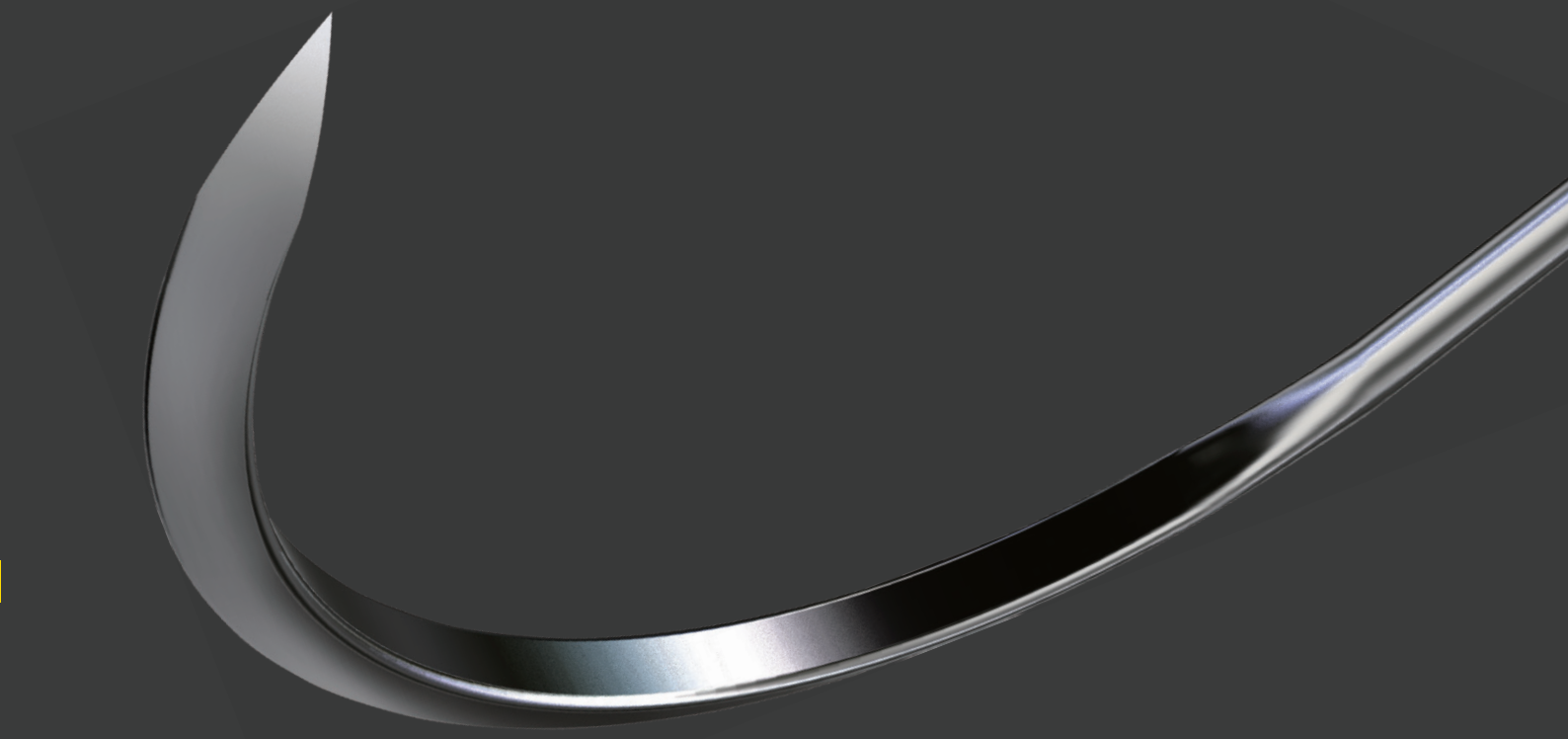
MANI

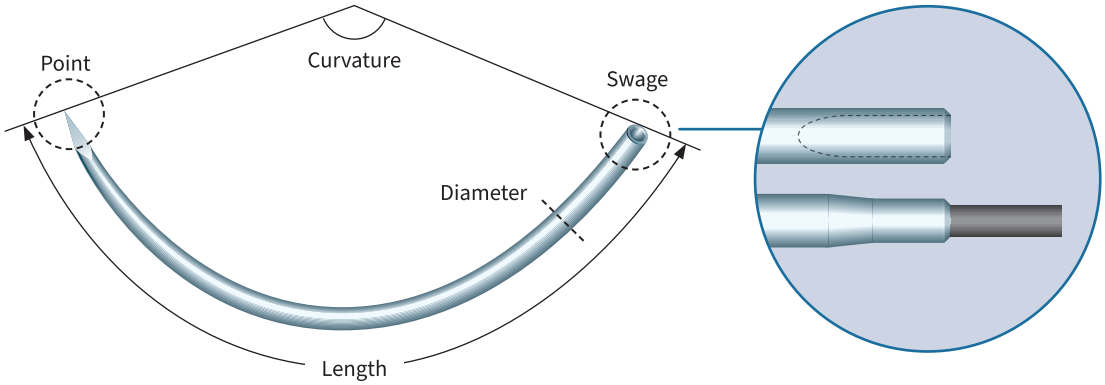
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MANI OPHTHALMIC SUTURES



MANI OPHTHALMIC SUTURES

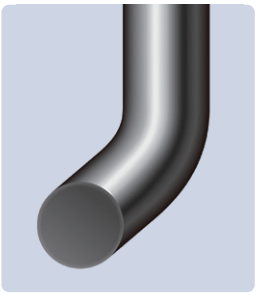
NEEDLE STRUCTURE



SUTURE MATERIALS

NYLON *Common in Ophthalmic Surgery

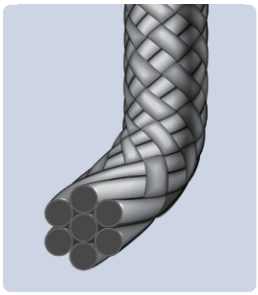
Package Sticker Color



Absorption	No
Hydrolysis*	No
Handling	Excellent
Possibility of Tissue Reaction	Less
Suture Color	Black, Clear
Monofillament	Yes
Braided	No
Twisted	No
Loops	No
Size	11-0, 10-0, 9-0, 8-0, 7-0, 6-0, 5-0

SILK

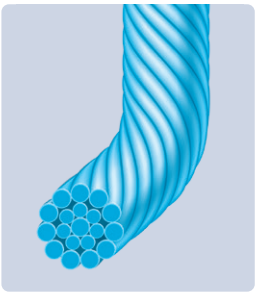
Package Sticker Color



Absorption	No
Hydrolysis*	No
Handling	Excellent
Possibility of Tissue Reaction	Less
Suture Color	Black, White
Monofillament	No
Braided	Yes
Twisted	No
Loops	No
Size	8-0, 7-0, 6-0, 5-0, 4-0

VIRGIN SILK

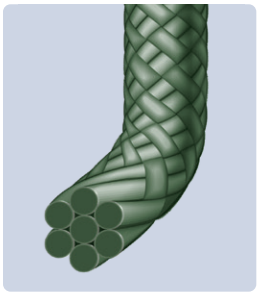
Package Sticker Color



Absorption	No
Hydrolysis*	No
Handling	Excellent
Possibility of Tissue Reaction	Some
Suture Color	Blue
Monofillament	No
Braided	No
Twisted	Yes
Loops	No
Size	9-0, 8-0

POLYESTER

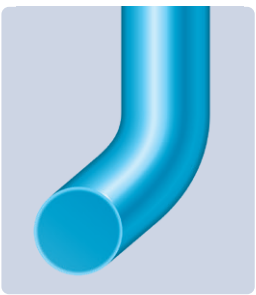
Package Sticker Color



Absorption	No
Hydrolysis*	No
Handling	Good
Possibility of Tissue Reaction	Less
Suture Color	Green, White
Monofillament	No
Braided	Yes
Twisted	No
Loops	No
Size	5-0, 4-0

POLYPROPYLENE

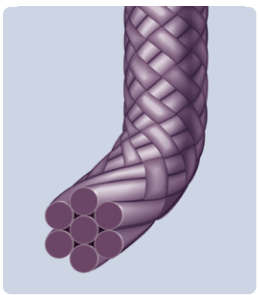
Package Sticker Color



Absorption	No
Hydrolysis*	No
Handling	Good
Possibility of Tissue Reaction	Less
Suture Color	Blue
Monofillament	Yes
Braided	No
Twisted	No
Loops	Yes
Size	10-0, 9-0, 7-0, 6-0

PGA

Package Sticker Color



Absorption	Yes
Hydrolysis*	Yes
Handling	Excellent
Possibility of Tissue Reaction	Some
Suture Color	Violet
Monofillament	No
Braided	Yes
Twisted	No
Loops	No
Size	8-0, 7-0, 6-0, 5-0

* Please read instruction before use. It is generally said as above, however there are possibility that all materials can be hydrolyzed.

Equivalency

	Material	MANI	Ethicon	Alcon	Sharpoint
Non Absorbable	Nylon	Nylon	Ethilon (mono) / Nurolon (braided)	Nylon	Nylon
	Silk	Silk	Perma-Hand Silk	Silk	Silk
	Polyester	Polyester	Mersilene (Uncoated) / Ethibond (Coated)	Polyester	Polyviolene
	Polypropylene	Polypropylene	Prolene	Polypropylene	polypropylene
Absorbable	Synthetic Absorbable (Braided)	PGA (polyglycolic acid)	Vicryl	BioSorb	PolySyn / PGA

NEEDLE CHART

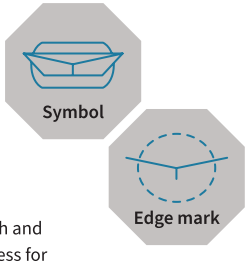
Legends of MANI needle code

e.g. ZG055-14
- Needle code / Needle curvature
- Length (mm) =5.5mm
- Diameter (mm) =0.14mm

ZG16-14
- Needle code / Needle curvature
- Length (mm) =16mm
- Diameter (mm) =0.14mm

Z Trape spatula

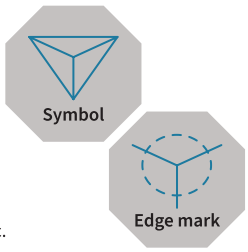




Specially designed spatula edge enabling smooth and stable penetration. Enough strenght and sharpness for sclera and muscles. Generally used for anterior segment surgeries. *Common in Ophthalmic Surgery.

R Reverse cut

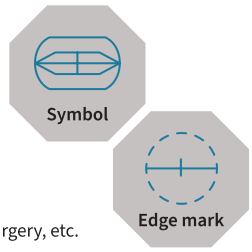




For the hard eye tissue such as Skin, Muscles, etc.

X Dia spatula

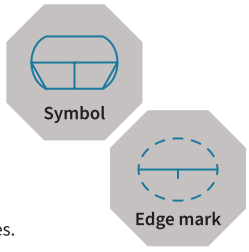




For Retinal detachment, Strabismus, Vitreous surgery, etc.

P Lancet

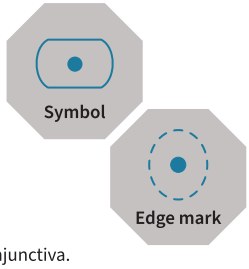




For Oculoplastic such as skin & skin oclar muscles.
Smaller trauma than Reverse cutting.

T Taper point

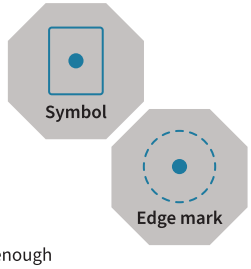




Needle edge is sharply pointed with no edge (Nontraumatic). Used for soft tissues such as conjunctiva.

OV Taper Point (Rectangular)

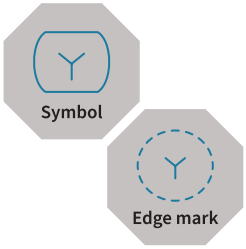




Needle edge is sharply pointed with no edge (Nontraumatic). Needle body is rectangular for enough strength to penetrate Sclera together with conjunctiva.

Y Cut taper

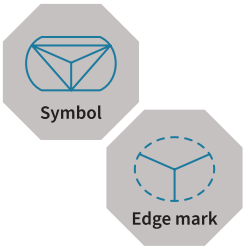




Taper point with side cutting edge allows easier penetration to tissues Used for repositioning of Palpebral furrow, Rectus traction, control suture and etc...

V Spatula side cut





For IOL fixation and Iris repair.

Needle curvature

e.g.



3/8 Circle

K 1/4 Circle 90 deg.



I 5/16 Circle 113 deg.



E 3/8 Circle 135 deg.



*Common in Ophthalmology

G 7/16 Circle 158 deg.



H 1/2 Circle 180 deg.



B Bi-Curve



S Straight

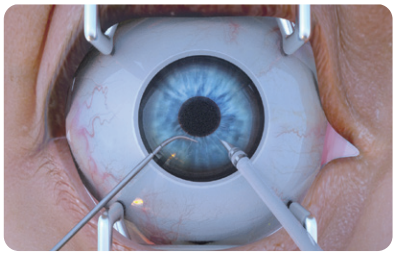


MANI Suture List by Operation

The following list is for reference only. The sutures are used depending on the surgeon's techniques and preference.

Anterior

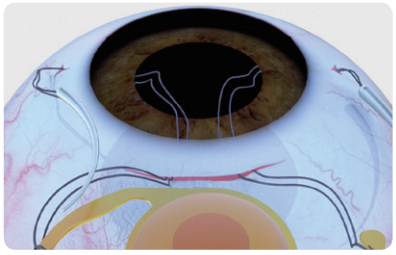
Cataract Surgery



Suture			Needle					Main Application	Order No.
UPS	Description	Length	Image & symbol	Length	Curve	Diam.	Code		
10-0	●Nylon Black Mono	30cm	Trape spatula	6.0mm	3/8 135°	0.14mm	ZE06-14	Sclerocornea	**1406**
10-0	●Nylon Black Mono	30cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20	Sclerocornea	**2002**
9-0	●Virgin Silk Blue Twisted	45cm	Trape spatula	6.0mm	3/8 135°	0.14mm	ZE06-14	Conjunctiva	**1413**
8-0	●Virgin Silk Blue Twisted	45cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20	Conjunctiva	**2024**
4-0	●Silk Black Braided	45cm	Taper point	13.0mm	3/8 135°	0.38mm	TE13-38	Control Suture	**3801**

Anterior

IOL Fixation



Suture			Needle					Main Application	Order No.
UPS	Description	Length	Image & symbol	Length	Curve	Diam.	Code		
10-0	○Polypropylene Blue Mono	30cm	Spatula side cut & Trape spatula	16.0mm 4.5mm	Straight 7/16 158°	0.14mm	VS16-14 ZG045-14	IOL Secondary implantation	**1455P**
10-0	○Polypropylene Blue Mono	20cm	Spatula side cut	15.0mm	1/4 90°	0.24mm	VK15-24	IOL Secondary implantation	**2451L**
9-0	○Polypropylene Blue Mono	30cm	Spatula side cut & Trape spatula	16.0mm 4.5mm	Straight 7/16 158°	0.14mm	VS16-14 ZG045-14	IOL Secondary implantation	**1465P**
9-0	○Polypropylene Blue Mono	20cm	Spatula side cut	15.0mm	1/4 90°	0.24mm	VK15-24	IOL Secondary implantation	**2452L**

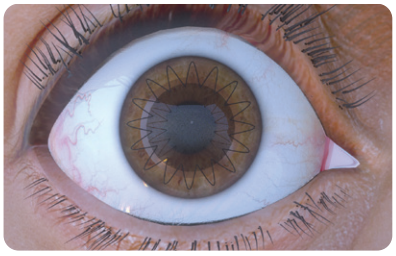
Anterior

Scleral Fixation IOL-Cat. Surgery

Suture			Needle					Main Application	Order No.
UPS	Description	Length	Image & symbol	Length	Curve	Diam.	Code		
8-0	Nylon Black Mono	30cm	Trape spatula	5.5mm	7/16 158°	0.14mm	ZG055-14	Sclera	**1421**
8-0	Nylon Black Mono	30cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20	Sclera	**2056**
8-0	PGA ABSORBABLE Violet Braided	30cm	Trape spatula	6.0mm	3/8 135°	0.14mm	ZE06-14	Conjunctiva	**1490**
8-0	PGA ABSORBABLE Violet Braided	30cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20	Conjunctiva	**2090**

Anterior

Corneal transplant (KP)



Suture			Needle					Main Application	Order No.
UPS	Description	Length	Image & symbol	Length	Curve	Diam.	Code		
10-0	Nylon Black Mono	30cm	Trape spatula	5.5mm	7/16 158°	0.14mm	ZG055-14	Cornea	**1404**
10-0	Nylon Black Mono	30cm	Trape spatula	6.0mm	3/8 135°	0.14mm	ZE06-14	Cornea	**1406**

Anterior

Pterygium & Conjunctivochalasis (CCh)



Suture			Needle					Main Application	Order No.
UPS	Description	Length	Image & symbol	Length	Curve	Diam.	Code		
8-0	Virgin Silk Blue Twisted	45cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20	Conjunctiva	**2024**
8-0	Nylon Black Mono	30cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20	Suturing back of eyelid	**2056**

MANI Suture List by Operation

The following list is for reference only. The sutures are used depending on the surgeon's techniques and preference.

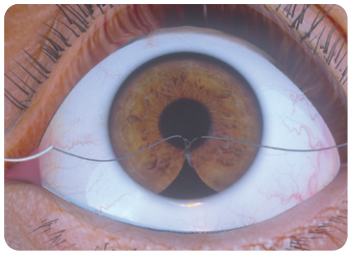
Anterior

Sty (Hordeolum) & Chalazion

Suture			Needle					Main Application	Order No.
UPS	Description	Length	Image & symbol	Length	Curve	Diam.	Code		
7-0	●Nylon Black Mono	30cm	Lancet	8.0mm	3/8 135°	0.33mm	PE08-33	Suturing back of eyelid	**3361**
8-0	●Nylon Black Mono	30cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20	Suturing back of eyelid	**2056**
8-0	●Virgin Silk Blue Twisted	45cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20	Suturing back of eyelid	**2024**
8-0	●PGA ABSORBABLE Violet Braided	30cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20	Conjunctiva	**2090**

Anterior

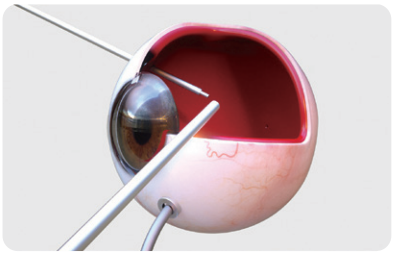
Iris Reconstruction



Suture			Needle					Main Application	Order No.
UPS	Description	Length	Image & symbol	Length	Curve	Diam.	Code		
10-0	○Polypropylene Blue Mono	20cm	Spatula side cut	16.0mm	Straight	0.14mm	VS16-14	Iris Reconstruction / IOL Fixation	**1470**
10-0	○Polypropylene Blue Mono	20cm	Spatula side cut	13.0mm	1/4 90°	0.24mm	VK13-24	Iris Reconstruction / IOL Fixation	**2450**

Posterior

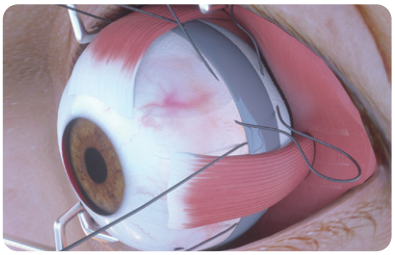
Vitreous surgery



Suture			Needle					Main Application	Order No.
UPS	Description	Length	Image & symbol	Length	Curve	Diam.	Code		
5-0	Polyester White Braided	45cm	Dia spatula	8.0mm	1/4 90°	0.33mm	XK08-33	Holding Infusion Cannula / Flame of Surgical Lens	**3370**
8-0	Nylon Black Mono	30cm	Trape spatula	5.5mm	7/16 158°	0.14mm	ZG055-14	Closing MVR port	**1421**
7-0	Nylon Black Mono	30cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20	Closing MVR port	**2058**
8-0	PGA ABSORBABLE Violet Braided	30cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20	Closing MVR port Conjunctiva	**2090**
7-0	Silk Black Braided	45cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20	Holding Flame of Surgical Lens	**2008**
8-0	Virgin Silk Blue Twisted	45cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20	Conjunctiva	**2024**
8-0	PGA ABSORBABLE Violet Braided	30cm	Trape spatula	6.0mm	3/8 135°	0.14mm	ZE06-14	Conjunctiva	**1490**

Posterior

Retinal detachment (Sclera Buckling)



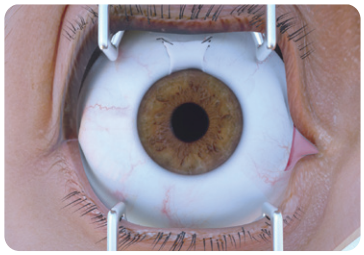
Suture			Needle					Main Application	Order No.
UPS	Description	Length	Image & symbol	Length	Curve	Diam.	Code		
4-0	Silk Black Braided	45cm	Taper point	13.0mm	3/8 135°	0.38mm	TE13-38	Control Suture	**3801**
5-0	Polyester White Braided	45cm	Dia spatula	8.0mm	1/4 90°	0.33mm	XK08-33	Buckling	**3370**
7-0	Silk Black Braided	45cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20	Muscle	**2008**
8-0	PGA ABSORBABLE Violet Braided	30cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20	Conjunctiva / Sclera	**2090**

MANI Suture List by Operation

The following list is for reference only. The sutures are used depending on the surgeon's techniques and preference.

Posterior

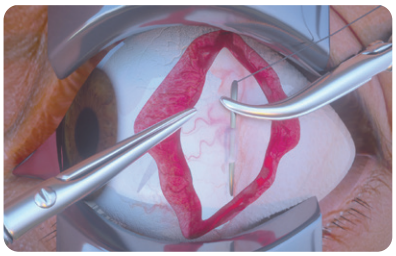
Glaucoma Surgery (Sclera Flap & Conjunctiva)



Suture			Needle					Main Application	Order No.
UPS	Description	Length	Image & symbol	Length	Curve	Diam.	Code		
10-0	Nylon Black Mono	30cm	Trape spatula	5.5mm	7/16 158°	0.14mm	ZG055-14	Sclera Flap	**1404**
10-0	Nylon Black Mono	30cm	Trape spatula	6.0mm	3/8 135°	0.14mm	ZE06-14	Sclera Flap	**1406**
10-0	Nylon Black Mono	30cm	Taper point	5.5mm	7/16 158°	0.14mm	TG055-14	Conjunctiva	**1475**
10-0	Nylon Black Mono	45cm	Taper point	6.0mm	3/8 135°	0.14mm	TE06-14	Conjunctiva	**1459**
10-0	Nylon Black Mono	30cm	Taper point ractenguler	6.5mm	3/8 135°	0.14mm	OVE065-14	Conjunctiva	**1430**
6-0	Silk Black Braided	45cm	Trape spatula	6.5mm	3/8 135°	0.28mm	ZE065-28	Control	**2801**

Posterior

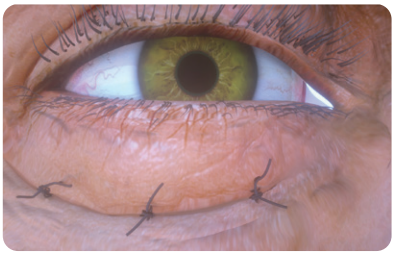
Strabismus



Suture			Needle					Main Application	Order No.
UPS	Description	Length	Image & symbol	Length	Curve	Diam.	Code		
6-0	PGA ABSORBABLE Violet Braided	45cm	Dia spatula	8.5mm	1/4 90°	0.28mm	XK085-28	Conjunctiva / Sclera	**2890**
5-0	PGA ABSORBABLE Violet Braided	45cm	Dia spatula	8.5mm	1/4 90°	0.33mm	XK085-33	Conjunctiva / Sclera	**3391**
8-0	Nylon Black Mono	30cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20	Conjunctiva / Sclera	**2056**
4-0	Silk Black Braided	50cm	Single-armed / Lancet	13.0mm	3/8 135°	0.43mm	PE13-43	Control Suture	**4359S**
4-0	Silk Black Braided	45cm	Taper point	13.0mm	3/8 135°	0.38mm	TE13-38	Control Suture	**3801**
8-0	PGA ABSORBABLE Violet Braided	30cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20	Conjunctiva	**2090**

Oculoplasty

Double Eyelid Surgery & Trichiasis (Ingrowing eyelashes)



Suture			Needle					Main Application	Order No.
UPS	Description	Length	Image & symbol	Length	Curve	Diam.	Code		
7-0	●Nylon Black Mono	30cm	Cut taper	15.0mm	3/8 135°	0.33mm	YE15-33	Reposition of palpebral furrow	3365
7-0	●Nylon Clear Mono	30cm	Cut taper	15.0mm	3/8 135°	0.33mm	YE15-33	Reposition of palpebral furrow	3388
6-0	●Nylon Black Mono	30cm	Cut taper	15.0mm	3/8 135°	0.33mm	YE15-33	Reposition of palpebral furrow	3386
7-0	○Polypropylene Blue Mono	30cm	Cut taper	15.0mm	3/8 135°	0.33mm	YE15-33	Reposition of palpebral furrow	3309
6-0	○Polypropylene Blue Mono	30cm	Cut taper	15.0mm	3/8 135°	0.33mm	YE15-33	Reposition of palpebral furrow	3312

Oculoplasty

Ptosis (Drooping eyelid)



Suture			Needle					Main Application	Order No.
UPS	Description	Length	Image & symbol	Length	Curve	Diam.	Code		
7-0	●Nylon Black Mono	30cm	Lancet	8.0mm	3/8 135°	0.33mm	PE08-33	Skin	3361
7-0	●Nylon Black Mono	50cm	Lancet	11.0mm	3/8 135°	0.33mm	PE11-33	Skin	3364
6-0	●Nylon Black Mono	50cm	Lancet	11.0mm	3/8 135°	0.33mm	PE11-33	Skin	3382
7-0	○Polypropylene Blue Mono	60cm	Cut taper	11.0mm	3/8 135°	0.33mm	Y5E11-33	Skin	3314
6-0	○Polypropylene Blue Mono	60cm	Cut taper	11.0mm	3/8 135°	0.33mm	Y5E11-33	Skin	3317

MANI OPHTHALMIC SUTURES

11-0 (0.1metric) Needled Sutures

Suture		Needle					Main Application	Order No.
Description	Length	Image & symbol	Length	Curve	Diam.	Code		
●Nylon Black Mono	13cm	Taper point **Single-armed**	4.0mm	3/8 135˚	0.05mm	OE04-05	For laboratories	**0550S**
	20cm	Trape spatula	5.5mm	7/16 158˚	0.10mm	ZG055-10	Sclerocornea	**1000**
	10cm	Trape spatula **Single-armed**	5.5mm	7/16 158˚	0.10mm	ZG055-10		**1000S**
	20cm	Trape spatula	5.5mm	7/16 158˚	0.14mm	ZG055-14		**1403**
	30cm	Trape spatula	5.5mm	7/16 158˚	0.14mm	ZG055-14		**1476**
	10cm	Trape spatula **Single-armed**	6.0mm	3/8 135˚	0.14mm	ZE06-14		**1478S**

10-0 (0.2metric) Needled Sutures

Suture		Needle					Main Application	Order No.
Description	Length	Image & symbol	Length	Curve	Diam.	Code		
●Nylon Black Mono	30cm	Trape spatula	5.0mm	Bi-curve 90˚/50˚	0.14mm	ZB05-14	Sclerocornea	**1401**
	15cm	Trape spatula **Single-armed**	5.0mm	Bi-curve 90˚/50˚	0.14mm	ZB05-14		**1401S**
	20cm	Trape spatula	5.0mm	Bi-curve 90˚/50˚	0.14mm	ZB05-14		**1474**
	30cm	Trape spatula	5.5mm	7/16 158˚	0.10mm	ZG055-10		**1001**
	30cm	Trape spatula	5.5mm	7/16 158˚	0.14mm	ZG055-14		**1404**
	15cm	Trape spatula **Single-armed**	5.5mm	7/16 158˚	0.14mm	ZG055-14		**1404S**
	15cm	Trape spatula	5.5mm	7/16 158˚	0.14mm	ZG055-14		**1482**
	30cm	Trape spatula	5.5mm	7/16 158˚	0.20mm	ZG055-20		**2000**
	30cm	Trape spatula	6.0mm	3/8 135˚	0.14mm	ZE06-14		**1406**
	15cm	Trape spatula **Single-armed**	6.0mm	3/8 135˚	0.14mm	ZE06-14		**1406S**
	6cm	Trape spatula **Single-armed**	6.0mm	3/8 135˚	0.14mm	ZE06-14		**1468S**
	15cm	Trape spatula	6.0mm	3/8 135˚	0.14mm	ZE06-14		**1452**
	30cm	Trape spatula	6.5mm	3/8 135˚	0.20mm	ZE065-20		**2002**
	15cm	Trape spatula **Single-armed**	6.5mm	3/8 135˚	0.20mm	ZE065-20		**2002S**
	30cm	Trape spatula	7.0mm	1/2 180˚	0.14mm	ZH07-14		**1410**

TYPE OF MANI SUTURES	USA	EU
MANI SUTURES NYLON	Available	Available
MANI SUTURES SILK / VIRGIN SILK	Available	Available
MANI SUTURES POLYESTER	Available	Available
MANI SUTURES POLYPROPYLENE	**Not Available**	Available
MANI SUTURES PGA	Available	**Not Available**

10-0 (0.2metric) Needled Sutures

Suture		Needle						Main Application	Order No.
Description	Length	Image & symbol		Length	Curve	Diam.	Code		
●Nylon Black Mono	15cm	Trape spatula **Single-armed**		7.0mm	1/2 180°	0.14mm	ZH07-14	Sclerocornea	**1410S**
	20cm	Taper point **Single-armed**		4.0mm	3/8 135°	0.10mm	TE04-10	Conjunctiva for Glaucoma	**1053S**
	20cm	Taper point **Single-armed**		5.0mm	3/8 135°	0.10mm	TE05-10		**1052S**
	30cm	Taper point		5.5mm	7/16 158°	0.14mm	TG055-14		**1475**
	45cm	Taper point		6.0mm	3/8 135°	0.14mm	TE06-14		**1459**
	13cm	Taper point **Single-armed**		6.0mm	3/8 135°	0.14mm	TE06-14		**1459S**
	30cm	Taper point rectangular		6.5mm	3/8 135°	0.14mm	OVE065-14		**1430**
	15cm	Taper point rectangular **Single-armed**		6.5mm	3/8 135°	0.14mm	OVE065-14		**1430S**
	30cm	Taper point rectangular		6.0mm	7/16 158°	0.14mm	OVG06-14		**1432**
	30cm	Taper point rectangular		6.0mm	3/8 135°	0.14mm	OVE06-14		**1433**
○Polypropylene Blue Mono	30cm	Trape spatula		5.5mm	7/16 158°	0.14mm	ZG055-14	Sclerocornea	**1415**
	30cm	Trape spatula		6.0mm	3/8 135°	0.14mm	ZE06-14		**1417**
	15cm	Trape spatula **Single-armed**		6.0mm	3/8 135°	0.14mm	ZE06-14		**1417S**
	30cm	Trape spatula		6.5mm	3/8 135°	0.20mm	ZE065-20		**2021**

9-0 (0.3metric) Needled Sutures

Suture		Needle						Main Application	Order No.
Description	Length	Image & symbol		Length	Curve	Diam.	Code		
●Nylon Black Mono	30cm	Trape spatula		5.0mm	Bi-curve 90°/50°	0.14mm	ZB05-14	Sclerocornea	**1402**
	30cm	Trape spatula		5.5mm	7/16 158°	0.14mm	ZG055-14		**1405**
	30cm	Trape spatula		6.0mm	3/8 135°	0.14mm	ZE06-14		**1407**
	15cm	Trape spatula **Single-armed**		6.0mm	3/8 135°	0.14mm	ZE06-14		**1407S**
	30cm	Trape spatula		6.5mm	3/8 135°	0.20mm	ZE065-20		**2003**
	15cm	Trape spatula **Single-armed**		6.5mm	3/8 135°	0.20mm	ZE065-20		**2003S**

MANI OPHTHALMIC SUTURES

9-0 (0.3metric) Needled Sutures

Suture		Needle					Main Application	Order No.
Description	Length	Image & symbol	Length	Curve	Diam.	Code		
●Virgin Silk Blue Twisted	45cm	Trape spatula	5.5mm	7/16 158°	0.14mm	ZG055-14	Sclerocornea	**1453**
	45cm	Trape spatula	6.0mm	3/8 135°	0.14mm	ZE06-14		**1413**
	20cm	Trape spatula **Single-armed**	6.0mm	3/8 135°	0.14mm	ZE06-14		**1413S**
	15cm	Trape spatula	6.0mm	3/8 135°	0.14mm	ZE06-14		**1480**
	45cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20		**2020**
	20cm	Trape spatula **Single-armed**	6.5mm	3/8 135°	0.20mm	ZE065-20		**2020S**
	45cm	Taper point	6.0mm	3/8 135°	0.14mm	TE06-14	Conjunctiva for Glaucoma	**1450**
○Polypropylene Blue Mono	30cm	Trape spatula	5.5mm	7/16 158°	0.14mm	ZG055-14	Sclerocornea	**1416**
	30cm	Trape spatula	6.0mm	3/8 135°	0.14mm	ZE06-14		**1418**
	30cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20		**2022**

8-0 (0.4metric) Needled Sutures

Suture		Needle					Main Application	Order No.
Description	Length	Image & symbol	Length	Curve	Diam.	Code		
●Nylon Black Mono	30cm	Trape spatula	5.5mm	7/16 158°	0.14mm	ZG055-14	Sclera	**1421**
	30cm	Trape spatula	6.5mm	1/4 90°	0.20mm	ZK065-20		**2054**
	30cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20		**2056**
	30cm	Trape spatula	7.0mm	1/2 180°	0.20mm	ZH07-20		**2028**
	50cm	Reverse cut	11.0mm	3/8 135°	0.24mm	RE11-24	Skin	**2461**
	50cm	Reverse cut	11.0mm	3/8 135°	0.24mm	RE11-24		**2461S**
●Silk Black Braided	45cm	Trape spatula	6.0mm	3/8 135°	0.18mm	ZE06-18	Sclera and Conjunctiva	**1467**
	45cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20		**2023**
	20cm	Trape spatula **Single-armed**	6.5mm	3/8 135°	0.20mm	ZE065-20		**2023S**
●Virgin Silk Blue Twisted	45cm	Trape spatula	6.0mm	3/8 135°	0.14mm	ZE06-14		**1419**
	45cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20		**2024**
	20cm	Trape spatula **Single-armed**	6.5mm	3/8 135°	0.20mm	ZE065-20		**2024S**

TYPE OF MANI SUTURES	USA	EU
MANI SUTURES NYLON	Available	Available
MANI SUTURES SILK / VIRGIN SILK	Available	Available
MANI SUTURES POLYESTER	Available	Available
MANI SUTURES POLYPROPYLENE	**Not Available**	Available
MANI SUTURES PGA	Available	**Not Available**

8-0 (0.4metric) Needled Sutures

Suture		Needle					Main Application	Order No.
Description	Length	Image & symbol	Length	Curve	Diam.	Code		
●Virgin Silk Blue Twisted	30cm	Trape spatula	6.5mm	3/8 135˚	0.20mm	ZE065-20	Sclera and Conjunctiva	**2051**
	45cm	Trape spatula	7.0mm	1/2 180°	0.20mm	ZH07-20		**2019**
	45cm	Taper point	6.0mm	3/8 135˚	0.14mm	TE06-14	Conjunctiva for Glaucoma	**1466**
●PGA ABSORBABLE Violet Braided	30cm	Trape spatula	6.0mm	3/8 135˚	0.14mm	ZE06-14	Sclera and Conjunctiva	**1490**
	30cm	Trape spatula	6.5mm	3/8 135˚	0.20mm	ZE065-20		**2090**
	20cm	Trape spatula **Single-armed**	6.5mm	3/8 135˚	0.20mm	ZE065-20		**2090S**
	30cm	Taper point	6.0mm	3/8 135˚	0.14mm	TE06-14	Conjunctiva for Glaucoma	**1491**

7-0 (0.5metric) Needled Sutures

Suture		Needle					Main Application	Order No.
Description	Length	Image & symbol	Length	Curve	Diam.	Code		
	30cm	Trape spatula	5.5mm	7/16 158˚	0.14mm	ZG055-14	Sclera	**1457**
	30cm	Trape spatula	6.5mm	3/8 135˚	0.20mm	ZE065-20		**2058**
	45cm	Trape spatula	8.0mm	3/8 135˚	0.28mm	ZE08-28		**2855**
	45cm	Reverse cut **Single-armed**	7.0mm	3/8 135˚	0.24mm	RE07-24	Skin	**2455S**
	50cm	Reverse cut **Single-armed**	9.0mm	3/8 135˚	0.24mm	RE09-24		**2457S**
●Nylon Black Mono	30cm	Reverse cut	11.0mm	3/8 135˚	0.24mm	RE11-24		**2463**
	30cm	Lancet	8.0mm	3/8 135˚	0.33mm	PE08-33		**3361**
	45cm	Lancet **Single-armed**	8.0mm	3/8 135˚	0.33mm	PE08-33		**3361S**
	50cm	Lancet	11.0mm	3/8 135˚	0.33mm	PE11-33		**3364**
	50cm	Lancet **Single-armed**	11.0mm	3/8 135˚	0.33mm	PE11-33		**3364S**
	30cm	Cut taper	15.0mm	3/8 135˚	0.33mm	YE15-33	Repositioning of Palpebral furrow	**3365**
●Nylon Clear Mono	30cm	Cut taper	15.0mm	3/8 135˚	0.33mm	YE15-33		**3388**
●Silk Black Braided	45cm	Trape spatula	6.5mm	3/8 135˚	0.20mm	ZE065-20	Sclera and Conjunctiva	**2008**
	30cm	Trape spatula	6.5mm	3/8 135˚	0.20mm	ZE065-20		**2063**
	30cm	Trape spatula **Single-armed**	6.5mm	3/8 135˚	0.20mm	ZE065-20		**2008S**

MANI OPHTHALMIC SUTURES

7-0 (0.5metric) Needled Sutures

Suture		Needle					Main Application	Order No.
Description	Length	Image & symbol	Length	Curve	Diam.	Code		
●Silk Black Braided	45cm	Trape spatula **Single-armed**	8.0mm	1/2 180°	0.20mm	ZH08-20	Sclera and Conjunctiva	**2062S**
	50cm	Lancet **Single-armed**	7.0mm	3/8 135°	0.28mm	PE07-28	Skin	**2860S**
●Silk White Braided	45cm	Trape spatula **Single-armed**	8.0mm	1/2 180°	0.20mm	ZH08-20	Sclera and Conjunctiva	**2068S**
○Polypropylene Blue Mono	45cm	Lancet **Single-armed**	8.0mm	3/8 135°	0.33mm	PE08-33	Skin·Ocular muscles	**3306S**
	45cm	Lancet **Single-armed**	11.0mm	3/8 135°	0.33mm	PE11-33		**3307S**
	30cm	Cut taper	15.0mm	3/8 135°	0.33mm	YE15-33		**3309**
	60cm	Cut taper	9.0mm	3/8 135°	0.33mm	Y5E09-33		**3313**
	50cm	Cut taper **Single-armed**	9.0mm	3/8 135°	0.33mm	Y5E09-33		**3313S**
	60cm	Cut taper	11.0mm	3/8 135°	0.33mm	Y5E11-33		**3314**
	50cm	Cut taper **Single-armed**	11.0mm	3/8 135°	0.33mm	Y5E11-33		**3314S**
●PGA ABSORBABLE Violet Braided	30cm	Trape spatula	6.5mm	3/8 135°	0.20mm	ZE065-20	Sclera and Conjunctiva	**2091**
	30cm	Trape spatula **Single-armed**	6.5mm	3/8 135°	0.20mm	ZE065-20		**2091S**
	45cm	Trape spatula	5.5mm	7/16 158°	0.20mm	ZG055-20		**2092**

6-0 (0.7metric) Needled Sutures

Suture		Needle					Main Application	Order No.
Description	Length	Image & symbol	Length	Curve	Diam.	Code		
●Nylon Black Mono	45cm	Trape spatula	8.0mm	3/8 135°	0.28mm	ZE08-28	Skin·Ocular muscles	**2854**
	45cm	Trape spatula	8.0mm	7/16 158°	0.28mm	ZG08-28		**2859**
	30cm	Reverse cut	13.0mm	3/8 135°	0.28mm	RE13-28	Skin·Ocular muscles	**2808**
	20cm	Reverse cut **Single-armed**	13.0mm	3/8 135°	0.28mm	RE13-28		**2808S**
	30cm	Lancet **Single-armed**	7.0mm	3/8 135°	0.33mm	PE07-33		**3379S**
	50cm	Lancet **Single-armed**	8.0mm	1/2 180°	0.33mm	PH08-33		**3362S**
	45cm	Lancet **Single-armed**	11.0mm	1/2 180°	0.33mm	PH11-33		**3381S**
	50cm	Lancet	11.0mm	3/8 135°	0.33mm	PE11-33		**3382**
	45cm	Lancet **Single-armed**	11.0mm	3/8 135°	0.33mm	PE11-33		**3382S**

TYPE OF MANI SUTURES	USA	EU
MANI SUTURES NYLON	Available	Available
MANI SUTURES SILK / VIRGIN SILK	Available	Available
MANI SUTURES POLYESTER	Available	Available
MANI SUTURES POLYPROPYLENE	**Not Available**	Available
MANI SUTURES PGA	Available	**Not Available**

6-0 (0.7metric) Needled Sutures

Suture		Needle					Main Application	Order No.
Description	Length	Image & symbol	Length	Curve	Diam.	Code		
● Nylon Black Mono	45cm	Lancet **Single-armed**	11.0mm	3/8 135°	0.38mm	PE11-38	Skin·Ocular muscles	**3853S**
	45cm	Lancet **Single-armed**	13.0mm	1/2 180°	0.33mm	PH13-33		**3363S**
	30cm	Cut taper	15.0mm	3/8 135°	0.33mm	YE15-33	Repositioning of Palpebral furrow	**3386**
● Nylon Clear Mono	50cm	Lancet	11.0mm	3/8 135°	0.33mm	PE11-33	Skin·Ocular muscles	**3387**
● Silk Black Braided	45cm	Trape spatula	5.5mm	7/16 158°	0.28mm	ZG055-28	Skin·Ocular muscles	**2804**
	45cm	Trape spatula	6.5mm	3/8 135°	0.28mm	ZE065-28		**2801**
	50cm	Trape spatula **Single-armed**	10.0mm	3/8 135°	0.33mm	ZE10-33		**3354S**
	45cm	Reverse cut	7.0mm	3/8 135°	0.28mm	RE07-28	Skin·Ocular muscles	**2853**
	45cm	Reverse cut	8.0mm	5/16 113°	0.28mm	RI08-28		**2805**
	45cm	Reverse cut	11.0mm	3/8 135°	0.33mm	RE11-33		**3305**
	45cm	Reverse cut **Single-armed**	11.0mm	3/8 135°	0.33mm	RE11-33	Control suture·Skin·Ocular muscles	**3305S**
	55cm	Lancet	10.0mm	3/8 135°	0.33mm	PE 10-33		**3366**
	55cm	Taper point	13.0mm	3/8 135°	0.33mm	TE13-33	Control suture	**3356**
	55cm	Cut taper	13.0mm	3/8 135°	0.33mm	YE13-33		**3353**
	60cm	Cut taper **Single-armed**	14.0mm	3/8 135°	0.38mm	YE14-38		**3850S**
○ Polypropylene Blue Mono	45cm	Lancet **Single-armed**	11.0mm	3/8 135°	0.33mm	PE11-33	Skin·Ocular muscles	**3310S**
	30cm	Cut taper	15.0mm	3/8 135°	0.33mm	YE15-33		**3312**
	60cm	Cut taper	9.0mm	3/8 135°	0.33mm	Y5E09-33		**3316**
	50cm	Cut taper **Single-armed**	9.0mm	3/8 135°	0.33mm	Y5E09-33		**3316S**
	60cm	Cut taper	11.0mm	3/8 135°	0.33mm	Y5E11-33		**3317**
	50cm	Cut taper **Single-armed**	11.0mm	3/8 135°	0.33mm	Y5E11-33		**3317S**
● PGA ABSORBABLE Violet Braided	45cm	Trape spatula	6.5mm	1/4 90°	0.24mm	ZK065-24	Heterotropia·Ocular muscles	**2490**
	45cm	Dia spatula	8.5mm	1/4 90°	0.28mm	XK085-28		**2890**
	30cm	Lancet	11.0mm	3/8 135°	0.33mm	PE11-33	Skin·Ocular muscles	**3393**

MANI OPHTHALMIC SUTURES

5-0 (1.0metric) Needled Sutures

Suture		Needle					Main Application	Order No.
Description	Length	Image & symbol	Length	Curve	Diam.	Code		
●Nylon Black Mono	30cm	Trape spatula	6.0mm	1/4 90°	0.28mm	ZK06-28	Skin·Ocular muscles	**2806**
	45cm	Trape spatula	7.0mm	3/8 135°	0.28mm	ZE07-28		**2865**
	45cm	Trape spatula	8.0mm	3/8 135°	0.28mm	ZE08-28		**2856**
	45cm	Dia spatula	6.0mm	1/4 90°	0.28mm	XK06-28		**2807**
	45cm	Lancet **Single-armed**	11.0mm	1/2 180°	0.33mm	PH11-33	Skin·Ocular muscles	**3383S**
	50cm	Reverse cut	11.0mm	3/8 135°	0.38mm	RE11-38		**3854**
	45cm	Reverse cut **Single-armed**	11.0mm	3/8 135°	0.38mm	RE11-38		**3854S**
●Silk Black Braided	50cm	Reverse cut **Single-armed**	11.0mm	3/8 135°	0.43mm	RE11-43	Control suture·Skin· Ocular muscles	**4350S**
	50cm	Reverse cut **Single-armed**	13.0mm	3/8 135°	0.33mm	RE13-33		**3358S**
	50cm	Lancet	11.0mm	3/8 135°	0.38mm	PE11-38		**3856**
	50cm	Lancet **Single-armed**	11.0mm	3/8 135°	0.38mm	PE11-38		**3856S**
	45cm	Taper point	13.0mm	3/8 135°	0.33mm	TE13-33	Control suture	**3355**
	30cm	Taper point **Single-armed**	13.0mm	3/8 135°	0.33mm	TE13-33		**3355S**
	60cm	Taper point	16.0mm	3/8 135°	0.38mm	TE16-38		**3855**
	30cm	Taper point **Single-armed**	16.0mm	3/8 135°	0.38mm	TE16-38		**3855S**
●Polyester White Braided	45cm	Trape spatula	8.0mm	1/4 90°	0.33mm	ZK08-33	Operations on Vitreous	**3377**
	45cm	Dia spatula	6.0mm	1/4 90°	0.28mm	X1K06-28		**2863**
	45cm	Dia spatula	6.0mm	1/4 90°	0.33mm	XK06-33		**3372**
	45cm	Dia spatula	8.0mm	1/4 90°	0.33mm	XK08-33		**3370**
	45cm	Dia spatula	8.0mm	1/2 180°	0.33mm	XH08-33		**3371**
	75cm	Taper point	10.0mm	3/8 135°	0.33mm	TE10-33		**3380**
●Polyester Green Braided	45cm	Trape spatula	8.0mm	1/4 90°	0.33mm	ZK08-33		**3376**
	45cm	Dia spatula	6.0mm	1/4 90°	0.33mm	XK06-33		**3375**
	45cm	Dia spatula	8.0mm	1/4 90°	0.33mm	XK08-33		**3373**
	45cm	Dia spatula	8.0mm	1/2 180°	0.33mm	XH08-33		**3374**

TYPE OF MANI SUTURES	USA	EU
MANI SUTURES NYLON	Available	Available
MANI SUTURES SILK / VIRGIN SILK	Available	Available
MANI SUTURES POLYESTER	Available	Available
MANI SUTURES POLYPROPYLENE	**Not Available**	Available
MANI SUTURES PGA	Available	**Not Available**

5-0 (1.0metric) Needled Sutures

Suture		Needle					Main Application	Order No.
Description	Length	Image & symbol	Length	Curve	Diam.	Code		
Polyester Green Braided	75cm	Taper point	10.0mm	3/8 135°	0.33mm	TE10-33	Operations on Vitreous	**3378**
PGA ABSORBABLE Violet Braided	45cm	Dia spatula	8.5mm	1/4 90°	0.33mm	XK085-33	Heterotropia·Ocular muscles	**3391**
	30cm	Dia spatula	8.0mm	1/4 90°	0.33mm	XK08-33		**3392**

4-0 (1.5metric) Needled Sutures

Suture		Needle					Main Application	Order No.
Description	Length	Image & symbol	Length	Curve	Diam.	Code		
Silk Black Braided	45cm	Reverse cut	13.0mm	7/16 158°	0.43mm	RG13-43	Control suture	**4300**
	50cm	Reverse cut	13.0mm	3/8 135°	0.43mm	RE13-43		**4351**
	50cm	Reverse cut **Single-armed**	13.0mm	3/8 135°	0.43mm	RE13-43		**4351S**
	55cm	Lancet	13.0mm	3/8 135°	0.43mm	PE13-43		**4359**
	50cm	Lancet **Single-armed**	13.0mm	3/8 135°	0.43mm	PE13-43		**4359S**
	45cm	Taper point	13.0mm	3/8 135°	0.38mm	TE13-38		**3801**
	45cm	Taper point **Single-armed**	13.0mm	3/8 135°	0.38mm	TE13-38		**3801S**
	55cm	Taper point	13.0mm	3/8 135°	0.38mm	TE13-38		**3851**
	45cm	Taper point	16.0mm	3/8 135°	0.38mm	TE16-38		**3861**
	75cm	Taper point	16.0mm	1/2 180°	0.53mm	TH16-53		**5351**
	75cm	Cut taper **Single-armed**	14.0mm	3/8 135°	0.43mm	YE14-43		**4302S**
Silk White Braided	45cm	Taper point	25.0mm	7/16 158°	0.38mm	TG25-38	Skin	**3857**
	60cm	Dia spatula	6.5mm	1/4 90°	0.43mm	XK065-43	Operations on Vitreous	**4360**
Polyester White Braided	45cm	Trape spatula	8.0mm	1/4 90°	0.43mm	ZK08-43		**4356**
	45cm	Dia spatula	6.5mm	1/4 90°	0.43mm	XK065-43		**4357**
	45cm	Dia spatula	8.0mm	1/4 90°	0.43mm	XK08-43		**4352**
Polyester Green Braided	45cm	Trape spatula	8.0mm	1/4 90°	0.43mm	ZK08-43		**4355**
	45cm	Dia spatula	8.0mm	1/4 90°	0.43mm	XK08-43		**4353**

MANI OPHTHALMIC SUTURES

10-0 (0.2metric) Needled Sutures for Secondary Implantation

Suture		Needle						Main Application	Order No.
Description	Length	Image & symbol		Length	Curve	Diam.	Code		
○Polypropylene Blue Mono	30cm	Spatula side cut Trape Spatula		16.0mm	Straight	0.14mm	VS16-14	Pair double-armed	1455P
				4.5mm	7/16 158°	0.14mm	ZG045-14		
	30cm	Spatula side cut Trape Spatula		18.0mm	1/4 90°	0.24mm	VK18-24		1458P
				6.0mm	3/8 135°	0.14mm	ZE06-14		
	30cm	Spatula side cut Trape Spatula		18.0mm	Straight	0.14mm	VS18-14		1460P
				4.5mm	7/16 158°	0.14mm	ZG045-14		
	20cm	Spatula side cut		16.0mm	Straight	0.14mm	VS16-14	Iris Reconstruction / IOL Fixation	1470
	15cm	Spatula side cut		16.0mm	Straight	0.14mm	VS16-14	Needled suture with loop	1486L
	20cm	Spatula side cut		15.0mm	1/4 90°	0.24mm	VK15-24		2451L
	20cm	Spatula side cut		13.0mm	1/4 90°	0.24mm	VK13-24	Iris Reconstruction / IOL Fixation	2450

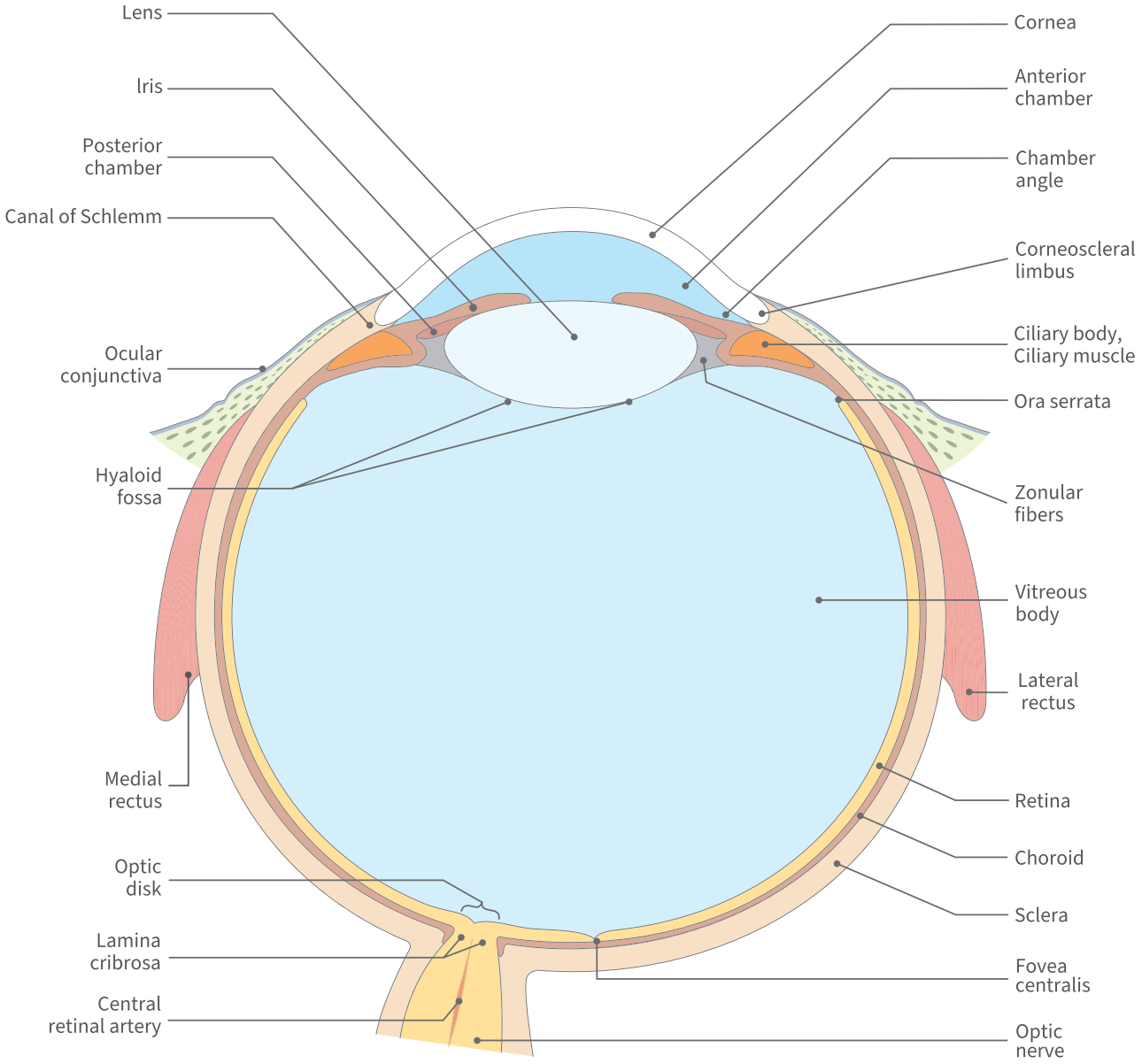
9-0 (0.3metric) Needled Sutures for Secondary Implantation

Suture		Needle						Main Application	Order No.
Description	Length	Image & symbol		Length	Curve	Diam.	Code		
○Polypropylene Blue Mono	30cm	Spatula side cut Trape Spatula		16.0mm	Straight	0.14mm	VS16-14	Pair double-armed	1465P
				4.5mm	7/16 158°	0.14mm	ZG045-14		
	30cm	Spatula side cut Trape Spatula		18.0mm	Straight	0.14mm	VS18-14		1494P
				4.5mm	7/16 158°	0.14mm	ZG045-14		
	20cm	Spatula side cut		15.0mm	1/4 90°	0.24mm	VK15-24	Needled suture with loop	2452L

TYPE OF MANI SUTURES	USA	EU
MANI SUTURES NYLON	Available	Available
MANI SUTURES SILK / VIRGIN SILK	Available	Available
MANI SUTURES POLYESTER	Available	Available
MANI SUTURES POLYPROPYLENE	**Not Available**	Available
MANI SUTURES PGA	Available	**Not Available**

12 pcs. / box

HUMAN EYE IN CROSS SECTION

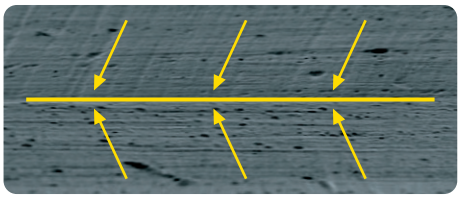


3 Outstanding Features of MANI OPHTHALMIC SUTURES

SHARPNESS

Crosslapped Edge

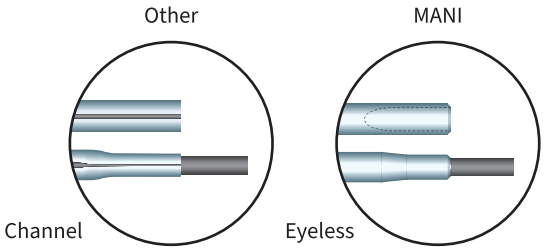
MANI's fine-processing technique has created the crosslapped edge which provides excellent sharpness and consistent quality. (Crosslapped edge: polishing direction is vertical to the edge)



LASER DRILLED END

Atraumatic Needle

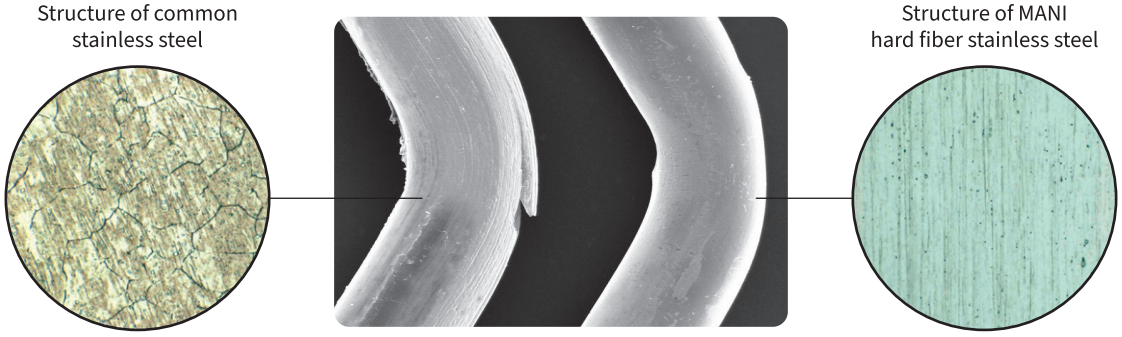
All MANI eyeless needles for Ophthalmic Sutures have a laser drilled end which does not make unnecessary trauma at tissue penetration.



SUPERIOR IN SAFETY

"MANI's original hard fiber stainless steel"

MANI's original hard fiber stainless steel provides reliable strength on the tip to end. With this original material, MANI achieves a needle with high Ductility & high Bending Strength with corrosion resistance.



CE 0197

MANI, INC.

8-3 KIYOHARA INDUSTRIAL PARK, UTSUNOMIYA,
TOCHIGI, 321-3231, JAPAN
Phone: +81-28-667-7565 / E-mail: seg-ovs@mani.inc /
URL: www.mani.co.jp

Note : Design and specifications are subject to change without notice.

iRIS EYE

iRIS EYE GmbH
Lise-Meitner-Str. 21 I 52511 Geilenkirchen I Germany
phone +49 (0) 2451 - 90 70 97 0
fax +49 (0) 2451 - 90 70 97 5
info@iriseye.de I www.iriseye.de