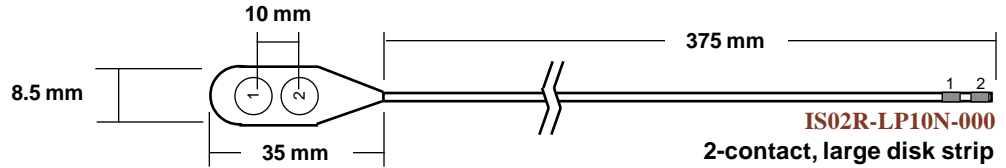
¹ Each electrode requires either the CABRIO cable or the TECH-ATTACH cable and the quantity of individual connector blocks as indicated.

² Contact size indicates the overall diameter of the contact followed by the diameter or length of the exposed surface (mm).

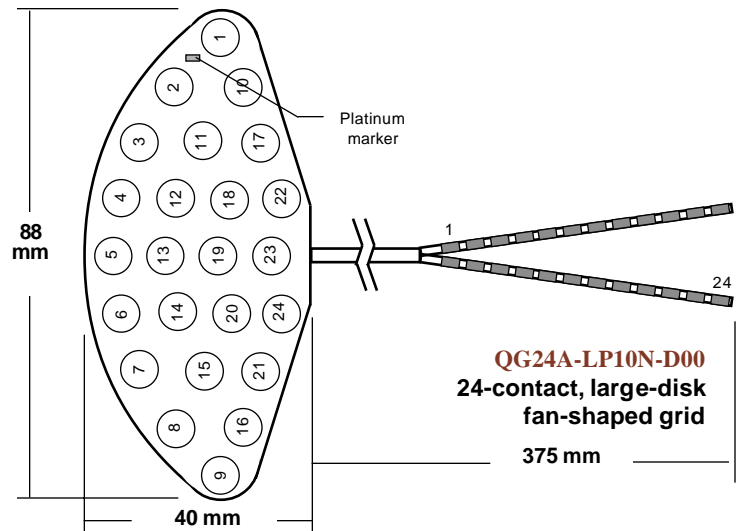
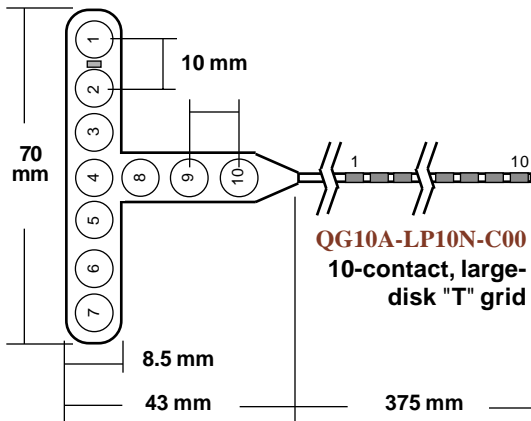
■ Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

AD-TECH® EPILEPSY/LTM LARGE CONTACT SUBDURAL STRIP & GRID ELECTRODES

- Large, 6 mm diameter contacts with 4 mm diameter exposed recording area
- Numbered, platinum contacts
- Non-sterile, sterilize via autoclave; single-use only
- Please contact your AD-TECH representative for alternative designs or other special requirements



Electrodes are shown with the exposed contact surfaces facing DOWN.



Catalog Number	Former Number	Description ¹	No. of Contacts	Contact Size ²	Contact Material	Contact Spacing	CABRIO® Cable	TECH-ATTACH® Cable	Components Block	Qty
IS02R-LP10N-000	CTLDIE-2P	1 x 2 large contact strip	2	6.0/4.0	platinum	10	L-SR-2DIN	L-DC-2DIN	DC-2X	(1)
IS04R-LP10N-000	CTLDIE-4P	1 x 4 large contact strip	4	6.0/4.0	platinum	10	L-SR-4DIN	L-DC-4DIN	DC-4X	(1)
IS06R-LP10N-000	CTLDIE-6P	1 x 6 large contact strip	6	6.0/4.0	platinum	10	L-SR-6DIN	L-DC-6DIN	DC-6X	(1)
IS08R-LP10N-000	CTLDIE-8P	1 x 8 large contact strip	8	6.0/4.0	platinum	10	L-SR-8DIN	L-DC-8DIN	DC-8X	(1)
QG10A-LP10N-C00	CTLDIE-10TP	Large contact "T" grid	10	6.0/4.0	platinum	10	L-SR-10DIN	L-DC-10DIN	DC-10X	(1)
QG24A-LP10N-D00	CTLDIE-24FP	Large contact "fan" grid	24	6.0/4.0	platinum	10	L-SR-24BDIN	L-DC-24BDIN	DC-12X	(2)

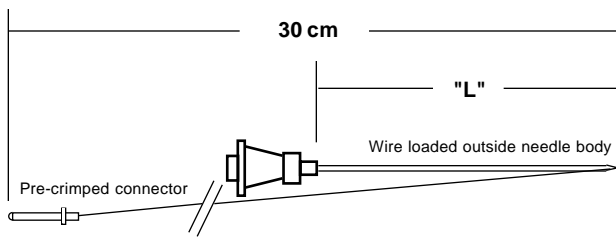
¹ Each electrode requires either the CABRIO cable or the TECH-ATTACH cable and the quantity of individual connector blocks as indicated.

² Contact size indicates the overall diameter of the contact followed by the diameter of the exposed surface (mm).

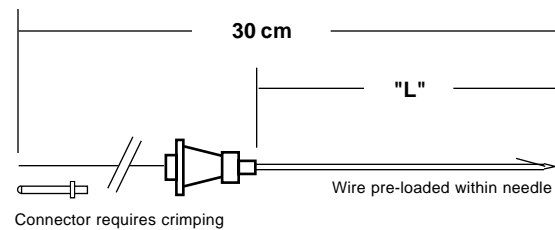
Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

AD-TECH® EPILEPSY/LTM SPHENOIDAL ELECTRODES

- For lateralizing/localizing the epileptic foci for the surgical treatment of epilepsy
- Supplied as *kits* (two electrodes, two introducing needles & two lead wires) or as *sets* (two electrodes & two introducing needles)
- Two styles available (wires loaded outside the needle with pre-crimped inter-connector pins, or wires loaded within the needle with non-crimped inter-connector pins)
- Two needle lengths available (2.0 inch & 2.75 inches long / 51 mm & 70 mm long)
- 36 gauge (0.15 mm) stainless steel or platinum wire, 30 cm in length; un-insulated 3-4 mm tip
- 21 gauge (0.83 mm) needle; other introducing needles available upon request
- Sterile; single-use only
- Please contact your AD-TECH representative for alternative designs or other special requirements

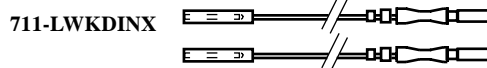


Pre-crimped inter-connector pins



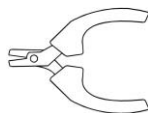
Non-crimped inter-connector pins

Catalog Number	Description ¹	Electrode Material	Inter-Connector Pin Style ²	Wire Location	Dimension ³ "L"
711-1DINX-01	Sphenoidal electrode kit	stainless steel	pre-crimped	outside needle	2.75 in (70 mm)
711-1DINX-05	Sphenoidal electrode kit	stainless steel	pre-crimped	outside needle	2.00 in (51 mm)
711-DINX-01	Sphenoidal electrode kit	stainless steel	non-crimped	within needle	2.75 in (70 mm)
711-DINX-05	Sphenoidal electrode kit	stainless steel	non-crimped	within needle	2.00 in (51 mm)
711-1PDINX-01	Sphenoidal electrode kit	platinum	pre-crimped	outside needle	2.75 in (70 mm)
711-1PDINX-05	Sphenoidal electrode kit	platinum	pre-crimped	outside needle	2.00 in (51 mm)
711-PDINX-01	Sphenoidal electrode kit	platinum	non-crimped	within needle	2.75 in (70 mm)
711-PDINX-05	Sphenoidal electrode kit	platinum	non-crimped	within needle	2.00 in (51 mm)
711-1AX-01	Sphenoidal electrode set	stainless steel	pre-crimped	outside needle	2.75 in (70 mm)
711-1AX-05	Sphenoidal electrode set	stainless steel	pre-crimped	outside needle	2.00 in (51 mm)
711-AX-01	Sphenoidal electrode set	stainless steel	non-crimped	within needle	2.75 in (70 mm)
711-AX-05	Sphenoidal electrode set	stainless steel	non-crimped	within needle	2.00 in (51 mm)
711-1APX-01	Sphenoidal electrode set	platinum	pre-crimped	outside needle	2.75 in (70 mm)
711-1APX-05	Sphenoidal electrode set	platinum	pre-crimped	outside needle	2.00 in (51 mm)



Lead wire set. Required on all sphenoidal electrode sets. 6 feet (1.8 m) long. One orange & one yellow wire. 1.5 mm safety sockets. Sterile; single-use only.

712



Crimping tool. Used with all sphenoidal electrode kits or sets and/or with all foramen ovale electrodes with *non-crimped connectors*.

¹ Each sphenoidal electrode *kit* includes: two sphenoidal electrodes, two 21 gauge (0.83 mm) introducing needles & two lead wires. Sterile; single-use only.
Each sphenoidal electrode *set* includes: two sphenoidal electrodes & two 21 gauge (0.83 mm) introducing needles. Each electrode *set* requires a 711-LWKDINX lead wire set. Sterile; single-use only.

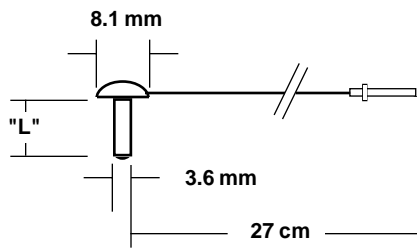
² All kits or sets with *non-crimped inter-connector pins* require the 712 crimping tool.

³ All needles are 21 gauge (0.83 mm) in diameter. All other dimensions are as stated.

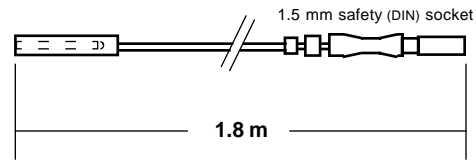
- Each Sphenoidal Electrode is shipped with detailed information as to the proper connection between the electrode and lead wire.
- Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

AD-TECH® EPILEPSY/LTM EPIDURAL PEG ELECTRODES

- For monitoring/mapping the epidural level of the brain for the surgical treatment of epilepsy, or for use as a reference
- Available in post lengths of 4 to 16 mm
- Titanium contact with a silicone body
- 3.8 mm body diameter
- Placed using a 3.6 mm twist drill
- Sterile; single-use only
- Please contact your AD-TECH representative for alternative designs or other special requirements


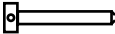




Epidural peg electrode



Epidural peg electrode lead wire (EEG interface cable)

Catalog Number	Description ¹	Contact Material	Dimension "L"
PE-4X	Epidural peg electrode	titanium	4 mm
PE-5X	Epidural peg electrode	titanium	5 mm
PE-6X	Epidural peg electrode	titanium	6 mm
PE-7X	Epidural peg electrode	titanium	7 mm
PE-8X	Epidural peg electrode	titanium	8 mm
PE-9X	Epidural peg electrode	titanium	9 mm
PE-10X	Epidural peg electrode	titanium	10 mm
PE-11X	Epidural peg electrode	titanium	11 mm
PE-12X	Epidural peg electrode	titanium	12 mm
PE-13X	Epidural peg electrode	titanium	13 mm
PE-14X	Epidural peg electrode	titanium	14 mm
PE-15X	Epidural peg electrode	titanium	15 mm
PE-16X	Epidural peg electrode	titanium	16 mm

Catalog Number	Description
LW-1DINX 	Electrode lead wire. 6 feet (1.8 m) long. White. 1.5 mm safety socket connector. Used with all epidural peg electrodes. Box of five. Sterile; single-use only.
CDSG-PEG 	Drill sleeve guide & stop. 55 mm long.
CD-PEG-3.6 	Bone drill. For epidural peg electrodes with 3.6 mm diameters.
CDSW 	Drill stop wrench.

¹ All epidural peg electrodes require a 3.6 mm twist drill for placement. Each requires the LW-1DINX lead wire. Sterile; single-use only.

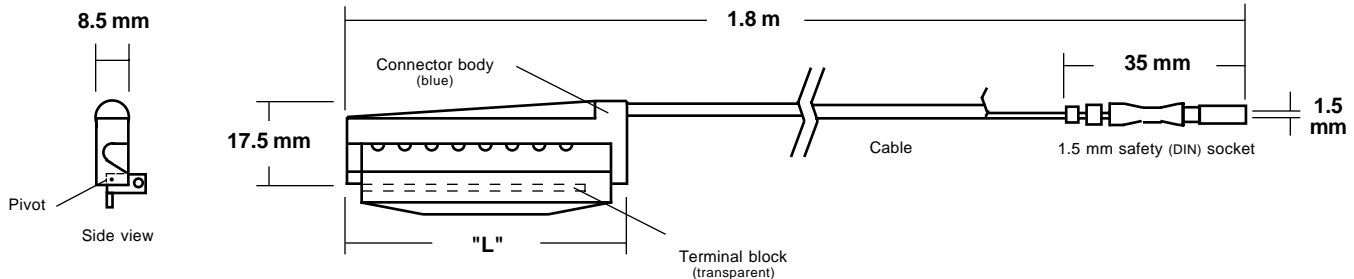
■ Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

AD-TECH® ELECTRODE CONNECTION SYSTEMS

- Available in two styles: one-piece *CABRIO* or two-piece TECH-ATTACH
- Transparent terminal blocks provide visual assurance of connections
- Please contact your AD-TECH representative for alternative designs or other special requirements
- Lightweight & reliable cable, 6 feet long (1.8 meters)
- Accommodates all standard Ad-Tech electrodes
- Number & color-coded flags
- Numbered connectors terminate in 1.5 mm safety sockets



- Terminal block pivots open to accept electrode tail & pivots shut to make the electrical connection
- Safe Release feature minimizes potential damage to the electrode tail in the event of a sudden tug



CABRIO Connection System

Catalog Number ¹	Description ¹	Terminal Configuration	Dimension "L"
L-SR-2DIN	2-contact CABRIO connector/cable	1 terminal of 2	34 mm
L-SR-3DIN	3-contact CABRIO connector/cable	1 terminal of 3	34 mm
L-SR-4DIN	4-contact CABRIO connector/cable	1 terminal of 4	34 mm
L-SR-5DIN	5-contact CABRIO connector/cable	1 terminal of 5	44 mm
L-SR-6DIN	6-contact CABRIO connector/cable	1 terminal of 6	44 mm
L-SR-7DIN	7-contact CABRIO connector/cable	1 terminal of 7	54 mm
L-SR-8DIN	8-contact CABRIO connector/cable	1 terminal of 8	54 mm
L-SR-10DIN	10-contact CABRIO connector/cable	1 terminal of 10	64 mm
L-SR-12BDIN	12-contact CABRIO connector/cable	1 terminal of 12	74 mm
L-SR-12DIN	12-contact CABRIO connector/cable	2 terminals of 6	44 mm
L-SR-16BDIN	16-contact CABRIO connector/cable	1 terminals of 16	94 mm
L-SR-16DIN	16-contact CABRIO connector/cable	2 terminals of 8	54 mm
L-SR-20DIN	20-contact CABRIO connector/cable	2 terminals of 10	64 mm
L-SR-24BDIN	24-contact CABRIO connector/cable	2 terminals of 12	74 mm
L-SR-24DIN	24-contact CABRIO connector/cable	3 terminals of 8	54 mm
L-SR-32BDIN	32-contact CABRIO connector/cable	2 terminals of 16	94 mm
L-SR-32DIN	32-contact CABRIO connector/cable	4 terminals of 8	54 mm
L-SR-35DIN	35-contact CABRIO connector/cable	2 terminals of 12 + 1 terminal of 11	74 mm
L-SR-48BDIN	48-contact CABRIO connector/cable	3 terminals of 16	94 mm
L-SR-48DIN	48-contact CABRIO connector/cable	6 terminals of 8	54 mm
L-SR-64BDIN	64-contact CABRIO connector/cable	4 terminals of 16	94 mm
L-SR-64DIN	64-contact CABRIO connector/cable	8 terminals of 8	54 mm

Equivalent TECH-ATTACH® Components		
Cable	Connector Block	Qty
L-DC-2DIN	DC-2X	(1)
L-DC-3DIN	DC-3X	(1)
L-DC-4DIN	DC-4X	(1)
L-DC-5DIN	DC-5X	(1)
L-DC-6DIN	DC-6X	(1)
L-DC-7DIN	DC-7X	(1)
L-DC-8DIN	DC-8X	(1)
L-DC-10DIN	DC-10X	(1)
L-DC-12BDIN	DC-12X	(1)
L-DC-12DIN	DC-6X	(2)
L-DC-16BDIN	DC-16X	(1)
L-DC-16DIN	DC-8X	(2)
L-DC-20DIN	DC-10X	(2)
L-DC-24BDIN	DC-12X	(2)
L-DC-24DIN	DC-8X	(3)
L-DC-32BDIN	DC-16X	(2)
L-DC-32DIN	DC-8X	(4)
L-DC-35DIN	DC-12X	(2)
L-DC-48BDIN	DC-11X	(1)
L-DC-48DIN	DC-16X	(3)
L-DC-64BDIN	DC-8X	(6)
L-DC-64DIN	DC-16X	(4)
L-DC-64DIN	DC-8X	(8)

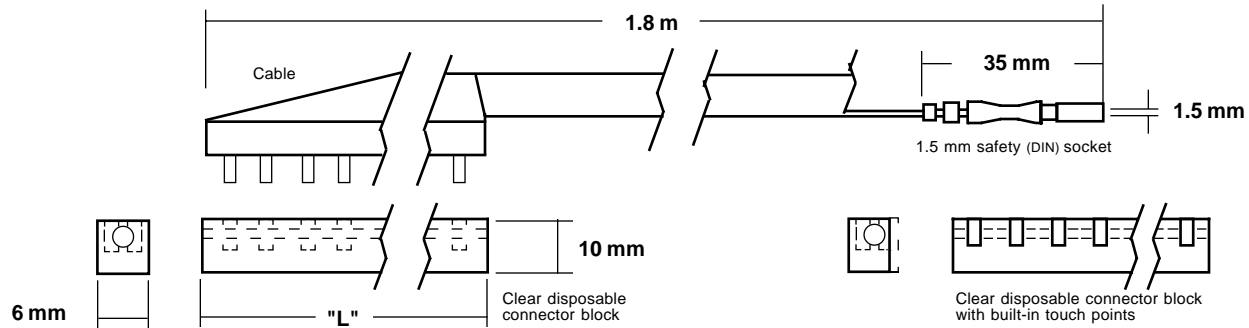
¹ CABRIO cables are supplied with 1.5 mm safety sockets. Where not prohibited by law, alternative termination options are available upon request. Non-sterile; sterilize via EtO (EO).

- Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.



Cables & Disposable Connector Blocks

- Easy-to-use connection system offers key pin feature and improved durability of 1.5 mm terminations
- Disposable connector blocks are sterile and packaged in boxes of 10 (sold separately)



TECH-ATTACH Cables

Catalog Number	Description ¹	Terminal Configuration	Dimension "L"	Connector Block	Qty of Individual Blocks Required	Equivalent CABRIO® Cable
L-DC-2DIN	2-contact cable	1 terminal of 2	17 mm	DC-2X	(1)	L-SR-2DIN
L-DC-3DIN	3-contact cable	1 terminal of 3	21 mm	DC-3X	(1)	L-SR-3DIN
L-DC-4DIN	4-contact cable	1 terminal of 4	26 mm	DC-4X	(1)	L-SR-4DIN
L-DC-5DIN	5-contact cable	1 terminal of 5	30 mm	DC-5X	(1)	L-SR-5DIN
L-DC-6DIN	6-contact cable	1 terminal of 6	36 mm	DC-6X	(1)	L-SR-6DIN
L-DC-7DIN	7-contact cable	1 terminal of 7	42 mm	DC-7X	(1)	L-SR-7DIN
L-DC-8DIN	8-contact cable	1 terminal of 8	46 mm	DC-8X	(1)	L-SR-8DIN
L-DC-10DIN	10-contact cable	1 terminal of 10	56 mm	DC-10X	(1)	L-SR-10DIN
L-DC-12BDIN	12-contact cable	1 terminal of 12	66 mm	DC-12X	(1)	L-SR-12BDIN
L-DC-12DIN	12-contact cable	2 terminals of 6	36 mm	DC-6X	(2)	L-SR-12DIN
L-DC-16BDIN	16-contact cable	1 terminal of 16	86 mm	DC-16X	(1)	L-SR-16BDIN
L-DC-16DIN	16-contact cable	2 terminals of 8	46 mm	DC-8X	(2)	L-SR-16DIN
L-DC-20DIN	20-contact cable	2 terminals of 10	56 mm	DC-10X	(2)	L-SR-20DIN
L-DC-24BDIN	24-contact cable	2 terminals of 12	66 mm	DC-12X	(2)	L-SR-24BDIN
L-DC-24DIN	24-contact cable	3 terminals of 8	46 mm	DC-8X	(3)	L-SR-24DIN
L-DC-32BDIN	32-contact cable	2 terminals of 16	86 mm	DC-16X	(2)	L-SR-32BDIN
L-DC-32DIN	32-contact cable	4 terminals of 8	46 mm	DC-8X	(4)	L-SR-32DIN
L-DC-35DIN	35-contact cable	2 terminals of 12/1 of 11	66 mm	DC-12X/11X	(2)/(1)	L-SR-35DIN
L-DC-48BDIN	48-contact cable	3 terminals of 16	86 mm	DC-16X	(3)	L-SR-48BDIN
L-DC-48DIN	48-contact cable	6 terminals of 8	46 mm	DC-8X	(6)	L-SR-48DIN
L-DC-64BDIN	64-contact cable	4 terminals of 16	86 mm	DC-16X	(4)	L-SR-64BDIN
L-DC-64DIN	64-contact cable	8 terminals of 8	46 mm	DC-8X	(8)	L-SR-64DIN

¹ TECH-ATTACH cables are supplied with 1.5 mm safety sockets. Where not prohibited by law, alternative termination options are available upon request. Non-sterile; sterilize via EtO (EO) or Sterrad.

Common TECH-ATTACH Disposable Connector Blocks (Box of 10) & TECH-ATTACH Disposable Connector Blocks with Built-in Stimulation Touch-Points (Box of 5 Sets)

Catalog Number ²	Description	Catalog Number ³	Description	Used with TECH-ATTACH Cable
DC-2X	2-contact block	DC-2X-STIM	2-contact block w/ touch-points	L-DC-2DIN
DC-3X	3-contact block	DC-3X-STIM	3-contact block w/ touch-points	L-DC-3DIN
DC-4X	4-contact block	DC-4X-STIM	4-contact block w/ touch-points	L-DC-4DIN
DC-5X	5-contact block	DC-5X-STIM	5-contact block w/ touch-points	L-DC-5DIN
DC-6X	6-contact block	DC-6X-STIM	6-contact block w/ touch-points	L-DC-6DIN & -12DIN
DC-7X	7-contact block	DC-7X-STIM	7-contact block w/ touch-points	L-DC-7DIN
DC-8X	8-contact block	DC-8X-STIM	8-contact block w/ touch-points	L-DC-8DIN, -16DIN, -32DIN, -48DIN & -64DIN
DC-10X	10-contact block	DC-10X-STIM	10-contact block w/ touch-points	L-DC-10DIN & -20DIN
DC-11X	11-contact block	DC-11X-STIM	11-contact block w/ touch-points	L-DC-35DIN
DC-12X	12-contact block	DC-12X-STIM	12-contact block w/ touch-points	L-DC-12BDIN, -24BDIN & -35DIN
DC-16X	16-contact block	DC-16X-STIM	16-contact block w/ touch-points	L-DC-16BDIN, -32BDIN, -48BDIN & -64BDIN

² All TECH-ATTACH connector blocks are packaged in sets of two with five sets per box. Sold by box of ten only. Sterile; single-use only.

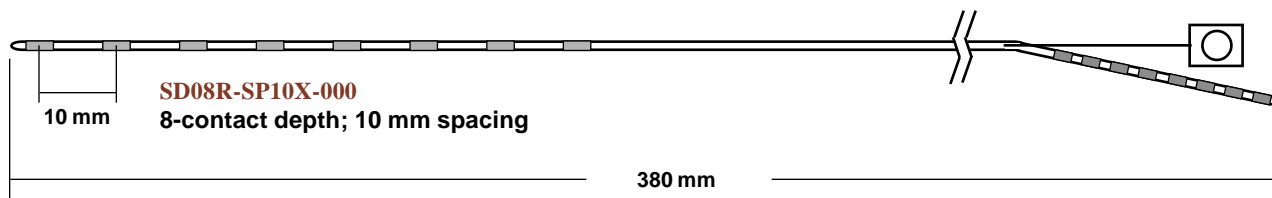
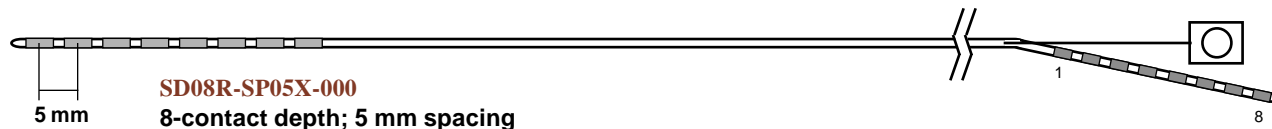
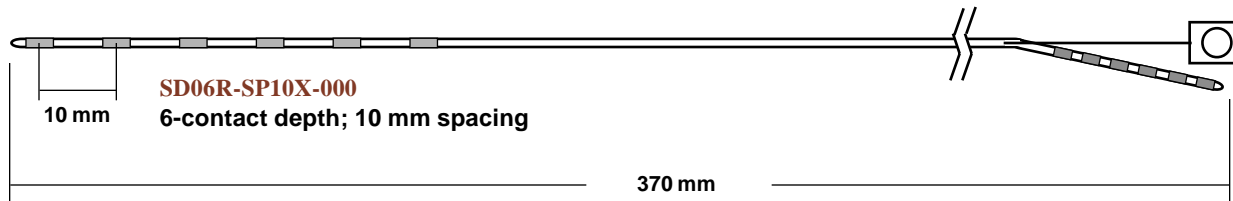
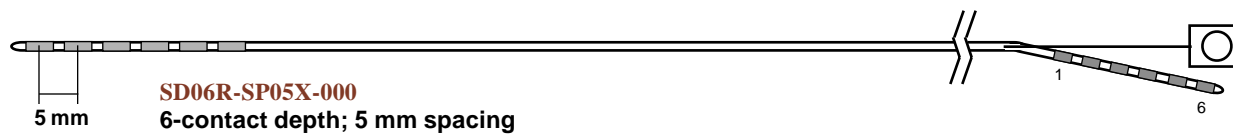
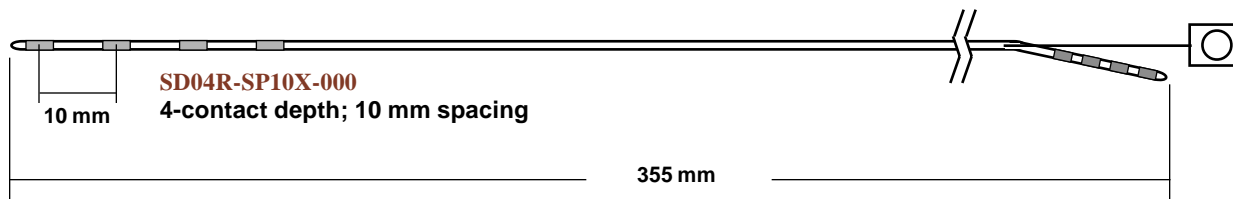
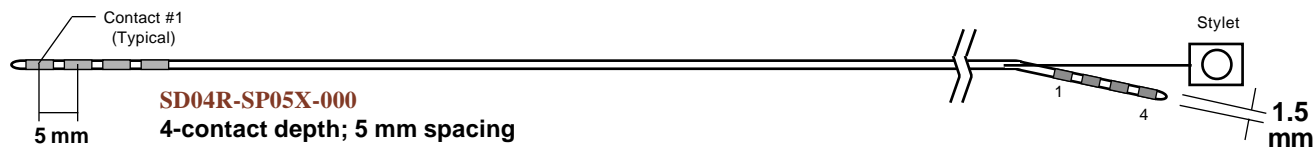
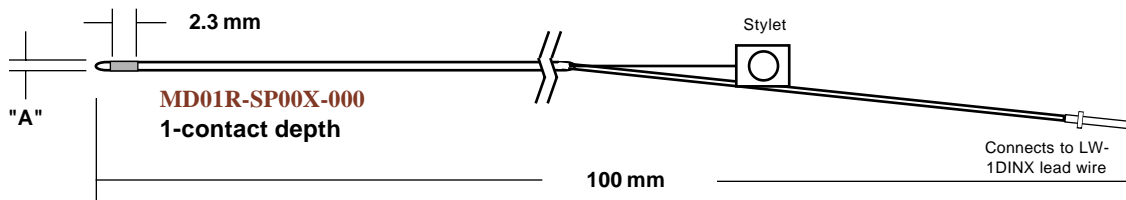
³ All TECH-ATTACH connector blocks with built-in stimulation touch-points are packaged in sets with two with *one* Stim-series block for intraoperative use and *one* standard block for long-term monitoring use. Five sets per box. Sold by box only. Sterile; single-use only.

- Quantity discounts are available on disposable connector blocks. Consult the current price sheet for details.
- Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.



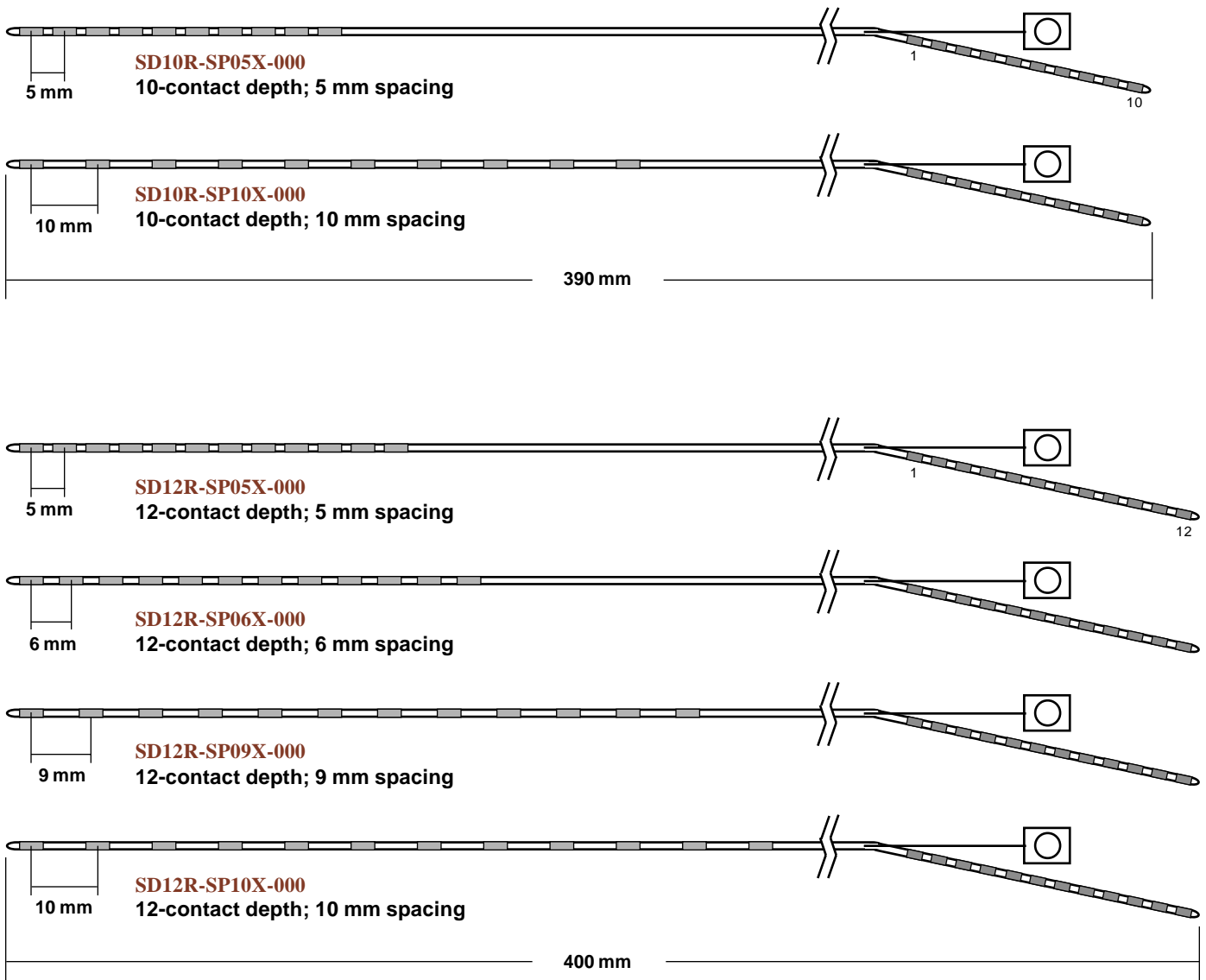
AD-TECH® EPILEPSY/LTM SPENCER® PROBE DEPTH ELECTRODES

- For monitoring/mapping subsurface levels of the brain for the surgical treatment of epilepsy
- One-piece body construction
- Platinum contacts
- Please contact your AD-TECH representative for alternative designs or other special requirements
- Numbered label and 19 cm marker
- Sterile; single-use only



AD-TECH® EPILEPSY/LTM SPENCER® PROBE DEPTH ELECTRODES

Continued from page 18



Catalog Number	Former Number	Description ¹	Contact Size ²	Contact Material	Body Diameter	Contact Spacing	CABRIO® Cable	TECH-ATTACH® Cable	Components Block	Qty
MD01R-SP00X-000	SD-1PX-25	1-contact depth	2.3/1.0	platinum	1.0	N/A	N/A	LW-1DINX [6 feet (1.8m) long]		
SD04R-SP05X-000	SD-4PX-5	4-contact depth	2.3/1.0	platinum	1.0	5	L-SR-4DIN	L-DC-4DIN	DC-4X	(1)
SD04R-SP10X-000	SD-4PX	4-contact depth	2.3/1.0	platinum	1.0	10	L-SR-4DIN	L-DC-4DIN	DC-4X	(1)
SD06R-SP05X-000	SD-6PX-5	6-contact depth	2.3/1.0	platinum	1.0	5	L-SR-6DIN	L-DC-6DIN	DC-6X	(1)
SD06R-SP10X-000	SD-6PX	6-contact depth	2.3/1.0	platinum	1.0	10	L-SR-6DIN	L-DC-6DIN	DC-6X	(1)
SD08R-SP05X-000	SD-8PX-5	8-contact depth	2.3/1.0	platinum	1.0	5	L-SR-8DIN	L-DC-8DIN	DC-8X	(1)
SD08R-SP10X-000	SD-8PX	8-contact depth	2.3/1.0	platinum	1.0	10	L-SR-8DIN	L-DC-8DIN	DC-8X	(1)
SD10R-SP05X-000	SD-10PX-5	10-contact depth	2.3/1.0	platinum	1.0	5	L-SR-10DIN	L-DC-10DIN	DC-10X	(1)
SD10R-SP10X-000	SD-10PX	10-contact depth	2.3/1.0	platinum	1.0	10	L-SR-10DIN	L-DC-10DIN	DC-10X	(1)
SD12R-SP05X-000	SD-12PX-5	12-contact depth	2.3/1.0	platinum	1.0	5	L-SR-12BDIN	L-DC-12BDIN	DC-12X	(1)
SD12R-SP06X-000	SD-12PX-11	12-contact depth	2.3/1.0	platinum	1.0	6	L-SR-12BDIN	L-DC-12BDIN	DC-12X	(1)
SD12R-SP09X-000	SD-12PX-20	12-contact depth	2.3/1.0	platinum	1.0	9	L-SR-12BDIN	L-DC-12BDIN	DC-12X	(1)
SD12R-SP10X-000	SD-12PX	12-contact depth	2.3/1.0	platinum	1.0	10	L-SR-12BDIN	L-DC-12BDIN	DC-12X	(1)

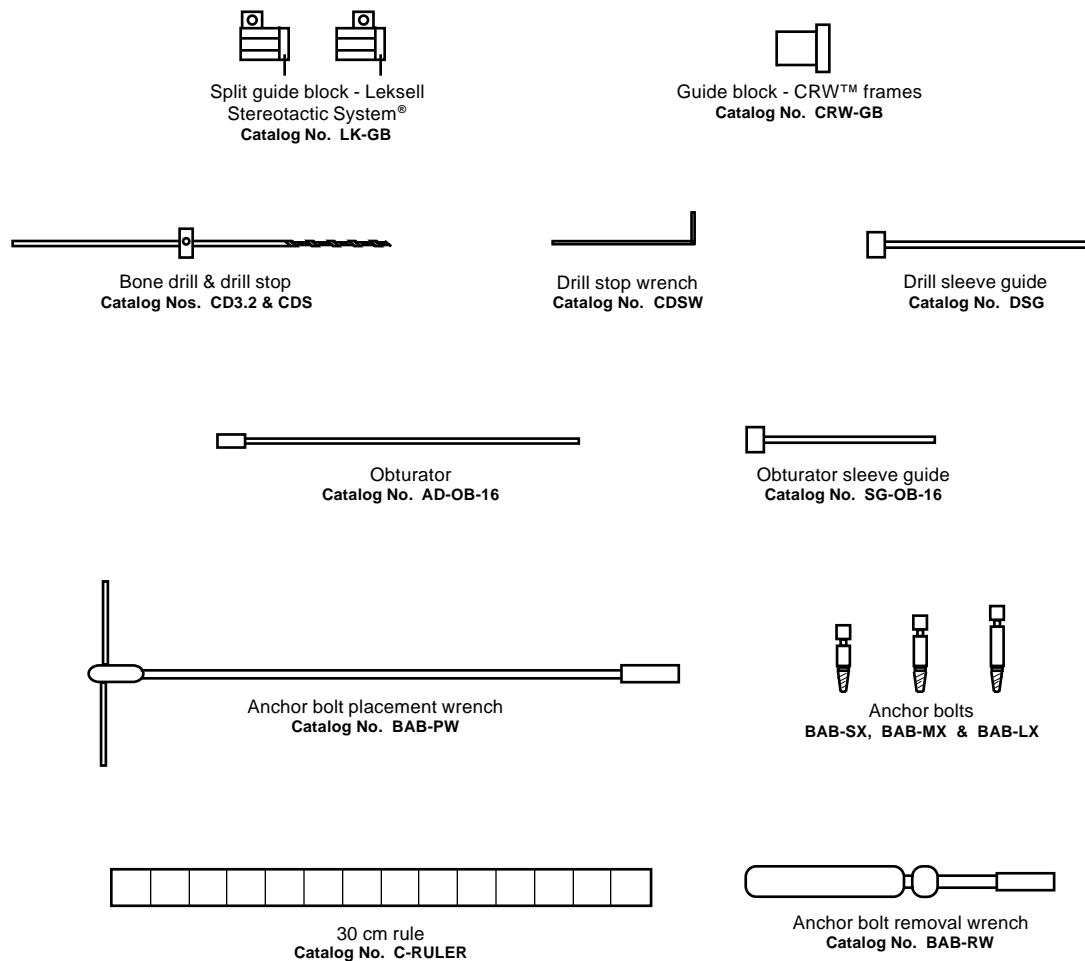
¹ Each electrode requires either the CABRIO cable or the TECH-ATTACH cable and the quantity of individual connector blocks as indicated.

² Contact size indicates the overall length of the contact followed by its diameter (mm).

Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

AD-TECH® DEPTH ELECTRODE PLACEMENT INSTRUMENTS

- For placement of depth electrodes with stereotactic or frameless systems
- Please contact your AD-TECH representative for alternative designs or other special requirements

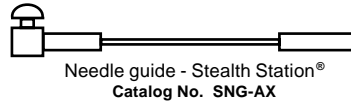
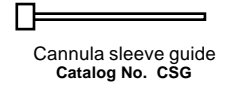
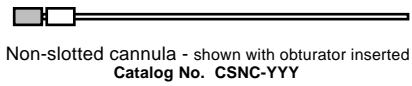
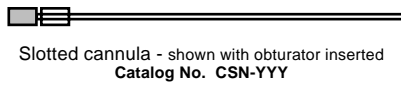


Catalog Number	Description
LK-GB	Guide block. Set of two. Used with Leksell Stereotactic System frames.
CRW-GB	Guide block. Used with CRW frames.
CD3.2	Bone drill. 3.2 mm diameter.
CDS	Drill stop.
CDSW	Drill stop wrench.
DSG	Drill sleeve guide. 9.0 cm long.
AD-OB-16	Obturator. 16 gauge.
SG-OB-16	Obturator sleeve guide.
BAB-PW	Anchor bolt placement wrench.
BAB-SX	Anchor bolt. 15 mm post. 7 mm thread length. Sterile; single-use only.
BAB-MX	Anchor bolt. 20 mm post. 7 mm thread length. Sterile; single-use only.
BAB-LX	Anchor bolt. 25 mm post. 7 mm thread length. Sterile; single-use only.
C-RULER	Ruler/scale. 30 cm long.
BAB-RW	Anchor bolt removal wrench.

- Leksell Stereotactic System® & CRW™ are trademarks of Elekta & Radionics respectively.
- Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

AD-TECH® DEPTH ELECTRODE CANNULAS & PLACEMENT GUIDES

- For placement of depth electrodes with stereotactic or frameless systems
- Please contact your AD-TECH representative for alternative designs or other special requirements



Catalog Number

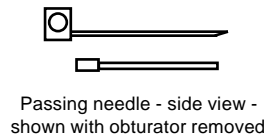
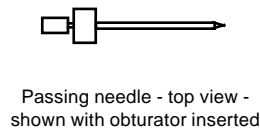
Description

CSN-YYY	Two-piece slotted cannula. YYY = length from 60 - 280 mm. Specify length when ordering. Typical length = 240 mm.
CSNC-YYY	Two-piece non-slotted slotted cannula. YYY = length from 60 - 280 mm. Specify length when ordering. Typical length = 240 mm.
CSG	Cannula sleeve guide. 9.0 cm long.
SNG-AX	Needle guide. Used with the Stealth Station's DT guide tube. Sterile; single-use only. 13 gauge (2.4 mm). Sterile; single-use only.

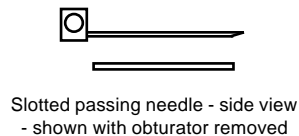
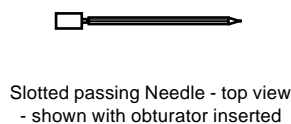
- Stealth Station® is a trademark of Sofamor-Danek.

AD-TECH® PASSING NEEDLES

- For tunneling the electrode wire carriers or "tails" away from the surgical site
- Please contact your AD-TECH representative for alternative designs or other special requirements



Catalog Nos. CAPN-1X & CAPN-2X



Catalog No. CSPN-2X

Catalog Number

Description

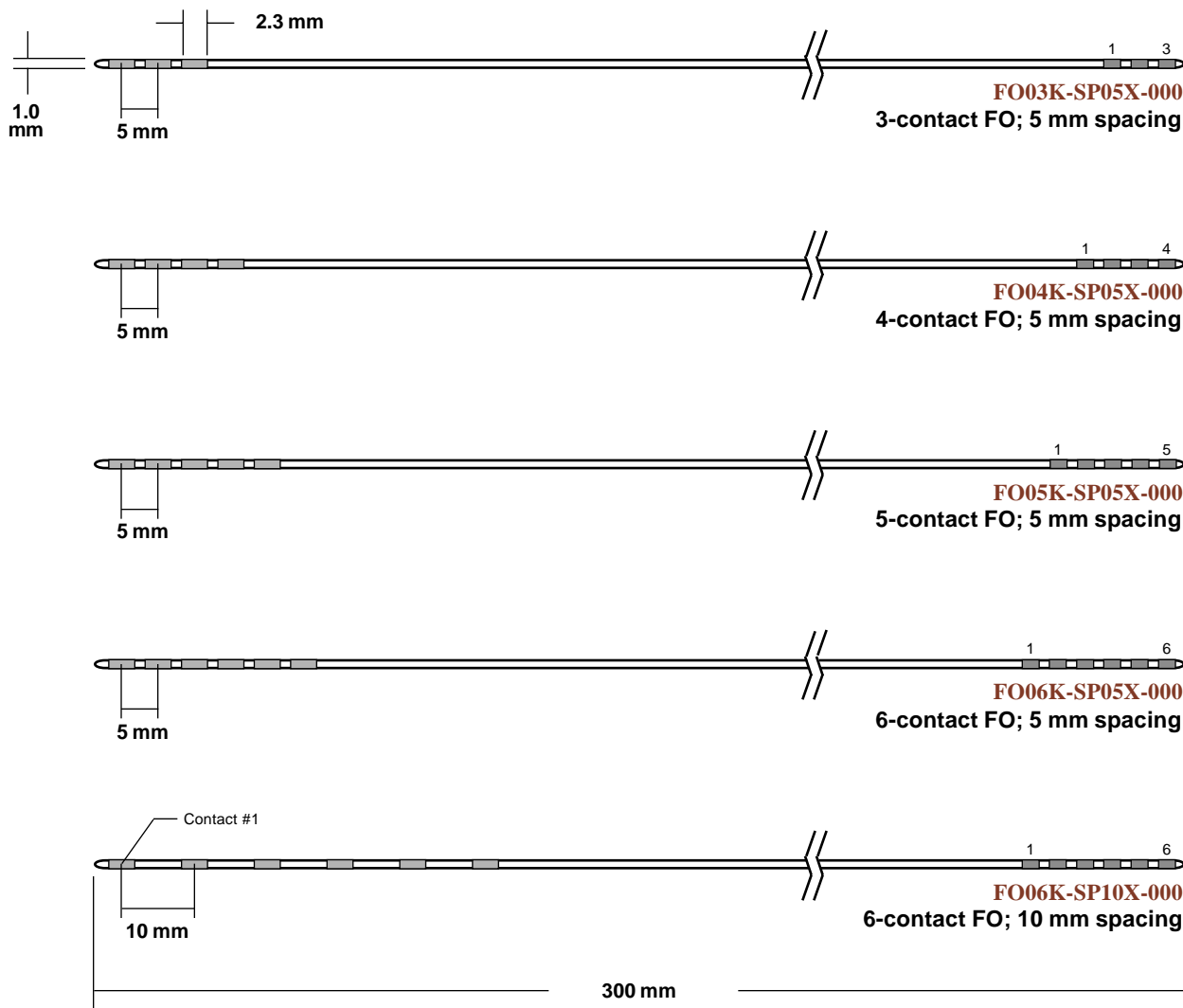
CAPN-1X	3 inch (7.6 cm) long passing needle. 13 gauge (2.4 mm). Sterile; single-use only.
CAPN-2X	3.5 inch (8.9 cm) long passing needle. 13 gauge (2.4 mm). Sterile; single-use only.
CSPN-2X	3.5 inch (8.9 cm) long, slotted passing needle. 13 gauge (2.4 mm). Sterile; single-use only.

- Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.



AD-TECH® EPILEPSY/LTM FORAMEN OVALE ELECTRODES

- For lateralizing/localizing the epileptic foci for the surgical treatment of epilepsy
- One-piece body construction
- Platinum contacts
- 1.0 mm body diameters
- Please contact your AD-TECH representative for alternative designs or other special requirements
- Includes two 17 gauge needles for placement
- Uses FO-style TECH-ATTACH connection systems
- Sterile; single-use only



Catalog Number	Former Number	Description ¹	Contact Size ²	Contact Material	Contact Spacing	Introducer Size	TECH-ATTACH® Components
							Cable Block
FO03K-SP05X-000	CAD-FO-3BPKX	3-contact FO set	2.3/1.0	platinum	5	17 gauge	FO-LDC-3DIN included
FO04K-SP05X-000	CAD-FO-4BPKX	4-contact FO set	2.3/1.0	platinum	5	17 gauge	FO-LDC-4DIN included
FO05K-SP05X-000	CAD-FO-5BPKX	5-contact FO set	2.3/1.0	platinum	5	17 gauge	FO-LDC-5DIN included
FO06K-SP05X-000	CAD-FO-6BPKX	6-contact FO set	2.3/1.0	platinum	5	17 gauge	FO-LDC-6DIN included
FO06K-SP10X-000	CAD-FO-6BPKX-4	6-contact FO set	2.3/1.0	platinum	10	17 gauge	FO-LDC-6DIN included

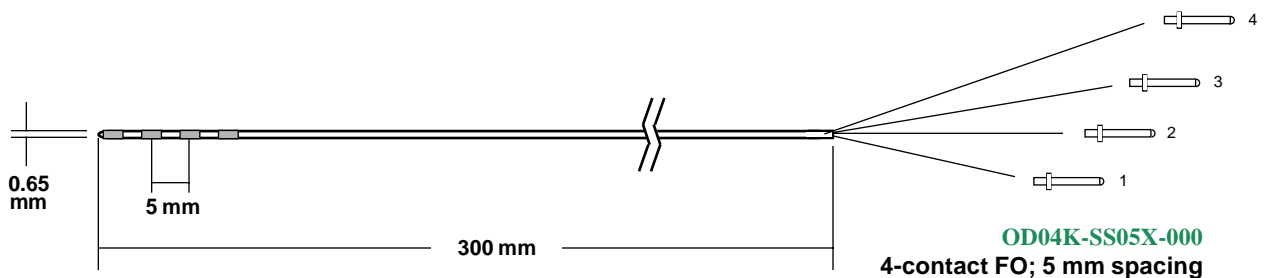
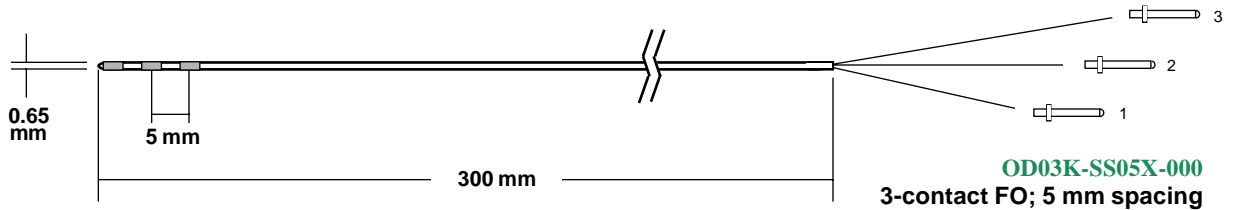
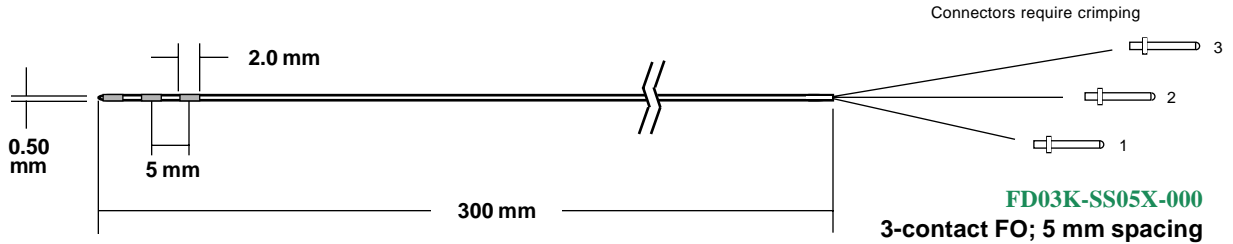
¹ Each FO-series electrode set includes: two foramen ovale electrodes, two 17 gauge introducing needles & two TECH-ATTACH Connector Blocks. Each FO-series electrode set requires the cable indicated. Sterile; single use only.

² Contact size indicates the overall length of the contact followed by its diameter (mm).

■ Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

AD-TECH® EPILEPSY/LTM FORAMEN OVALE ELECTRODES

- Stainless steel contacts
- 0.5 & 0.65 mm body diameters
- Please contact your AD-TECH representative for alternative designs or other special requirements
- Requires crimping of pins to electrode wire after placement
- Sterile; single-use only



Catalog Number	Former Number	Description ¹	Contact Size ²	Contact Material	Contact Spacing	Introducer Size
FD03K-SS05X-000	CAD-FO-3KX	3-contact FD set	2.0/0.50	stainless	5	18 & 19 gauge
OD03K-SS05X-000	CAD-FO-3LKX	3-contact OD set	2.0/0.65	stainless	5	18 gauge
OD04K-SS05X-000	CAD-FO-4KX	4-contact OD set	2.0/0.65	stainless	5	18 gauge

Connectors	
Cable	Crimper
L-3-FODIN	712
L-3-FODIN	712
L-4-FODIN	712

712 Crimping tool. Used with all sphenoidal electrode kit or sets and/or with all foramen ovale electrodes with *non-crimped connectors*.

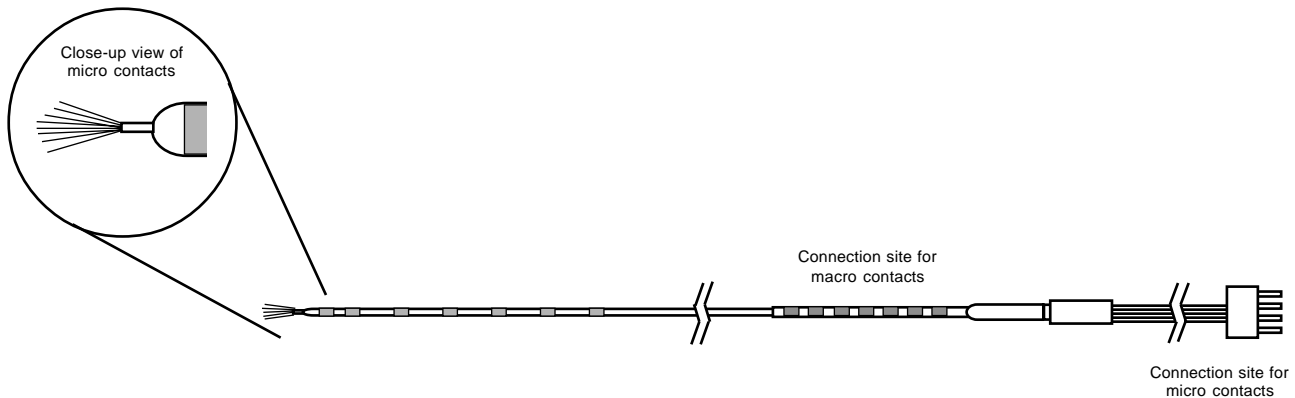
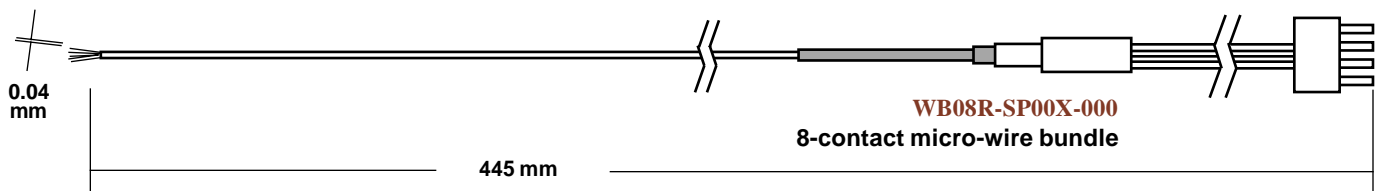
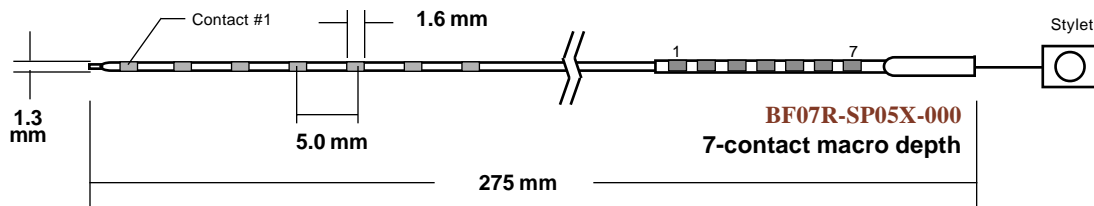
¹ Each FD-series electrode set includes: two foramen ovale electrodes, eight pin connectors and four introducing needles. Each OD-series electrode set includes: two foramen ovale electrodes, eight pin connectors and two introducing needles. Each FD- & OD-series foramen ovale electrode set requires the cable and crimper indicated. Sterile; single use only.

² Contact size indicates the overall length of the contact followed by its diameter.

■ Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

AD-TECH® EPILEPSY/LTM MACRO-MICRO DEPTH ELECTRODES

- For simultaneous recording of macro and micro EEGs
- 7-contact macro recording outer body with 8-contact micro recording inner wire bundle that exit distally
- Please contact your AD-TECH representative for alternative designs or other special requirements



Macro-Micro Electrode Shown Assembled

Catalog Number	Former Number	Description ¹	Contact Size ²	Contact Material	Contact Spacing	TECH-ATTACH® Components
BF07R-SP05X-000	BF-7PX	7-contact macro-depth	1.6/1.3	platinum	5.0	Cable: L-DC-7DIN Block: included
WB08R-SP00X-000	CWB-8PX	8-contact micro-depth	0.04 dia.	platinum	N/A	Block: CLW-8DIN-26

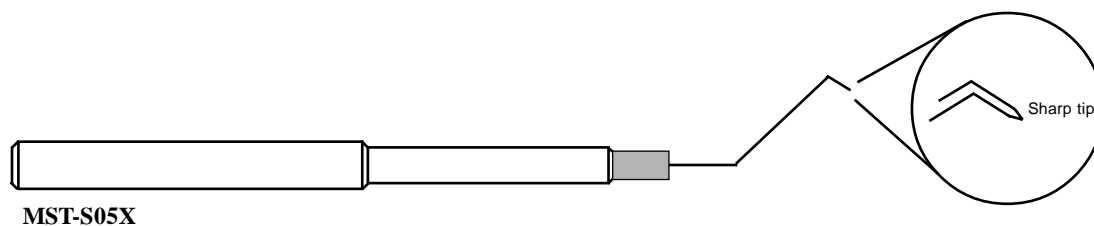
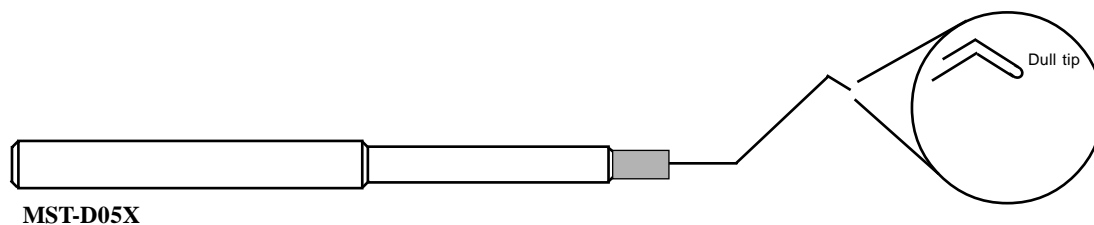
¹ To ensure proper function, the macro and micro electrodes shown on this page *must* be used together. In addition, each electrode requires the TECH-ATTACH or wire bundle cable as indicated.

² Contact size indicates the overall length of the contact followed by its diameter (mm).

- Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

AD-TECH® SUBPIAL TRANSECTOR

- For performing subpial transections
- Lightweight & disposable
- Two different 0.55 mm diameter tip styles (dull & sharp)
- Sterile; single-use only



Catalog Number

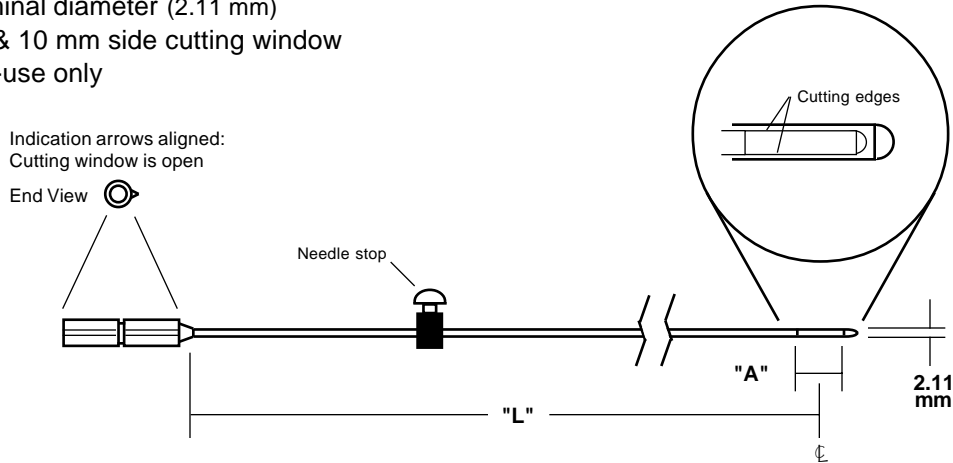
Description¹

MST-D05X	MST handle with pre-attached dull tip. Box of five individually sterilized units.
MST-S05X	MST handle with pre-attached sharp tip. Box of five individually sterilized units.

¹ All tips have a wire diameter of 0.55 mm. The bent distal portion of all tips is approximately 5 mm long. Sterile; single-use only.

AD-TECH® DISPOSABLE BRAIN BIOPSY NEEDLES

- For stereotactic guided procedures
- High quality & low cost
- Inner and outer cannula have polished, rounded closed ends
- Available in standard lengths: 10 cm, 15 cm, 19 cm & 24 cm (custom lengths available)
- Available in MRI-compatible materials
- Also available in stainless steel with 1 cm markings
- Supplied as complete kits (needle, needle stop & aspirator tube with Luer lock; 10 cm models also include a barium sleeve)
- 14 gauge nominal diameter (2.11 mm)
- Nominal 5, 8 & 10 mm side cutting window
- Sterile; single-use only



Catalog Number "A" = 5 mm	*Most Common* Catalog Number "A" = 8 mm	Catalog Number "A" = 10 mm	Description ¹	Material	Dimension ² "L"
DBN-05-10X	DBN-08-10X	DBN-10-10X	Disposable biopsy needle kit	stainless steel	10 cm
DBN-05-19X	DBN-08-19X	DBN-10-19X	Disposable biopsy needle kit	stainless steel	19 cm
DBN-05-24X	DBN-08-24X	DBN-10-24X	Disposable biopsy needle kit	stainless steel	24 cm
MDBN-05-10X	MDBN-08-10X	MDBN-10-10X	Disposable biopsy needle kit	MRI-compatible	10 cm
MDBN-05-15X	MDBN-08-15X	MDBN-10-15X	Disposable biopsy needle kit	MRI-compatible	15 cm
MDBN-05-19X	MDBN-08-19X	MDBN-10-19X	Disposable biopsy needle kit	MRI-compatible	19 cm
MDBN-05-24X	MDBN-08-24X	MDBN-10-24X	Disposable biopsy needle kit	MRI-compatible	24 cm

¹ Each disposable biopsy needle kit includes: one biopsy needle, one needle stop and one aspirator tube with Luer lock fitting. 10 cm long models also include one barium sleeve. Sterile; single-use only.

² All standard needles are 14 gauge (2.11 mm) in diameter; other diameters are available upon request. All other dimensions are as stated.

AD-TECH® BRAIN BIOPSY GUIDES

- For guiding brain biopsy needles using stereotactic or frameless systems
- High quality & low cost

Catalog Number

Description

11980



DAPII brain biopsy needle guide housing. **MRI-compatible.** Requires a guide sphere assembly (see below). Screw mount. Placed through a standard 1.0 - 1.5 cm burr hole. Non-sterile; sterilize via autoclave.

11980-01X



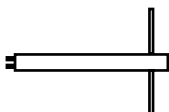
Guide sphere assembly with a white collar. **MRI-compatible.** Used with biopsy needles *with* barium sleeves. Sterile; single-use only.

11980-02X

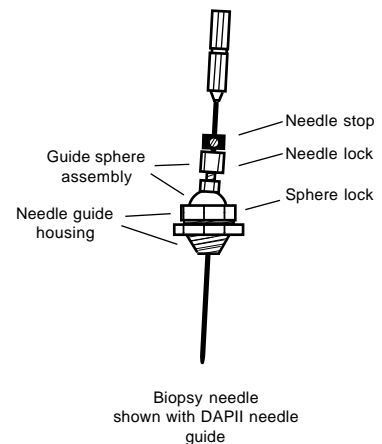


Guide sphere assembly with a black collar. **MRI-compatible.** Used with biopsy needles *without* barium sleeves. Sterile; single-use only.

11980-PW



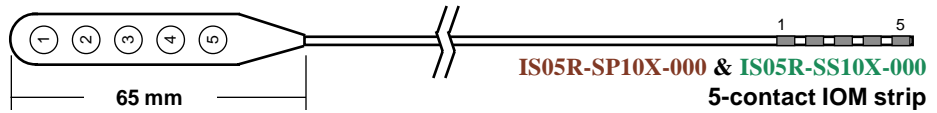
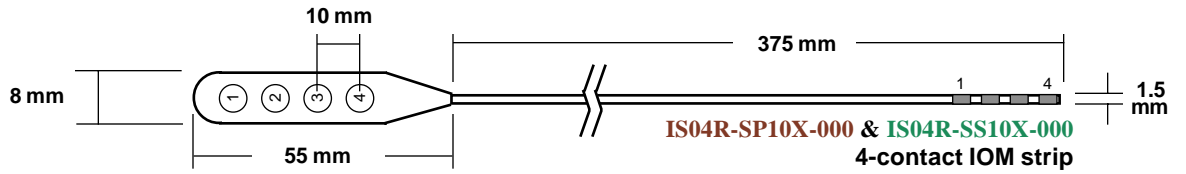
Placement wrench. Used to insert or remove the DAPII needle guide. Non-sterile; sterilize via autoclave.



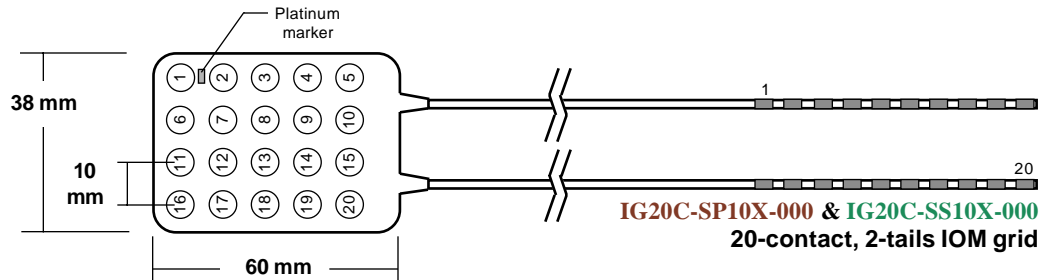
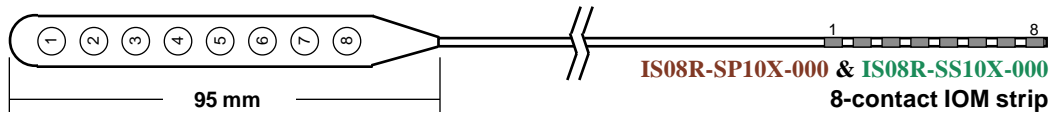
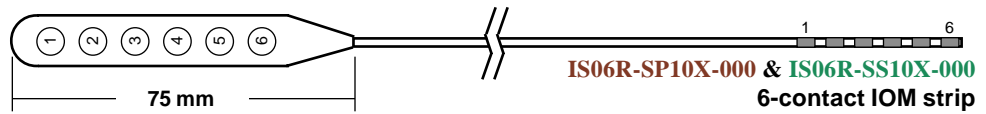
- Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

AD-TECH® INTRAOPERATIVE SUBDURAL STRIP & GRID ELECTRODES

- For intraoperative monitoring/mapping
- Platinum marker between 1st & 2nd contact on all IG-style intraoperative grids
- All contacts are numbered as shown
- Flexible main electrode body
- Please contact your AD-TECH representative for alternative designs or other special requirements



Electrodes are shown with the exposed contact surfaces facing DOWN.



Catalog Number	Former Number	Description ¹	No. of Contacts	Contact Size ²	Contact Material	Contact Spacing	CABRIO® Cable	TECH-ATTACH® Components		
								Cable	Block	Qty
IS04R-SP10X-000	CIE-4PX	1 x 4 IOM strip	4	4.0/2.3	platinum	10	L-SR-4DIN	L-DC-4DIN	DC-4X	(1)
IS05R-SP10X-000	CIE-5PX	1 x 5 IOM strip	5	4.0/2.3	platinum	10	L-SR-5DIN	L-DC-5DIN	DC-5X	(1)
IS06R-SP10X-000	CIE-6PX	1 x 6 IOM strip	6	4.0/2.3	platinum	10	L-SR-6DIN	L-DC-6DIN	DC-6X	(1)
IS08R-SP10X-000	CIE-8PX	1 x 8 IOM strip	8	4.0/2.3	platinum	10	L-SR-8DIN	L-DC-8DIN	DC-8X	(1)
IG20C-SP10X-000	CIE-20PX	4 x 5, 2-tails IOM grid	20	4.0/2.3	platinum	10	L-SR-20DIN	L-DC-20DIN	DC-10X	(2)
IS04R-SS10X-000	CIE-4X	1 x 4 IOM strip	4	4.0/2.3	stainless	10	L-SR-4DIN	L-DC-4DIN	DC-4X	(1)
IS05R-SS10X-000	CIE-5X	1 x 5 IOM strip	5	4.0/2.3	stainless	10	L-SR-5DIN	L-DC-5DIN	DC-5X	(1)
IS06R-SS10X-000	CIE-6X	1 x 6 IOM strip	6	4.0/2.3	stainless	10	L-SR-6DIN	L-DC-6DIN	DC-6X	(1)
IS08R-SS10X-000	CIE-8X	1 x 8 IOM strip	8	4.0/2.3	stainless	10	L-SR-8DIN	L-DC-8DIN	DC-8X	(1)
IG20C-SS10X-000	CIE-20X	4 x 5, 2-tails IOM grid	20	4.0/2.3	stainless	10	L-SR-20DIN	L-DC-20DIN	DC-10X	(2)

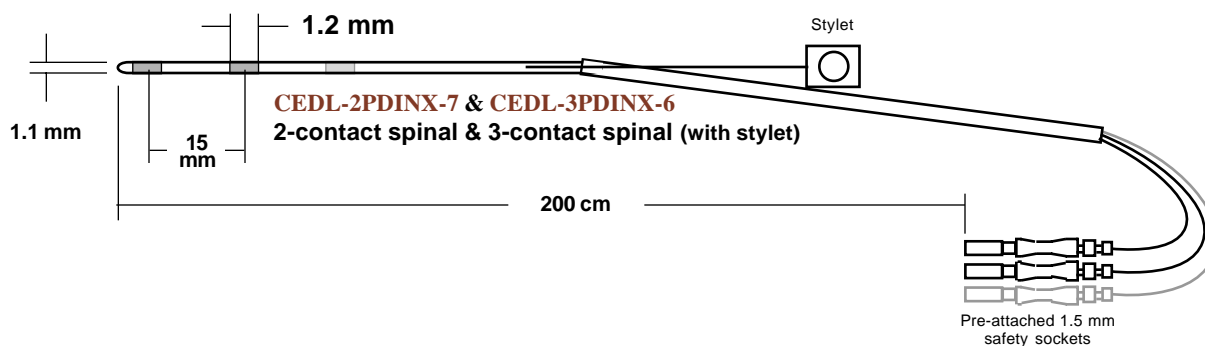
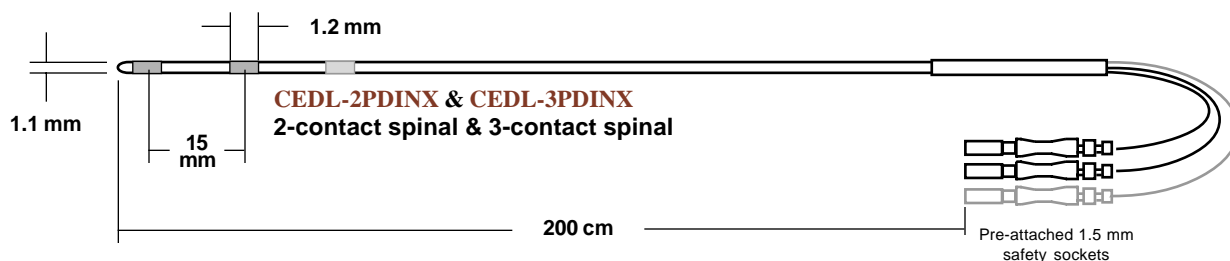
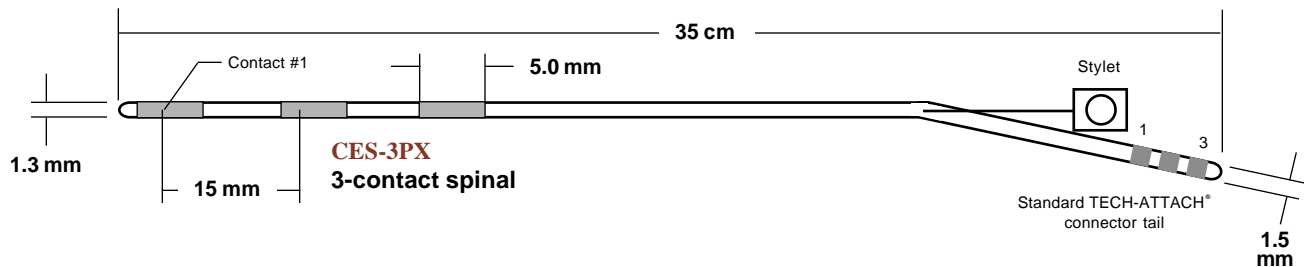
¹ Each electrode requires either the CABRIO cable or the TECH-ATTACH cable and the quantity of individual connector blocks as indicated.

² Contact size indicates the overall diameter of the contact followed by the diameter of the exposed surface (mm).

■ Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

AD-TECH® EPIDURAL SPINAL ELECTRODES

- For intraoperative monitoring of evoked potential (EPs) of the descending pathway during spinal surgery
- 2 or 3 platinum contacts
- Sterile; single-use only
- Please contact your AD-TECH representative for alternative designs or other special requirements



Catalog Number	Description ¹	Placement Material	Method	Connection Method ²		
				Cable	Connector	Qty
CES-3PX	3-contact spinal electrode for TECH-ATTACH® cables	platinum	internal stylet	L-DC-3DIN	DC-3X	(1)
CEDL-2PDINX	2-contact spinal electrode w/ pre-attached leads	platinum	16 gauge Tuohy	1.5 mm safety sockets		
CEDL-2PDINX-7	2-contact spinal electrode w/ pre-attached leads	platinum	16 ga. Tuohy + stylet	1.5 mm safety sockets		
CEDL-3PDINX	3-contact spinal electrode w/ pre-attached leads	platinum	16 gauge Tuohy	1.5 mm safety sockets		
CEDL-3PDINX-6	3-contact spinal electrode w/ pre-attached leads	platinum	16 ga. Tuohy + stylet	1.5 mm safety sockets		

L-DC-3DIN TECH-ATTACH cable for the CES-3PX spinal electrode. 1.5 mm safety socket. Non-sterile; sterilize via EtO or Sterrad.

DC-3X Disposable connector block for the L-DC-3DIN cable. Box of 10. Sterile; single-use only.

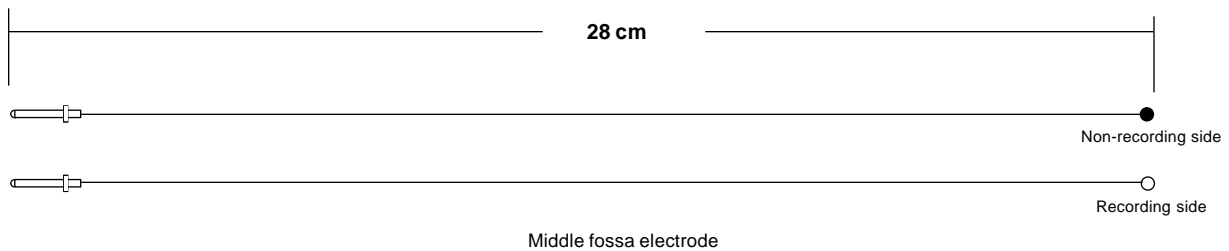
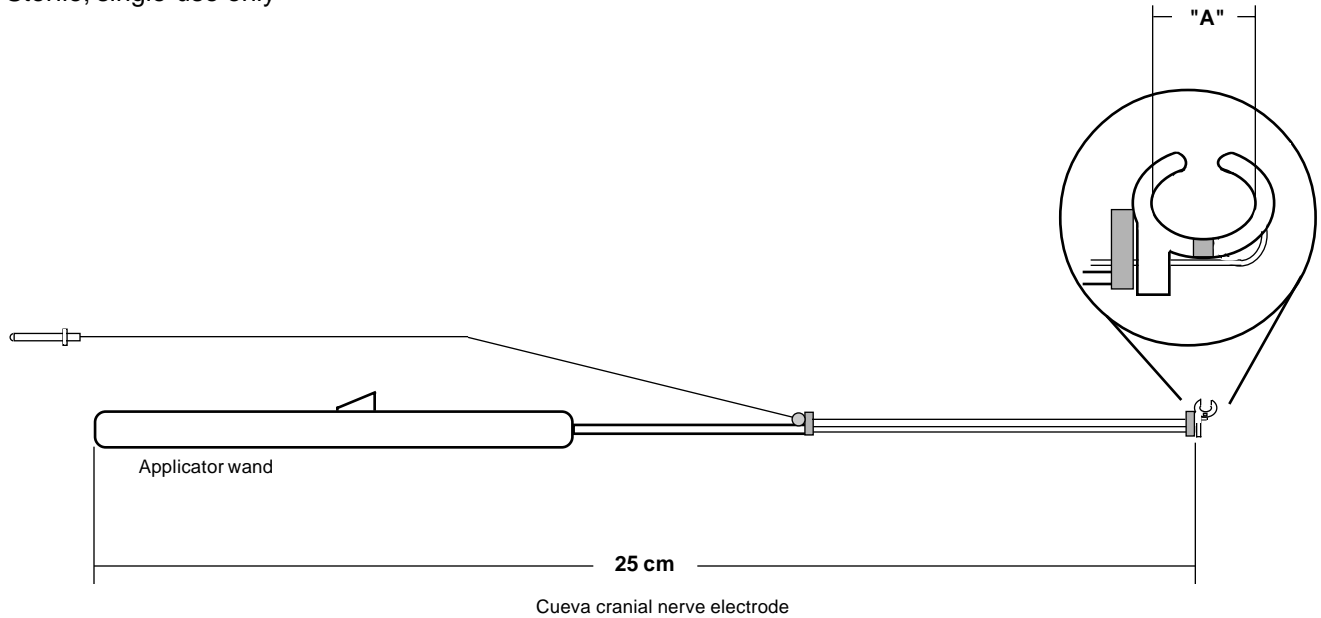
¹ All epidural spinal electrodes have platinum contacts. Sterile; single-use only

² CES-series electrodes require the TECH-ATTACH cable and connector block as indicated. CEDL-series electrodes do not require any additional cabling to interface with standard EP monitoring equipment.

■ Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

AD-TECH® CUEVA® CRANIAL NERVE ELECTRODES

- For direct cranial nerve monitoring during skull base surgeries
- Circumferential design
- Supplied in complete sterile kits
- Platinum contacts
- Easy-to-use applicator
- Highly-consistent amplitude; real-time status
- 25 cm long applicator wand
- 2.0 mm or 3.0 mm diameter “C-shaped” electrode
- 2.35 mm diameter platinum contact strip electrode (for the middle fossa approach)
- Sterile; single-use only



Catalog Number	Description ¹	Placement Material	Dimension "A"	Connection Method ²
CNE-2KDINX	2 mm cranial nerve electrode kit	platinum	2.0 mm	1.5 mm safety socket
CNE-3KDINX	3 mm cranial nerve electrode kit	platinum	3.0 mm	1.5 mm safety socket
CNE-1SKDINX	Middle fossa electrode kit	platinum	N/A	1.5 mm safety socket

¹ Each cranial nerve electrode kit includes: one 2.0 mm or 3.0 mm cranial nerve electrode with a platinum contact, one 25 cm long applicator wand and one 6 foot (1.8 m) lead wire terminating in a 1.5 mm safety socket. Sterile; single-use only.

Each middle fossa electrode kit includes: one electrode with a 2.35 mm diameter platinum contact (the black mark indicates the non-recording side) and one 6 foot (1.8 m) lead wire terminating in a 1.5 mm safety socket. Sterile; single-use only.

² All lead wires are 6 feet (1.8 m) long. All lead wires interface with standard EEG/EP amplifiers using 1.5 mm safety sockets. Contact your Ad-Tech representative for alternative termination options.

- Manufactured in U.S.A. All dimensions are approximate. All drawings are not to scale. Consult price sheets for current pricing.

CUSTOM PRODUCT REQUEST FORM

Ad-Tech® makes every effort to ensure that the products shown in this publication are available, in stock, and ready for immediate shipment. But we also recognize that sometimes your specific requirements may require special attention. In this case, please contact your Ad-Tech representative, or complete this form and fax it back to us. We promise to respond to your request in a timely manner.

Person requesting or ordering: _____ Date: _____

Hospital or customer: _____ P.O.: _____

Address: _____

City: _____ State: _____ Zip: _____ Country: _____

Phone: _____ Fax: _____ Email: _____

Please list all design parameters; include a sketch or drawing where needed (Check here if attachments are enclosed _____).

Indicate as applicable:

- All dimensions
- Material requirements
- Number of contacts
- Special wiring needs
- Body/tail configurations
- Other requirements

Name of patient: _____ Requested delivery: _____

Quantity required: _____

I authorize AD-TECH MEDICAL INSTRUMENT CORPORATION to design and ship the Custom Medical Device(s) described herein. I affirm that the device was ordered upon my knowledge and/or personal request and is intended for use only as per FDA 21 CFR 812.2(c)(7) & 812.3(b), Council Directive 93/42/EEC, Article 1, clause 2(d) & Annex VIII of the MDD, and/or Part 2 of the SOR/98-282 of the TPD, or equivalent. I understand that no warranty or claim is made regarding its efficacy. I understand that if any Directions for Use are included that they will be written in English, as will all labeling. If applicable, I understand that the device(s) is/are provided non-sterile and that Ad-Tech has not established a sterilization protocol. If applicable, and if I choose to sterilize the device(s), I understand that the sterilization temperature should not exceed _____ degrees Fahrenheit.

Signature: _____ X Date: _____ X

Name: _____ X
(Please print)

AD-TECH representative _____

If the device is similar to any previous request or order, specify the customer number, date requested or ordered, and previously-specified design features.

(Check here if attachments are enclosed _____).

Regulatory Path (per REGU-3008, or equiv.) _____ Risk Mgmt Path (per ENGR-2002, or equiv.) _____

Accepted by _____ Date _____

Cost _____ Estimated delivery _____

PRODUCT REGISTRATIONS

AD-TECH MEDICAL INSTRUMENT CORPORATION is proud to be an FDA and ISO registered company.

Unless otherwise stated, all products within this catalog meet the regulatory requirements of the FDA, the Therapeutic Products Directorate of Canada and the Medical Device Directive of the European Union. To determine the regulatory status of AD-TECH products in other countries, please contact your local AD-TECH distributor.

NOTE: Federal Law (U.S.A.) prohibits the sale of our CABRIO™ and TECH-ATTACH® cables with 2.0 mm male pins for clinical use. Therefore, for your safety and convenience, all of the CABRIO and TECH-ATTACH cables listed in this catalog feature 1.5 mm safety (DIN) connectors. Please contact your AD-TECH representative for information on alternative termination options.

REFERENCES

The following articles were published in peer-reviewed journals. Please contact AD-TECH to receive a reprint.

- Long-term outcome after epilepsy surgery for focal cortical dysplasia (2004)
- Intracranial EEG in Temporal Lobe Epilepsy: Location of Seizure Onset Relates to Degree of Hippocampal Pathology (2004)
- Use of an anteroomedial subdural strip electrode in the evaluation of medial temporal lobe epilepsy (2003)
- The Multicenter Study of Epilepsy Surgery: Recruitment and Selection for Surgery Randomized, Controlled Trial of Surgery for Temporal-Lobe Epilepsy (2003)
- Seizure Reduction and Quality of Life Improvements in People with Epilepsy (2002)
- Multiple Subpial Transection for Intractable Partial Epilepsy: An International Meta-Analysis (2002)
- Low-Frequency Electric Cortical Stimulation Has an Inhibitory Effect on Epileptic Focus in Mesial Temporal Lobe Epilepsy Randomized, Controlled Trial of Surgery for Temporal-Lobe Epilepsy (2002)
- Frontal Lobe Seizure Propagation: Scalp and Subdural EEG Studies (2001)
- A Randomized, Controlled Trial of Surgery for Temporal-Lobe Epilepsy (2001)
- Three-Dimensional Reconstruction and Surgical Navigation in Pediatric Epilepsy Surgery (2001)
- Experimental tests of EEG source localization accuracy in spherical head models (2001)
- Sources of error in comparing functional magnetic resonance imaging and invasive electrophysiological recordings (2000)
- Cerebral Microdialysis Combined with Single-Neuron and Electroencephalographic Recording in Neurosurgical Patients (1999)
- MR imaging of implanted depth and subdural electrodes: is it safe? (1999)
- Intraoperative validation of functional magnetic resonance imaging and cortical reorganization patterns in patients with brain tumors involving the primary motor cortex (1999)
- "Threshold-Level" Multipulse Transcranial Electrical Stimulation of Motor Tracts: Description of Method and Comparison of Somatosensory Evoked Potential Monitoring (1998)
- Basic Neurophysiology of Intraoperative Motor Evoked Potentials & Other Spinal Cord Monitoring Techniques (1998)
- Preoperative Predictors of Anterior Temporal Language Areas (1998)
- Electrophysiological Considerations Regarding Electrical Stimulation of Motor Cortex and Brain Stem in Humans (1998)
- The Role of Motor Evoked Potentials during Surgery for Intramedullary Spinal Cord Tumors (1997)
- Implantation of Grid and Strip Electrodes (1995)
- Stereotactic Depth Electrode Implantation in the Evaluation of Epilepsy Surgery Candidates (1995)
- Long-Term Monitoring with Scalp and Sphenoidal Electrodes: The Surgical Management of Epilepsy (1994)
- Use of Subdural Grids and Strip Electrodes to Identify a Seizure Focus in Children (1994)
- Extracellular hippocampal glutamate and spontaneous seizure in the conscious human brain (1993)
- Localization of the face area of human sensorimotor cortex by intracranial recording of somatosensory evoked potentials (1993)
- Morbidity of Long-term Seizure Monitoring using Subdural Strip Electrodes: A Follow-up (1993)
- Depth Electrodes: Surgical Treatment of the Epilepsies (1993)
- Subdural and Epidural Grids and Strips: Surgical Treatment of the Epilepsies (1993)
- Strip Electrodes: Surgical Treatment of the Epilepsies (1993)
- Cortical Stimulation (1993)
- Intraoperative Tailoring of Temporal Lobe Resections (1993)
- Adenosine: A Potential Mediator of Seizure Arrest and Postictal Refractoriness (1992)
- Detection of an Epileptic Focus and Cortical Mapping using a Subdural Grid (1992)
- Motor and Sensory Cortex in Humans: Topography Studied with Chronic Subdural Stimulation (1992)
- Relationship of Depth Electrode Complications to Implant Trajectory (1992)
- Surgical Decisions Regarding Medically Intractable Epilepsy (1992)
- High-Frequency EEG Activity at the Start of Seizures (1992)
- Localization of Sensorimotor Cortex: The Influence of Sherrington & Cushing on the Modern Concept (1992)
- Technology and Equipment Review: Intracranial Electrodes (1992)
- In Vivo Neurochemistry of the Conscious Human Brain: Intrahippocampal Microdialysis in Epilepsy (1991)
- Morbidity of Long-term Seizure Monitoring using Subdural Strip Electrodes (1991)
- Seizure Outcome from Anterior and Complete Corpus Callosotomy (1991)
- Parameters for Direct Cortical Electrical Stimulation in the Human: Histopathologic Confirmation (1990)
- Resection of the Epileptogenic Area in Critical Cortex with the Aid of a Subdural Electrode Grid (1990)
- Surgical Management of Complex Partial Seizures (1990)
- Comparison of Scalp to Subdural Recordings for Localizing Epileptogenic foci (1989)
- Interictal and Ictal Activity Recorded with Subdural Electrodes During Preoperative Evaluation for Surgical Treatment of Epilepsy (1989)
- Results of reoperation for failed epilepsy surgery (1989)
- Chronic Subdural Strip Electrode Recordings for Difficult Epileptic problems (1988)
- Strip Electrodes in Acute Electrocorticography (1988)
- Methohexital Activation of Epileptogenic Foci During Acute Electroconvulsive Therapy (1987)
- Subdural strip electrodes for localizing epileptogenic foci (1984)

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4,735,208 - 4,805,625 - 4,850,359 - 4,869,255 - 4,903,702 - 5,044,368
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Foreign Patents and Patents Pending



AD-TECH® Phone: 262.634.1555 | Email: sales@adtechmedical.com
Fax: 262.634.5668 | Website: www.adtechmedical.com

Toll Free (U.S.A.): 800.776.1555



AD-TECH[®] MEDICAL INSTRUMENT CORPORATION

1901 WILLIAM STREET, RACINE, WISCONSIN 53404 U.S.A.
Phone: 262.634.1555 | Email: sales@adtechmedical.com
Fax: 262.634.5668 | Website: www.adtechmedical.com

Toll Free (u.s.a.): 800.776.1555