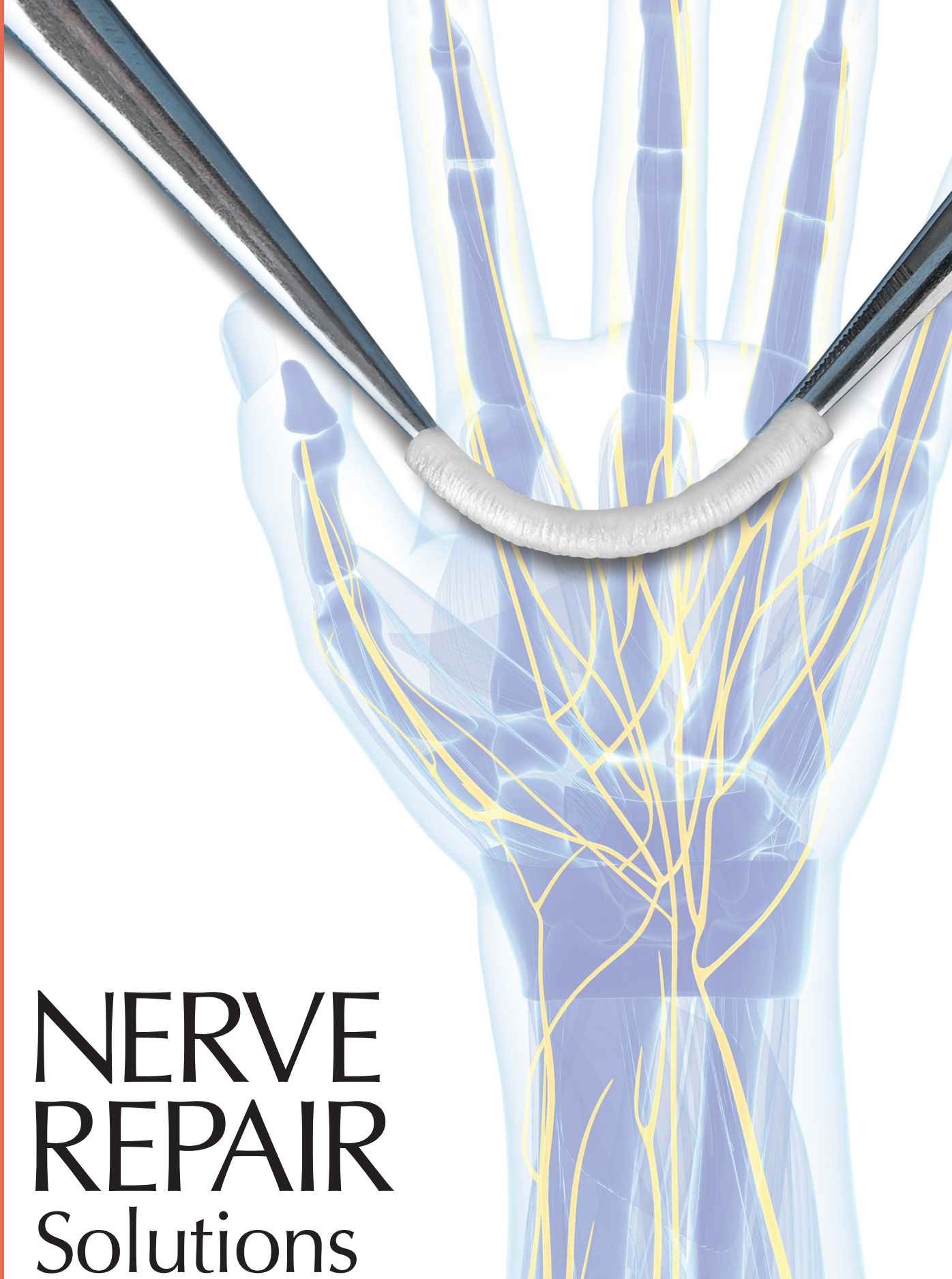


Nerve Repair

# NERVE REPAIR Solutions



**COLLAGEN MATRIX**  
SCIENCE • TECHNOLOGY • INNOVATION



## Why Use a Collagen Nerve Conduit or Wrap?

### Guides Axon Regeneration Across a Short Gap

- Alignment of regenerating axons<sup>1,2,6,7</sup>

### Resorbable and Biocompatible

- Resorbs through normal metabolic pathways in about 8 months<sup>6,7</sup>
- Type I collagen is better accepted by soft tissue than PGA-based conduits<sup>4,7</sup>

### Semipermeable

- Allows small-sized nutrients and neurotrophic factors to pass through matrix<sup>2,5</sup>
- Cell barrier for prevention of scar formation<sup>2,5,7</sup>

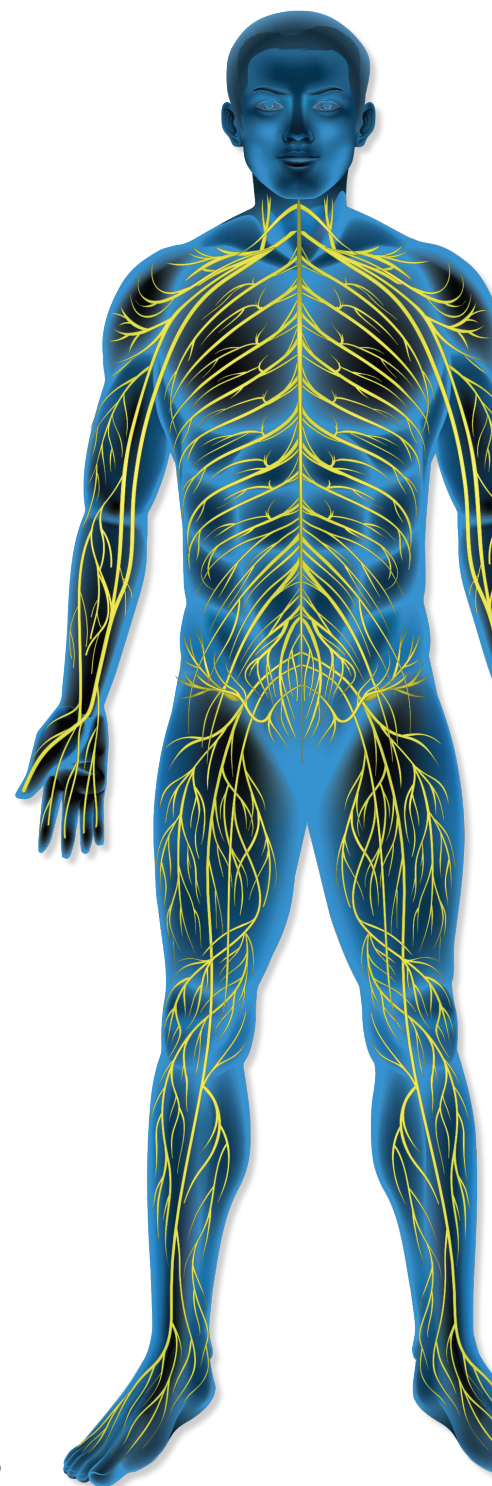
### Convenient, Single Surgical Procedure

- No harvest of autograft needed
- Removes risk of donor-site morbidity, scarring, and neuroma formation<sup>1</sup>
- Saves operating room time and anesthesia<sup>1</sup>

### Various Sizes Available, 3-year Shelf Life

- Easy size match vs. autograft
- Available when needed off the shelf
- Ease of inventory management

## When to Use a Collagen Nerve Conduit or Wrap?



PRODUCT	NERVE INJURY TYPE*	WHEN TO USE*	ADVANTAGES	AVAILABILITY
Neuroflex® Conduit	Severed	Gap across a joint	Flexible, kink resistant	6 diameters, 1 length
NeuroMatrix® Conduit	Severed	Straight gap locations	Standard	6 diameters, 1 length
NeuroMend® Wrap	Crushed or Compressed	Compressed nerves	Self-curling with overlap	3 expandable diameters, 2 lengths

\*See instructions for use of the products for specific indications.





# PERIPHERAL NERVE REPAIR SOLUTIONS

## Neuroflex®

FLEXIBLE COLLAGEN NERVE CONDUIT

### Flexible and kink resistant

- Bends to 60° without occlusion, standard conduits occlude at 20°<sup>3</sup>
- Corrugated sides allow for additional flexibility<sup>5</sup>

### Severed injuries

- Ideal for a gap across a joint



## NeuroMatrix®

STANDARD COLLAGEN NERVE CONDUIT

### Tensionless repair

- Alleviates potential tension at repair site

### Severed injuries

- Ideal for straight gap locations



## NeuroMend®

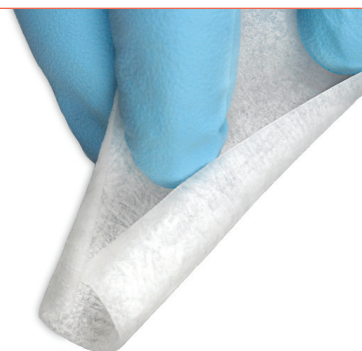
COLLAGEN NERVE WRAP

### Self-curling memory

- 25% overlap provides flexibility in diameter
- Reduces suturing

### Protection of injured nerve

- Ideal for crush or compression injuries and partially severed nerves



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Nerve  
Repair

# PRODUCT INFORMATION







## Neuroflex®

FLEXIBLE COLLAGEN NERVE CONDUIT

CATALOG NO.	INNER DIAMETER	LENGTH
CNCF2025	2.0 mm 	2.5 cm
CNCF2525	2.5 mm 	2.5 cm
CNCF3025	3.0 mm 	2.5 cm
CNCF4025	4.0 mm 	2.5 cm
CNCF5025	5.0 mm 	2.5 cm
CNCF6025	6.0 mm 	2.5 cm







## NeuroMatrix®

STANDARD COLLAGEN NERVE CONDUIT

CATALOG NO.	INNER DIAMETER	LENGTH
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CNC6025	6.0 mm 	2.5 cm

## NeuroMend®

COLLAGEN NERVE WRAP

CATALOG NO.	MAXIMUM INNER DIAMETER (no overlap)	LENGTH	DIAMETER OF INJURED NERVE*	SELF CURLING DESIGN OF WRAP (overlap) (no overlap)
CNW4025	4.0 mm	2.5 cm	2 - 4 mm	 → 
CNW4050	4.0 mm	5.0 cm	2 - 4 mm	
CNW6025	6.0 mm	2.5 cm	3 - 6 mm	 → 
CNW6050	6.0 mm	5.0 cm	3 - 6 mm	
CNW12025	12.0 mm	2.5 cm	6 - 12 mm	 → 
CNW12050	12.0 mm	5.0 cm	6 - 12 mm	

\*25% overlap is recommended – the max diameters require the wrap to meet end-to-end which may require a running suture technique.

### References:

1. Weber RA, Breidenbach WC, Brown RE, Jabaley ME, Mass DP. A Randomized Prospective Study of Polyglycolic Acid Conduits for Digital Nerve Reconstruction in Humans. *Plast Reconstr Surg* 2000 Oct;106(5):1036-45; discussion 1046-8.
2. Li ST, Archibald SJ, Krarup C, Madison RD. Peripheral Nerve Repair with Collagen Conduits. *Clinical Materials* 9 (1992) 195-200.
3. In vitro data on file at Collagen Matrix, Inc.
4. Waitayavinnu T, Parisi D, Miller B, Luria S, Morton H, Chin S, Trumble T. A Comparison of Polyglycolic Acid Versus Type I Collagen Bioabsorbable Nerve Conduits in a Rat Model: An Alternative to Autografting. *Journal of Hand Surgery* 2007 Dec; Vol. 32A No.10:1521-9.
5. U.S Patent #6,716,225, Implant Devices for Nerve Repair, 2004.
6. Animal study data on file at Collagen Matrix, Inc.
7. The results of preclinical and in vitro studies may not be indicative of human clinical outcomes.



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