

## Optilene<sup>®</sup>

### A SMOOTH MONOFILAMENT SUTURE FOR CARDIOVASCULAR SURGERY

Non-absorbable monofilament suture  
made of polypropylene and polyethylene

# Optilene®

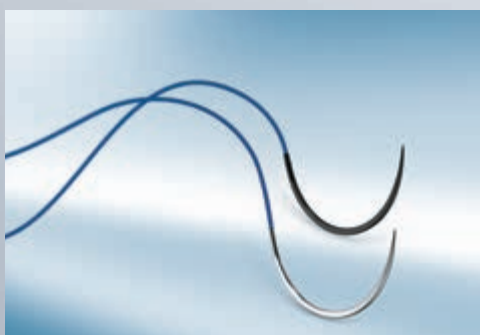
## A SMOOTH MONOFILAMENT SUTURE FOR CARDIOVASCULAR SURGERY



An increasingly aging population combined with more complex and diffuse cardiac diseases result in more challenging cardiac cases in daily practice. For that reason B. Braun is committed to providing you with the high quality and innovative surgical products sharing with you the same passion for Cardiovascular Surgery.



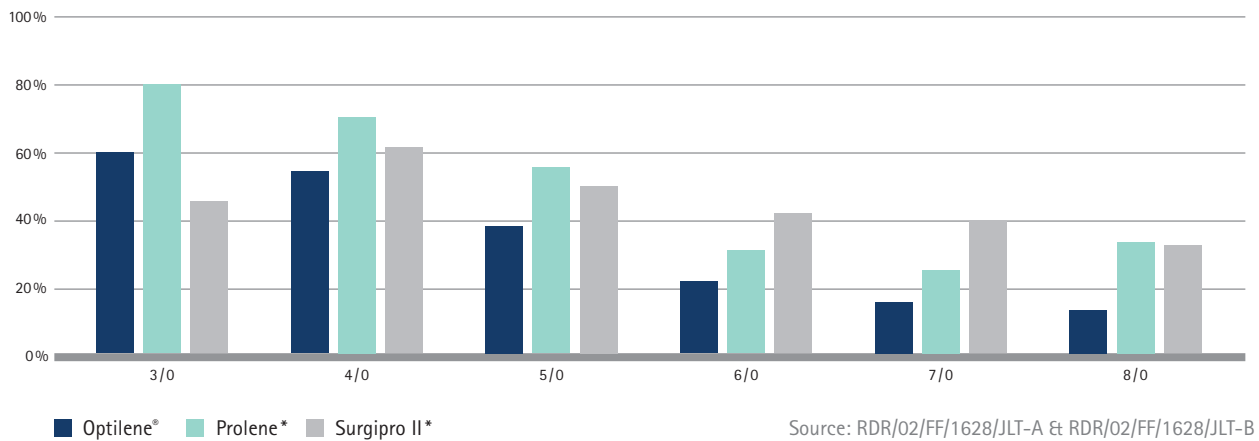
Optilene® is a non-absorbable monofilament suture made of polypropylene and polyethylene which has been specifically designed for Cardiovascular Surgery.



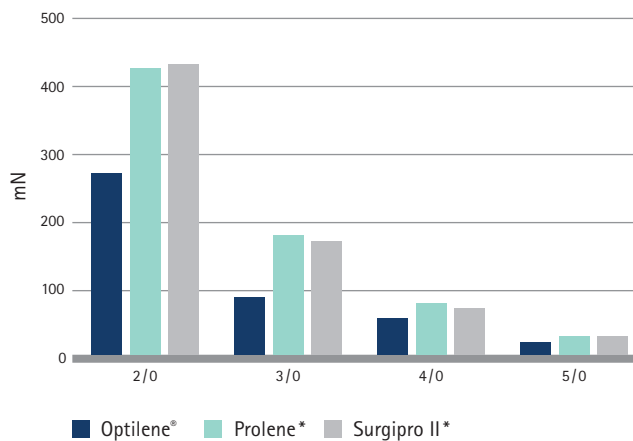
### PRECISION AND EASE OF USE, OUR TOP PRIORITIES

- Superior smoothness and smaller tissue drag than polypropylene sutures.<sup>1-3, 12</sup>
- Controlled knot run-down and proven reliable tensile strength.<sup>4-9</sup>
- Good handling endorsed by cardiothoracic surgeons.<sup>12</sup>
- Lower memory effect than the market standard and high thread "pig-tailing" resistance.<sup>4, 5, 10, 11, 28</sup>
- Reengineered pliability for good touch and controlled suture elongation in microsurgery sizes.<sup>4, 5, 7</sup>
- Improved thread visibility for enhanced visual comfort.<sup>13, 14</sup>

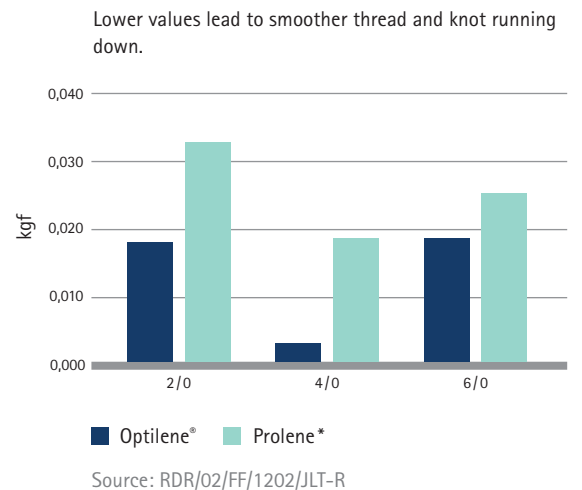
## MEMORY EFFECT



## STIFFNESS



## KNOT RUNNING STRENGTH



Superior smoothness and smaller tissue drag than polypropylene sutures<sup>23-26</sup>



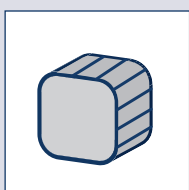
Lower memory effect than the market standard and high thread "pig-tailing" resistance<sup>20-22</sup>

\*The product trademark "Prolene" is a trademark of Ethicon and the product trademark "Surgipro II" is a trademark of Medtronic.

# Optilene®

A SMOOTH MONOFILAMENT SUTURE FOR CARDIOVASCULAR SURGERY

## Optilene® NEEDLES



**Semi square body design**  
Improves bending strength resistance.

Layer of silicon coating



USP

- 2
- 1
- 0
- 2/0
- 3/0
- 4/0
- 5/0
- 6/0
- 7/0
- 8/0
- 9/0
- 10/0

## BOTH RANGES AND ALL USP SIZES FEATURE...

### Excellent penetration

■ Taper point:  
Designed for an easy penetration of soft tissues.<sup>15</sup>



■ Short cutting point:  
Designed to improve penetration through calcified tissues and increase bending strength for cardiovascular indications.<sup>15</sup>



### Range of fine needles for a lower traumaticity

Fine needle versions, labelled as "f", which offer a reduction of up to 38 % in the needle-to-thread ratio compared to the standard needles.<sup>16</sup>



### Reinforced needle

Reinforced versions, labelled as "s", also available.

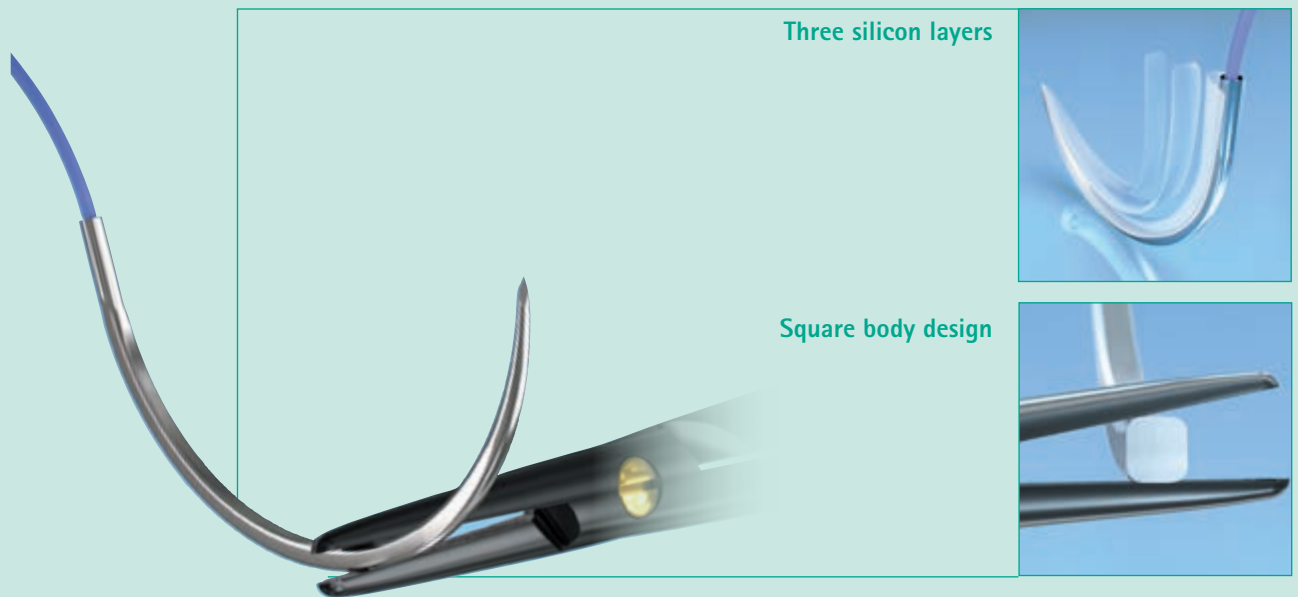
## A NEW NEEDLE GENERATION FOR CARDIOTHORACIC SURGERY

■ Enhanced stability of the needle in the grasp of the needle holder y†, 17, 18

■ Improved successive penetration after repeated stitches y‡. 17-19

### USP\*

- 2
- 1
- 0
- 2/0
- 3/0
- 4/0
- 5/0
- 6/0
- 7/0
- 8/0
- 9/0
- 10/0



\* When needle diameter is up to 0,30 mm

\* Ratio of the areas

‡ In comparison with standard needles. 17-19

† In comparison with Ethicon Multipass needles.

‡ In comparison with standard (steel colour) needles.

### Low reflection

Black and silver versions available. Black needles are specially designed to improve visibility of the needles during the surgical procedure. 15



# OptiCABG

## ASSESSMENT OF THE PERFORMANCE OF OPTILENE FOR CABG



### AIM OF THE STUDY

Evaluate the safety and efficacy of Optilene for CABG surgery in comparison to previously published data.



### HYPOTHESIS

If Optilene's results match those generated in a meta-analysis performed by Nalysnyk et al.\*, it can be branded as safe and effective for CABG surgery.



### PRIMARY ENDPOINT

Incidence of adverse cardiac events like stroke, myocardial infarction, death, renal failure, gastrointestinal bleeding... until day of discharge.



### SECONDARY ENDPOINTS

Several parameters were assessed and classified in two categories: safety and efficacy. Among them are listed:

- Handling of the suture material.
- Incidence of adverse events up to 30 days after discharge.
- Improvement of quality of life and employment status until 3 months postoperatively.
- Death rate until 30 days postoperatively.



### FOLLOW-UP VISITS

Screening → Surgery → Day of discharge → 30 days ± 10 days postop. → 3 months ± 2 weeks postop.

### PARTICIPATING HOSPITALS

- GERMANY – Robert-Bosch-Krankenhaus (Stuttgart)
- SPAIN – Hospital de la Santa Creu i Sant Pau (Barcelona)
- ITALY – Ospedale Luigi Sacco (Milano)



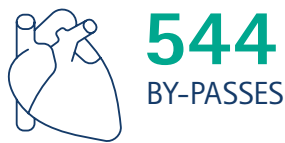
READ THE COMPLETE  
OPTICABG STUDY ONLINE:

<https://bbraun.info/opticabg>

\* L. Nalysnyk, K. Fahrbach, M.W. Reynolds, S.Z. Zhao, S. Ross, Adverse events in coronary artery bypass graft (CABG) trials: a systematic review and analysis, Heart 89 (7) (2003 Jul) 767–772 is a review and analysis of CABG studies published from 1990 to 2001 designed to quantify the incidence of major adverse events occurring in hospital or within 30 days after surgery.

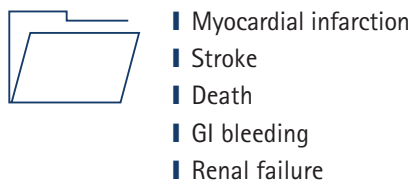
# OPTICABG STUDY

## THE SURGERIES AT A GLANCE



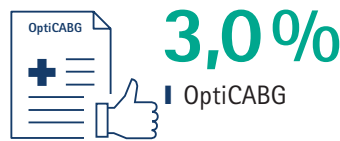
## OUTCOME

### CABG ADVERSE EVENTS ASSESSED



### FACE TO FACE

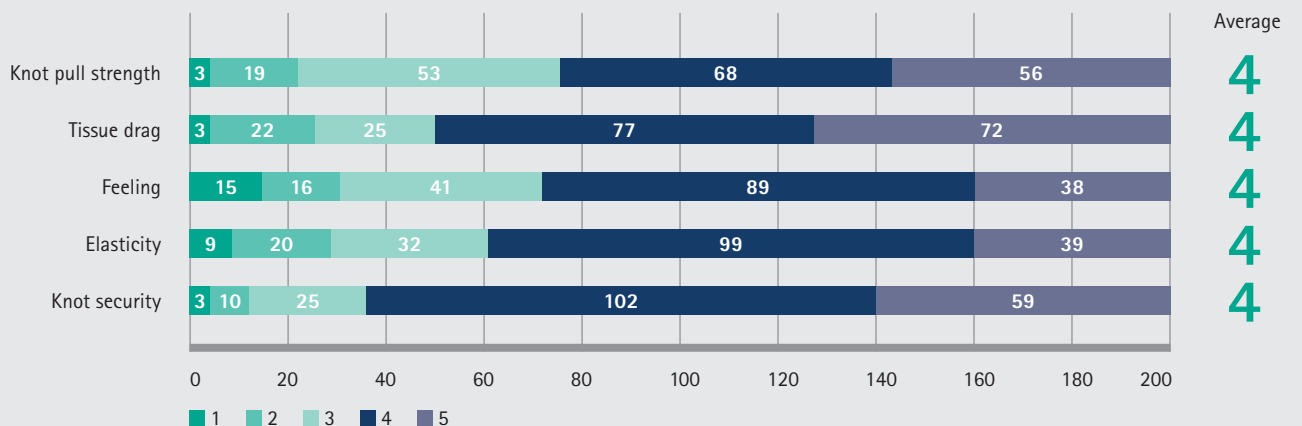
Incidence of CABG adverse events up to day of discharge



Optilene's adverse events rate is lower than the reference rate and can therefore be regarded as a safe and efficient suture for CABG surgery

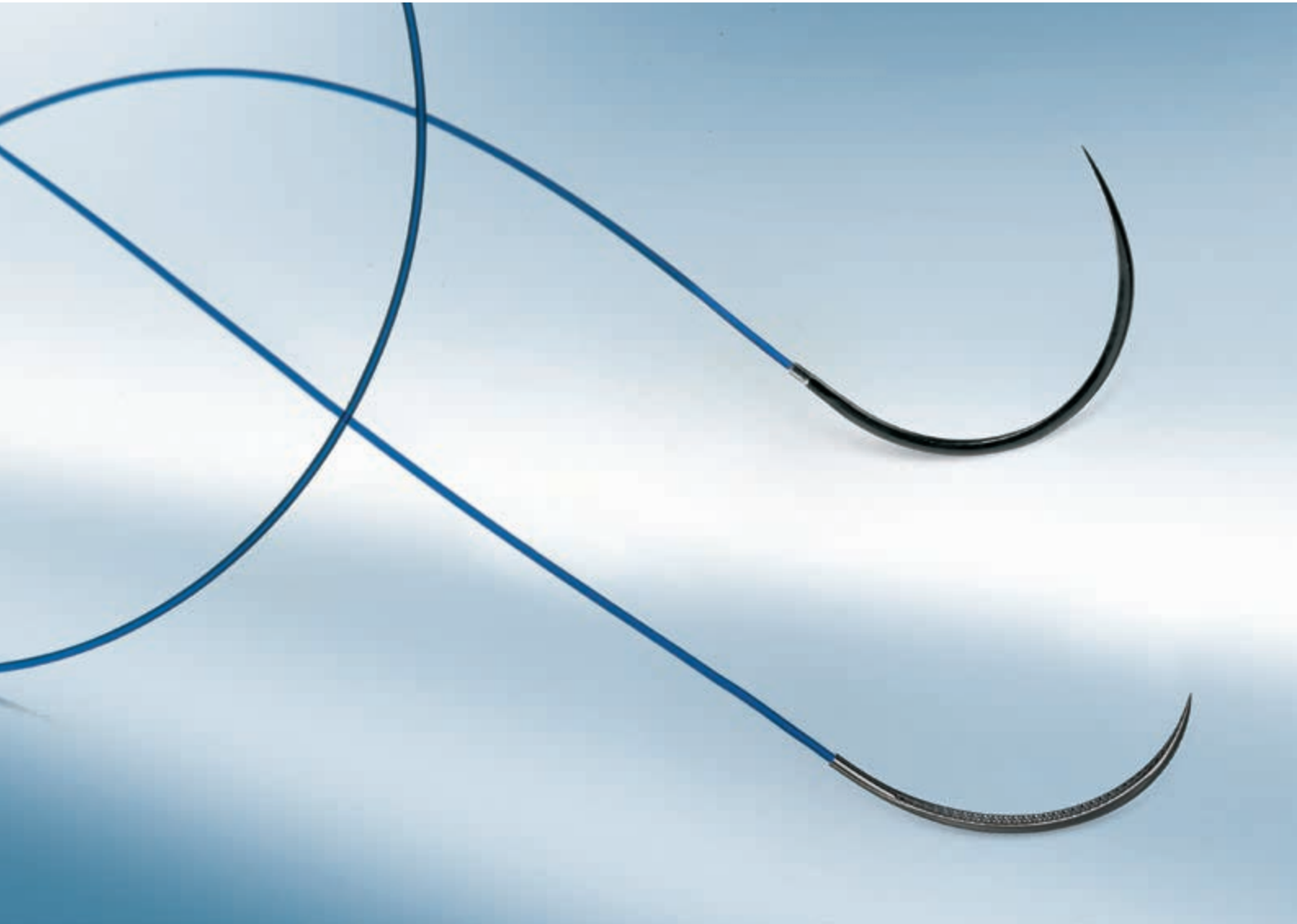
## HANDLING OF THE SUTURE

Assessed by surgeons using a five-point scale (1 worst – 5 best)



# Optilene®

A SMOOTH MONOFILAMENT SUTURE FOR CARDIOVASCULAR SURGERY



## REFERENCES

- 1 Data on file: RTR/02/FF/1202/JLT-
- 2 Data on file: PTR/02/FF/1202/JLT-R
- 3 Data on file: PTR/02/FF/1202/JLT-G
- 4 Data on file: RDR/DID/MON/MAU/16111
- 5 Data on file: RDR/DID/MON/MAU/15191
- 6 Data on file: PTR/02/FF/1202/JLT-B
- 7 Data on file: RTR/02/FF/1202/JLT-O
- 8 Data on file: RTR/02/FF/1202/JLT-R
- 9 Data on file: PTR/02/FF/1202/JLT-G
- 10 Data on file: RDR/02/FF/1628/JLT-A
- 11 Data on file: RDR/02/FF/1628/JLT-B
- 12 OptiCABG study: Ursulescu A, Baumann P, Ferrer MT, Contino M, Romagnoni C, Antona C, Padró Fernández JM. Optilene, a new non-absorbable monofilament is safe and effective for CABG anastomosis. OPTICABG - A prospective international, multi-centric, cohort study. *Ann Med Surg (Lond)*. (2018) 35 (13-19)
- 13 Data on file: PTR/22/1014/MAU
- 14 Data on file: RDR/DID/MON/LFU/18084
- 15 Data on file: PTR/22/13088/FLB.v2
- 16 Data on file: RDR-DID-MON-LCR-19040
- 17 Data on file: RDR-DID-MON-LCR-18170
- 18 Data on file: RDR-DID-MON-AMG-17152
- 19 Data on file: RDR-DID-MON-LCR-19068
- 20 Data on file: RDR/DID/MON/MAU/16111
- 21 Data on file: RDR/02/FF/1628/JLT-A
- 22 Data on file: RDR/02/FF/1628/JLT-B
- 23 Data on file: RTR/02/FF/1202/JLT-
- 24 Data on file: PTR/02/FF/1202/JLT-R
- 25 Data on file: PTR/02/FF/1202/JLT-G
- 26 Results of OPTICABG Study - Handling of the suture material.
- 27 Data on file: PTR/02/FF/1202/JLT-G
- 28 Data on file: RDR/DID/MON/MAU/15191



## PRODUCT OVERVIEW





















# Optilene®

|                      |   |
|----------------------|---|
| Structure            | Monofilament  |
| Colour               | Blue  |
| Chemical composition | Polypropylene and polyethylene  |
| Coating              | Uncoated  |
| Origin               | Synthetic   |
| Sizes                | USP 10/0 (0.2 metric) to USP 2 (5 metric)   |
| Type of absorption   | Non-absorbable  |
| Indication           | cardiovascular, neurosurgery, ophthalmology, microsurgery, skin closure and general surgery |
| Sterilisation        | Ethylene oxide  |



# Optilene®

## NEEDLE-THREAD COMBINATIONS


































| Needle<br>length<br>mm  | Thread<br>length cm<br>colour  | USP (metric) |              |              |            |              |            |            |            |  |
|---|--|--------------|--------------|--------------|------------|--------------|------------|------------|------------|--|
|   |  | 8/0<br>(0.4) | 7/0<br>(0.5) | 6/0<br>(0.7) | 5/0<br>(1) | 4/0<br>(1.5) | 3/0<br>(2) | 2/0<br>(3) | 0<br>(3.5) |  |
| 3/8 circle round bodied needle  |  |              |              |              |            |              |            |            |            |  |
|  <b>2xDR 6</b><br>      |  60<br>blue   | C3095669     |              |              |            |              |            |            |            |  |
|  <b>2xDR 6b</b><br>     |  45<br>blue   | C3096111     |              |              |            |              |            |            |            |  |
|  <b>DR 6b</b><br>       |  45<br>blue   | G3096116     |              |              |            |              |            |            |            |  |
| <br>                 |  60<br>blue   | C3096127     |              |              |            |              |            |            |            |  |
|   | 2 x 60<br>blue   | G3096105     |              |              |            |              |            |            |            |  |
|   |   75<br>blue | C3096152     |              |              |            |              |            |            |            |  |
|  <b>2xDR 8b</b><br> |  75<br>blue   | C3096141     |              |              |            |              |            |            |            |  |
|   |  60<br>blue   | C3096129     |              |              |            |              |            |            |            |  |
| 3/8 circle round bodied needle  |  |              |              |              |            |              |            |            |            |  |
|    |  75<br>blue   |              |              |              | C3097913   |              |            |            |            |  |
|   |  45<br>blue   |              |              | C3097615     |            |              |            |            |            |  |
|    |  75<br>blue   |              |              | C3097542     |            |              |            |            |            |  |
| <br>                |  75<br>blue   |              |              | C3097915     |            |              |            |            |            |  |
|   | 2 x 75<br>blue   |              |              | G3097811     |            |              |            |            |            |  |
|   |  60<br>blue   |              |              | C3097714     |            |              |            |            |            |  |
|    |  75<br>blue   |              |              | C3097541     |            |              |            |            |            |  |
| <br>                |  75<br>blue   |              |              | C3097914     |            |              |            |            |            |  |
|   | 2 x 75<br>blue   |              |              | G3097810     |            |              |            |            |            |  |
|   |  90<br>blue   |              |              | C3097799     |            |              |            |            |            |  |
|    |  90<br>blue   |              |              |              | C3097840   |              |            |            |            |  |








































|                   |                   |                   |                  |
|-------------------|-------------------|-------------------|------------------|
| C Box of 36 units | B Box of 24 units | G Box of 12 units | M Box of 6 units |
|-------------------|-------------------|-------------------|------------------|

| Needle  |   | Thread   | USP (metric) |           |           |           |         |           |         |         |         |  |
|---|---|--|--------------|-----------|-----------|-----------|---------|-----------|---------|---------|---------|--|
| length mm   | diameter microns  |  | length cm    | 8/0 (0.4) | 7/0 (0.5) | 6/0 (0.7) | 5/0 (1) | 4/0 (1.5) | 3/0 (2) | 2/0 (3) | 0 (3.5) |  |
| 3/8 circle round bodied needle  |   |  |              |           |           |           |         |           |         |         |         |  |
|    | <b>2xDR 10b</b><br>    | <br>   | 60           |           |           | C3096123  |         |           |         |         |         |  |
|   |   |  | 75           |           |           | C3096148  |         |           |         |         |         |  |
|   |   |  | blue         |           |           |           |         |           |         |         |         |  |
|    | <b>DR 10b</b><br>      | <br>200µ  | 75           |           |           | G3096169  |         |           |         |         |         |  |
| 3/8 circle round bodied needle  |   |  |              |           |           |           |         |           |         |         |         |  |
|  | <b>2xDR 10b</b><br>  | <br><br><br>200µ   | 60           |           |           | C3097816  |         |           |         |         |         |  |
|   |   |  | 75           |           |           | C3097843  |         |           |         |         |         |  |
|   |   |  | blue         |           |           |           |         |           |         |         |         |  |
|   |   |  | 60           |           |           | C3096125  |         |           |         |         |         |  |
|   |   |  | 75           |           |           | C3096145  |         |           |         |         |         |  |
|   |   |   | 2 x 75       |           |           | G3096108  |         |           |         |         |         |  |
|   |   |  | blue         |           |           |           |         |           |         |         |         |  |
|  | <b>DR 10b</b><br>    | <br>200µ  | 75           |           |           | G3096167  |         |           |         |         |         |  |
| 3/8 circle round bodied needle  |   |  |              |           |           |           |         |           |         |         |         |  |
|  | <b>2xDR 10b</b><br>  | <br><br>  | 45           |           |           | C3097164  |         |           |         |         |         |  |
|   |   |  | 60           |           |           | C3097062  |         |           |         |         |         |  |
|   |   |  | 75           |           |           | C3097812  |         |           |         |         |         |  |
|   |   |  | blue         |           |           |           |         |           |         |         |         |  |
|  | <b>2xDR 10f</b><br>  | <br><br><br> | 75           |           |           | C3097430  |         |           |         |         |         |  |
|   |   |  | 45           |           |           | C3097134  |         |           |         |         |         |  |
|   |   |  | 60           |           |           | C3097135  |         |           |         |         |         |  |
|   |   |  | 75           |           |           | C3097136  |         |           |         |         |         |  |
|   |   |  | blue         |           |           |           |         |           |         |         |         |  |
|  | <b>2xDR 10fb</b><br> |   | 75           |           |           | C3097838  |         |           |         |         |         |  |
|   |   |  | blue         |           |           |           |         |           |         |         |         |  |
|  | <b>DR 12</b><br>     |   | 75           |           |           | G3097529  |         |           |         |         |         |  |
|   |   |  | blue         |           |           |           |         |           |         |         |         |  |
| 3/8 circle round bodied needle  |   |  |              |           |           |           |         |           |         |         |         |  |
|  | <b>2xDR 13</b><br>   |   | 75           |           |           |           |         | C3095908  |         |         |         |  |
|   |   |  | blue         |           |           |           |         |           |         |         |         |  |
|  | <b>DR 13</b><br>     |   | 75           |           |           |           |         | C3095932  |         |         |         |  |
|   |   |  | blue         |           |           |           |         |           |         |         |         |  |

# Optilene®



## NEEDLE-THREAD COMBINATIONS


| Needle<br>length<br>mm  | Thread<br>length cm<br>colour  | USP (metric)   |              |              |            |              |            |            |            |
|---|--|--|--------------|--------------|------------|--------------|------------|------------|------------|
|   |  | 8/0<br>(0.4)   | 7/0<br>(0.5) | 6/0<br>(0.7) | 5/0<br>(1) | 4/0<br>(1.5) | 3/0<br>(2) | 2/0<br>(3) | 0<br>(3.5) |
| <b>3/8 circle round bodied needle</b>   |  |  |              |              |            |              |            |            |            |
|    |  45               |  |              |              | C3098887   |              |            |            |            |
|   |  60<br>blue       |  |              |              | C3097896   |              |            |            |            |
|   |  75<br>blue       |  |              |              | C3095687   |              |            |            |            |
|   |  75<br>blue       |  |              |              | C3097907   |              |            |            |            |
|    |  75<br>blue       |  |              |              | C3097931   |              |            |            |            |
| <b>3/8 circle round bodied needle</b>   |  |  |              |              |            |              |            |            |            |
|  |  90<br>blue     |  |              |              | C3095661   |              |            |            |            |
|   |  90<br>blue     |  |              |              | C3097939   |              |            |            |            |
|   |  45<br>blue     |  |              | C3098886     |            |              |            |            |            |
|   |  75<br>blue     |  |              | C3095667     |            |              |            |            |            |
|  |  75<br>blue     |  |              | C3097906     |            |              |            |            |            |
|  |  75<br>blue     |  |              | C3098930     |            |              |            |            |            |
|  |  90             |  |              |              | C3097938   |              |            |            |            |
|   |  45<br>blue     |  | C3098885     |              |            |              |            |            |            |
|   |  75<br>blue     |  | C3097905     |              |            |              |            |            |            |
|  |  75             |  |              |              | C3097547   |              |            |            |            |
|   |  60             |  |              | C3097926     |            |              |            |            |            |
|   |  75             |  |              | C3097191     |            |              |            |            |            |
|   |  90<br>blue     |  |              | C3097839     |            |              |            |            |            |
| <b>3/8 circle round bodied needle</b>   |  |  |              |              |            |              |            |            |            |
|  |  90<br>blue     |  |              |              | C3095021   |              |            |            |            |
|   |  2 x 90<br>blue |  |              |              | G3095009   |              |            |            |            |
|   |  75<br>blue     |  |              | C3097026     |            |              |            |            |            |
|  |  |  |              |              |            |              |            |            |            |
| <b>3/8 circle round bodied needle</b>   |  |  |              |              |            |              |            |            |            |
|  |                 |  90<br>blue |              |              | C3090716   | C3090717     |            |            |            |

| Needle<br>length<br>mm  | Thread<br>length cm<br>colour  | USP (metric) |              |              |            |              |            |            |            |
|---|--|--------------|--------------|--------------|------------|--------------|------------|------------|------------|
|   |  | 8/0<br>(0.4) | 7/0<br>(0.5) | 6/0<br>(0.7) | 5/0<br>(1) | 4/0<br>(1.5) | 3/0<br>(2) | 2/0<br>(3) | 0<br>(3.5) |
| 3/8 circle round bodied needle  |  |              |              |              |            |              |            |            |            |
|  DR 18<br>        |  75<br>blue       |              |              |              |            |              |            | C3095057   |            |
|  2xDR 18<br>      |  90<br>blue       |              |              |              |            |              |            | C3095921   |            |
|  DR 18<br>        |  75<br>blue       |              |              |              |            |              | C3090120   |            |            |
|    |  75               |              |              |              |            |              | C3090720   |            |            |
|   |  90              |              |              |              |            |              | C3090920   |            |            |
|   |  2 x 90<br>blue |              |              |              |            |              | G3090659   |            |            |
|               |  90<br>blue     |              |              |              |            |              | C3095683   |            |            |
|  DR 18<br>    |  75<br>blue     |              |              |              |            | C3090119     |            |            |            |
|  2xDR 18<br>  |  75             |              |              |              |            | C3090719     |            |            |            |
|   |  90<br>blue     |              |              |              |            | C3090919     |            |            |            |
|  2xDR 18b<br> |  120<br>blue    |              |              |              |            |              | C3095656   |            |            |
|  2xDR 22<br>  |  75             |              |              |              |            |              | C3090722   | C3090723   |            |
|   |  90<br>blue     |              |              |              |            |              | C3090822   |            |            |
|  2xDR 26<br>  |  75<br>blue     |              |              |              |            |              |            | C3090725   |            |
|  DR 26<br>    |  75<br>blue     |              |              |              |            |              |            | C3090132   |            |
| 3/8 circle round bodied needle  |  |              |              |              |            |              |            |            |            |
|  DR 32<br>    |  75<br>blue     |              |              |              |            |              |            | C3090083   |            |

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## NEEDLE-THREAD COMBINATIONS

| Needle<br>length<br>mm   | Thread<br>length cm<br>colour   | USP (metric) |              |              |            |              |            |            |            |
|--|---|--------------|--------------|--------------|------------|--------------|------------|------------|------------|
|  |   | 8/0<br>(0.4) | 7/0<br>(0.5) | 6/0<br>(0.7) | 5/0<br>(1) | 4/0<br>(1.5) | 3/0<br>(2) | 2/0<br>(3) | 0<br>(3.5) |
| <b>3/8 circle round bodied needle</b>  |   |              |              |              |            |              |            |            |            |
| <b>2xDR 6</b><br>     |    | 60           |              |              | C3098110   |              |            |            |            |
|  |    | 45           | C3097880     |              |            |              |            |            |            |
|  |    | 60           | C3097712     |              |            |              |            |            |            |
|  |    | 75           | C3097980     |              |            |              |            |            |            |
|  | blue  |              |              |              |            |              |            |            |            |
| <b>2xDR 6b</b><br>    |    | 45           | C3097857     |              |            |              |            |            |            |
|  |    | 60           | C3097835     |              |            |              |            |            |            |
|  |    | 75           | C3097834     |              |            |              |            |            |            |
|  | blue  |              |              |              |            |              |            |            |            |
| <b>2xDR 8</b><br>   |    | 75           |              |              | C3097886   |              |            |            |            |
|  |   | 45           | C3097685     |              |            |              |            |            |            |
|  |  | 60           | C3097888     |              |            |              |            |            |            |
|  |  | 75           | C3097885     |              |            |              |            |            |            |
|  | blue  |              |              |              |            |              |            |            |            |
|  |  | 2 x 75       |              | G3097080     |            |              |            |            |            |
|  | blue  |              |              |              |            |              |            |            |            |
|  |  | 75           | C3097004     |              |            |              |            |            |            |
|  | blue  |              |              |              |            |              |            |            |            |
| <b>2xDR 8b</b><br>  |  | 60           |              |              | C3097819   |              |            |            |            |
|  |  | 75           |              |              | C3097823   |              |            |            |            |
|  |  | 60           | C3097817     |              |            |              |            |            |            |
|  |  | 75           | C3097822     |              |            |              |            |            |            |
|  | blue  |              |              |              |            |              |            |            |            |
| <b>2xDR 8f</b><br>  |  | 60           |              |              | C3097088   |              |            |            |            |
|  |  | 2 x 75       |              |              | G3097130   |              |            |            |            |
|  | blue  |              |              |              |            |              |            |            |            |
|  |  | 60           | C3097105     |              |            |              |            |            |            |
|  | blue  |              |              |              |            |              |            |            |            |
| <b>2xDR 8fb</b><br> |  | 60           | C3097829     |              |            |              |            |            |            |
|  | blue  |              |              |              |            |              |            |            |            |
| <b>1/2 circle round bodied needle</b>  |   |              |              |              |            |              |            |            |            |
| <b>2xHR 10</b><br>  |  | 60           |              |              |            | C3090866     |            |            |            |
|  |  | 75           |              |              |            | C3090869     |            |            |            |
|  | blue  |              |              |              |            |              |            |            |            |
| <b>1/2 circle round bodied needle</b>  |   |              |              |              |            |              |            |            |            |
| <b>HR 10</b><br>    |  | 75           |              |              | C3097402   |              |            |            |            |
|  | blue  |              |              |              |            |              |            |            |            |
| <b>2xHR 10</b><br>  |  | 75           |              |              |            | C3097868     |            |            |            |
|  |  | 75           |              |              | C3097867   |              |            |            |            |
|  | blue  |              |              |              |            |              |            |            |            |







































| Needle<br>length<br>mm   | Thread<br>length cm<br>colour  | USP (metric) |              |              |                      |                      |            |            |            |
|--|--|--------------|--------------|--------------|----------------------|----------------------|------------|------------|------------|
|  |  | 8/0<br>(0.4) | 7/0<br>(0.5) | 6/0<br>(0.7) | 5/0<br>(1)           | 4/0<br>(1.5)         | 3/0<br>(2) | 2/0<br>(3) | 0<br>(3.5) |
| 1/2 circle round bodied needle   |  |              |              |              |                      |                      |            |            |            |
|  <b>2xHR 10f</b><br>     |  60<br>blue   |              |              |              | C3096015             | C3096014             |            |            |            |
| 1/2 circle round bodied needle   |  |              |              |              |                      |                      |            |            |            |
| <b>HR 10f</b><br>   |  75<br>blue   |              |              |              | C3097861             |                      |            |            |            |
| <b>2xHR 10f</b><br>  |  2 x 75<br>blue   |              |              |              | G3097858             |                      |            |            |            |
| 1/2 circle round bodied needle   |  |              |              |              |                      |                      |            |            |            |
|  <b>2xHR 13</b><br>  |  90<br>blue   |              |              |              |                      |                      | C3090750   |            |            |
|  <b>HR 13</b><br>    |  75<br>blue   |              |              |              |                      | C3090500             |            |            |            |
|  <b>2xHR 13</b><br>  |  75<br> 45<br>blue |              |              |              |                      | C3090954<br>C3090839 |            |            |            |
|  <b>HR 13</b><br>    |  75<br>blue   |              |              |              | C3090499             |                      |            |            |            |
|  <b>2xHR 13</b><br>  |  75<br> 45<br>blue |              |              |              | C3090953<br>C3090853 |                      |            |            |            |
|  <b>2xHR 13b</b><br> |  75<br>blue   |              |              |              | C3095448             | C3095449             |            |            |            |
|  <b>2xHR 13f</b><br> |  75<br>blue   |              |              |              |                      | C3095124             |            |            |            |
|  <b>HR 13f</b><br>   |  75<br>blue   |              |              |              |                      | C3095349             |            |            |            |
|  <b>2xHR 13f</b><br> | 90<br>blue   |              |              |              |                      | C3095792             |            |            |            |
|  |  75<br>blue   |              |              |              | C3097123             |                      |            |            |            |

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## NEEDLE-THREAD COMBINATIONS







































| Needle<br>length<br>mm  | Thread<br>length cm<br>colour   | USP (metric) |              |              |            |              |            |            |            |  |
|---|---|--------------|--------------|--------------|------------|--------------|------------|------------|------------|--|
|   |   | 8/0<br>(0.4) | 7/0<br>(0.5) | 6/0<br>(0.7) | 5/0<br>(1) | 4/0<br>(1.5) | 3/0<br>(2) | 2/0<br>(3) | 0<br>(3.5) |  |
| 1/2 circle round bodied needle  |   |              |              |              |            |              |            |            |            |  |
| 2xHR 13ff<br>  | <br>75<br>75<br>blue |              |              | C3097341     | C3097346   |              |            |            |            |  |
| 1/2 circle round bodied needle  |   |              |              |              |            |              |            |            |            |  |
|  HR 17<br>        | <br>75<br>blue       |              |              |              |            |              |            | C3090014   |            |  |
|  2xHR 17<br>    | <br>90<br>blue      |              |              |              |            |              |            | C3090903   |            |  |
|  HR 17<br>    | <br>75<br>blue     |              |              |              |            |              | C3090013   |            |            |  |
|  2xHR 17<br>  | <br>75<br>blue     |              |              |              |            |              | C3090503   |            |            |  |
|   | <br>90<br>blue     |              |              |              |            |              | C3090902   |            |            |  |
|   | <br>90<br>blue     |              |              |              |            |              | C3095327   |            |            |  |
|  2xHR 17<br>  | <br>120<br>blue    |              |              |              |            |              | C3090904   |            |            |  |
|  HR 17<br>    | <br>75<br>blue     |              |              |              |            | C3090012     |            |            |            |  |
|  2xHR 17<br>  | <br>75<br>blue     |              |              |              |            | C3090501     |            |            |            |  |
|   | <br>90<br>blue     |              |              | C3090898     | C3090901   |              |            |            |            |  |
|  2xHR 17b<br> | <br>90<br>blue     |              |              |              |            | C3095492     | C3095493   | C3095494   |            |  |
|  2xHR 17f<br> | <br>90<br>blue     |              |              |              |            |              | C3096001   |            |            |  |
|   | <br>2 x 90<br>blue |              |              |              |            |              | G3095521   |            |            |  |
|  2xHR 20<br>  | <br>90<br>blue     |              |              |              |            |              | C3090338   |            |            |  |
|  2xHR 22<br>  | <br>90<br>blue     |              |              |              |            |              |            |            | C3090978   |  |









































| Needle<br>length<br>mm  | Thread<br>length cm<br>colour  | USP (metric) |              |              |            |              |                      |                      |            |
|---|--|--------------|--------------|--------------|------------|--------------|----------------------|----------------------|------------|
|   |  | 8/0<br>(0.4) | 7/0<br>(0.5) | 6/0<br>(0.7) | 5/0<br>(1) | 4/0<br>(1.5) | 3/0<br>(2)           | 2/0<br>(3)           | 0<br>(3.5) |
| 1/2 circle round bodied needle  |  |              |              |              |            |              |                      |                      |            |
|  HR 22<br>        |  75<br>blue   |              |              |              |            |              |                      | C3090030             |            |
|  2xHR 22<br>      |  90<br> 75<br>blue   |              |              |              |            |              |                      | C3090977<br>C3090860 |            |
|  HR 22<br>        |  75<br>blue   |              |              |              |            |              | C3090029             |                      |            |
|  2xHR 22<br>  |  75<br> 90<br>blue  |              |              |              |            |              | C3090863<br>C3090976 |                      |            |
|   |  90<br>blue   |              |              |              |            |              | C3090979             |                      |            |
|   |  90<br>blue   |              |              |              |            |              | C3095336             |                      |            |
|   |  120<br> 90<br>blue  |              |              |              |            | C3090975     | C3090876             |                      |            |
|   |  75<br> 90<br>blue   |              |              |              |            |              | C3095512             | C3095508<br>C3095513 |            |
|  2xHR 22f<br> |  75<br> 90<br> 75<br> 90<br>blue |              |              |              |            |              | C3096009<br>C3096010 | C3096011<br>C3096008 |            |
| Needle<br>length<br>mm  | Thread<br>length cm<br>colour  | USP (metric) |              |              |            |              |                      |                      |            |
|   |  | 5/0<br>(1)   | 4/0<br>(1.5) | 3/0<br>(2)   | 2/0<br>(3) | 0<br>(3.5)   | 1<br>(4)             | 2<br>(5)             | 3<br>(6)   |
|  HR 26<br>    |  75<br> 120<br> 75<br> blue      |              |              |              |            | C3090042     | C3090043<br>C3095712 |                      |            |
|  2xHR 26<br>  |  90<br>blue   |              |              |              |            | C3090909     |                      |                      |            |
|  HR 26<br>    |  120<br>blue  |              |              |              |            | C3090444     |                      |                      |            |

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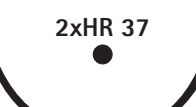




## NEEDLE-THREAD COMBINATIONS





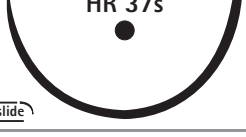



| Needle<br>length<br>mm   | Thread<br>length cm<br>colour | USP (metric) |              |            |            |            |          |          |          |
|--|-------------------------------|--------------|--------------|------------|------------|------------|----------|----------|----------|
|  |                               | 5/0<br>(1)   | 4/0<br>(1.5) | 3/0<br>(2) | 2/0<br>(3) | 0<br>(3.5) | 1<br>(4) | 2<br>(5) | 3<br>(6) |
| 1/2 circle round bodied needle   |                               |              |              |            |            |            |          |          |          |
|     | 120<br>blue                   |              |              |            | C3095710   |            |          |          |          |
|     | 75<br>blue                    |              |              | C3090041   |            |            |          |          |          |
|   | 75<br>blue                    |              |              | C3090708   |            |            |          |          |          |
|   <br><br><br>   | 90<br>blue                    |              |              | C3090838   |            |            |          |          |          |
|   | 90<br>blue                    |              |              | C3090908   |            |            |          |          |          |
|   | 120<br>blue                   |              |              | C3090709   |            |            |          |          |          |
|     | 75<br>blue                    |              | C3090040     |            |            |            |          |          |          |
|     | 75<br>blue                    |              | C3090707     |            |            |            |          |          |          |
|     | 90<br>blue                    |              | C3090140     |            |            |            |          |          |          |
|   | 90<br>blue                    |              | C3090907     |            |            |            |          |          |          |
|   | 90<br>blue                    |              | C3090910     |            |            |            |          |          |          |
|   <br><br><br> | 90<br>blue                    |              | C3095347     |            |            |            |          |          |          |
|   | 120<br>blue                   |              | C3095709     |            |            |            |          |          |          |
|   | 75<br>blue                    | C3090906     |              |            |            |            |          |          |          |
|   | 90<br>blue                    | C3090905     |              |            |            |            |          |          |          |
|     | 90<br>blue                    |              | C3095557     | C3095558   |            |            |          |          |          |

| Needle<br>length<br>mm   | Thread<br>length cm<br>colour   | USP (metric)  |                        |                      |                      |                      |          |          |                      |  |  |
|--|---|---|------------------------|----------------------|----------------------|----------------------|----------|----------|----------------------|--|--|
|  |   | 5/0<br>(1)  | 4/0<br>(1.5)           | 3/0<br>(2)           | 2/0<br>(3)           | 0<br>(3.5)           | 1<br>(4) | 2<br>(5) | 3<br>(6)             |  |  |
| 1/2 circle round bodied needle   |   |   |                        |                      |                      |                      |          |          |                      |  |  |
| <br>     | <br><br>       | 75<br>90<br>75<br>blue  |                        | C3095611<br>C3096004 | C3096003<br>C3096017 |                      |          |          |                      |  |  |
|  | <br>  |    | 90<br>blue             |                      | C3095606             | C3095596             |          |          |                      |  |  |
|  | <br>   | <br><br> | 75<br>90<br>75<br>blue |                      |                      |                      | C3095442 | C3095443 | C3095452<br>C3095458 |  |  |
| <br> |    | 120<br>blue   |                        |                      | C3090959             |                      |          |          |                      |  |  |
| <br> |    | 75<br>blue  |                        |                      | C3090015             |                      |          |          |                      |  |  |
| <br> | <br><br> | 75<br>90<br>75<br>blue  |                        |                      |                      | C3090032             | C3095444 | C3090449 |                      |  |  |
| <br> | <br><br> | 75<br>120<br>75<br>blue   |                        |                      |                      | C3090144<br>C3090047 | C3090048 |          |                      |  |  |
| <br> |    | 120<br>blue   |                        |                      | C3090462             |                      |          |          |                      |  |  |
| <br> |    | 75<br>blue  |                        |                      | C3090046             |                      |          |          |                      |  |  |
| <br> |    | 90<br>blue  |                        |                      | C3090001             |                      |          |          |                      |  |  |

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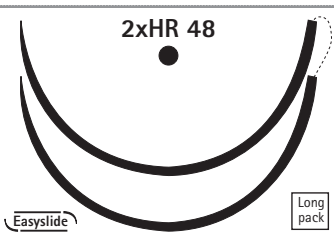

## NEEDLE-THREAD COMBINATIONS

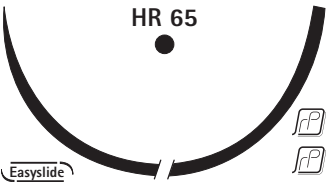










| Needle<br>length<br>mm  | Thread<br>length cm<br>colour | USP (metric) |              |            |            |            |          |          |          |
|---|-------------------------------|--------------|--------------|------------|------------|------------|----------|----------|----------|
|   |                               | 5/0<br>(1)   | 4/0<br>(1.5) | 3/0<br>(2) | 2/0<br>(3) | 0<br>(3.5) | 1<br>(4) | 2<br>(5) | 3<br>(6) |
| 1/2 circle round bodied needle  |                               |              |              |            |            |            |          |          |          |
| <br>HR 30s<br>EasySlide    | 75<br>blue                    |              |              |            |            | C3090092   |          |          |          |
| <br>HR 30ss<br>EasySlide   | 75<br>blue                    |              |              |            |            | C3090094   |          |          |          |
| <br>HR 37<br>EasySlide    | 75<br>blue                    |              |              |            |            | C3090052   |          |          |          |
| <br>2xHR 37<br>EasySlide | 90<br>blue                    |              |              |            |            | C3095054   |          |          |          |
| <br>HR 37<br>EasySlide   | 75<br>blue                    |              |              |            |            |            | C3090053 |          |          |
| <br>2xHR 37<br>EasySlide | 120<br>blue                   |              |              |            |            | C3090973   |          |          |          |
| <br>HR 37<br>EasySlide   | 75<br>blue                    |              |              |            |            | C3090051   |          |          |          |
| <br>2xHR 37<br>EasySlide | 90<br>120<br>blue             |              |              | C3090981   |            | C3090943   |          |          |          |

| Needle<br>length<br>mm  | Thread<br>length cm<br>colour | USP (metric) |              |            |                      |            |          |          |          |  |
|---|-------------------------------|--------------|--------------|------------|----------------------|------------|----------|----------|----------|--|
|   |                               | 5/0<br>(1)   | 4/0<br>(1.5) | 3/0<br>(2) | 2/0<br>(3)           | 0<br>(3.5) | 1<br>(4) | 2<br>(5) | 3<br>(6) |  |
| 1/2 circle round bodied needle  |                               |              |              |            |                      |            |          |          |          |  |
| HR 37<br>      | 75<br>blue                    |              |              |            | C3090050             |            |          |          |          |  |
| 2xHR 37<br>    | 90<br>blue                    |              |              |            | C3090942             |            |          |          |          |  |
|   | 2 x 90<br>blue                |              |              |            | G3095727             |            |          |          |          |  |
| HR 37s<br>   | 75<br>120<br>blue             |              |              |            | C3090151<br>C3090154 | C3090152   | C3090153 |          |          |  |
| 2xHR 37s<br> | 120<br>blue                   |              |              |            | C3090971             | C3090972   |          |          |          |  |
| HR 37s<br>   | 75<br>blue                    |              |              |            | C3090150             |            |          |          |          |  |
| HR 40<br>    | 100<br>blue                   |              |              |            |                      | C3090099   | C3090100 |          |          |  |
| HR 40s<br>   | 75<br>100<br>blue             |              |              |            |                      | C3090199   | C3090300 |          |          |  |
| HR 40s<br>   | 150<br>blue                   |              |              |            |                      |            | B3090331 |          |          |  |

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## NEEDLE-THREAD COMBINATIONS

| Needle<br>length<br>mm   | Thread<br>length cm<br>colour | USP (metric) |              |              |              |            |              |            |            |
|--|-------------------------------|--------------|--------------|--------------|--------------|------------|--------------|------------|------------|
|  |                               | 5/0<br>(1)   | 4/0<br>(1.5) | 3/0<br>(2)   | 2/0<br>(3)   | 0<br>(3.5) | 1<br>(4)     | 2<br>(5)   | 3<br>(6)   |
| 1/2 circle round bodied needle   |                               |              |              |              |              |            |              |            |            |
|  <p>HR 40s</p> <p>EasySlide</p>                     | 75<br>90<br>blue              |              |              |              |              |            |              | C3090200   | C3090478   |
|  <p>HR 48</p> <p>EasySlide</p>                      | 75<br>120<br>blue             |              |              |              |              | C3095445   |              | C3095146   |            |
|  <p>HR 48</p> <p>EasySlide</p> <p>loop</p>         | 150<br>blue                   |              |              |              |              |            |              | B3095081   |            |
|  <p>HR 48</p> <p>EasySlide</p>                    | 75<br>blue                    |              |              |              |              |            |              | C3090170   |            |
|  <p>2xHR 48</p> <p>EasySlide</p> <p>Long pack</p> | 120<br>blue                   |              |              |              | G3090932     |            |              |            |            |
| Needle<br>length<br>mm   | Thread<br>length cm<br>colour | USP (metric) |              |              |              |            |              |            |            |
|  |                               | 9/0<br>(0.3) | 8/0<br>(0.4) | 7/0<br>(0.5) | 6/0<br>(0.7) | 5/0<br>(1) | 4/0<br>(1.5) | 3/0<br>(2) | 2/0<br>(3) |
| 1/2 circle round bodied needle   |                               |              |              |              |              |            |              |            |            |
|  <p>2xHR 6</p> <p>EasySlide</p>                   | 45<br>45<br>blue              |              |              | C3097803     | G3097804     |            |              |            |            |











































| Needle<br>length<br>mm  | Thread<br>length cm<br>colour | USP (metric) |              |            |            |            |          |          |          |  |
|---|-------------------------------|--------------|--------------|------------|------------|------------|----------|----------|----------|--|
|   |                               | 5/0<br>(1)   | 4/0<br>(1.5) | 3/0<br>(2) | 2/0<br>(3) | 0<br>(3.5) | 1<br>(4) | 2<br>(5) | 3<br>(6) |  |
| 1/2 circle round bodied needle  |                               |              |              |            |            |            |          |          |          |  |
| <br>HR 65<br>Easyslide     | 120                           |              |              |            |            |            |          | B3090485 |          |  |
|   | 150                           |              |              |            |            |            |          |          | B3095585 |  |
|   | blue                          |              |              |            |            |            |          |          |          |  |
| 5/8 circle round bodied needle  |                               |              |              |            |            |            |          |          |          |  |
| <br>FR 26<br>Easyslide    | 75<br>blue                    |              |              |            |            |            | C3090066 |          |          |  |
|   | 75<br>blue                    |              |              |            | C3095360   |            |          |          |          |  |
| Straight round bodied needle  |                               |              |              |            |            |            |          |          |          |  |
| <br>2xGR 19<br>Easyslide | 30<br>blue                    |              | C3090776     |            |            |            |          |          |          |  |
| <br>GR 19<br>Easyslide   | 45<br>blue                    | C3090466     |              |            |            |            |          |          |          |  |
| <br>2xGR 65<br>Easyslide | 75<br>blue                    |              |              |            | C3095350   | C3095351   |          |          |          |  |
| 3/8 circle round bodied needle with short cutting point   |                               |              |              |            |            |            |          |          |          |  |
| <br>2xDRC 10             | 90<br>blue                    | C3097930     |              |            |            |            |          |          |          |  |
| <br>2xDRC 10             | 45                            |              |              |            | C3097553   |            |          |          |          |  |
|   | 60<br>blue                    |              |              |            | C3097543   |            |          |          |          |  |
| <br>DRC 10               | 75<br>blue                    |              |              |            | C3097539   |            |          |          |          |  |
| <br>2xDRC 10             | 75                            |              |              |            | C3097546   |            |          |          |          |  |
|   | 45                            |              | C3097548     |            |            |            |          |          |          |  |
|   | 60<br>blue                    |              | C3097544     |            |            |            |          |          |          |  |
| <br>2xDRC 10             | 75<br>blue                    |              | C3095697     |            |            |            |          |          |          |  |
|   | 75<br>blue                    |              |              |            |            |            |          |          |          |  |
| <br>DRC 10               | 75<br>blue                    |              | C3097538     |            |            |            |          |          |          |  |

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## NEEDLE-THREAD COMBINATIONS












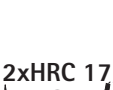






| Needle<br>length<br>mm   | Thread<br>length cm<br>colour  | USP (metric) |              |              |            |              |            |            |            |
|--|--|--------------|--------------|--------------|------------|--------------|------------|------------|------------|
|  |  | 8/0<br>(0.4) | 7/0<br>(0.5) | 6/0<br>(0.7) | 5/0<br>(1) | 4/0<br>(1.5) | 3/0<br>(2) | 2/0<br>(3) | 0<br>(3.5) |
| 3/8 circle round bodied needle with short cutting point  |  |              |              |              |            |              |            |            |            |
| 2xDRC 10<br>    |  75<br>blue   |              | C3097545     |              |            |              |            |            |            |
| 2xDRC 10b<br>   |  75<br>blue   |              | C3097516     |              |            |              |            |            |            |
| 2xDRC 10s<br>   |  75<br>blue   |              | C3097324     |              |            |              |            |            |            |
| 2xDRC 13<br>   |  75           |              |              |              |            | C3096165     |            |            |            |
|  |  75<br>blue  |              |              |              | C3095671   |              |            |            |            |
|  |  75<br>blue |              |              |              | C3097141   |              |            |            |            |
| DRC 13<br>    |  75<br>blue |              |              |              | C3097145   |              |            |            |            |
| 2xDRC 13<br>  |  90<br>blue |              |              |              | C3097171   |              |            |            |            |
|  |  75<br>blue |              |              | C3095673     |            |              |            |            |            |
| DRC 13<br>    |  75<br>blue |              |              | C3097144     |            |              |            |            |            |
| 2xDRC 13<br>  |  75         |              |              | C3097175     |            |              |            |            |            |
|  |  90         |              |              | C3097305     |            |              |            |            |            |
|  |  90<br>blue |              | C3098303     |              |            |              |            |            |            |
| 2xDRC 13b<br> |  75         |              |              |              | C3097315   |              |            |            |            |
|  |  90         |              |              |              | C3097311   |              |            |            |            |
|  |  75<br>blue |              |              | C3097836     |            |              |            |            |            |
|  |  90<br>blue |              |              | C3096013     |            |              |            |            |            |
| 2xDRC 13s<br> |  75<br>blue |              |              |              | C3095334   |              |            |            |            |
| 2xDRC 15<br>  |  75         |              |              |              | C3095756   |              |            |            |            |
|  |  90<br>blue |              |              |              | C3090728   |              |            |            |            |
| DRC 18<br>    |  75<br>blue |              |              |              |            |              | C3095166   |            |            |





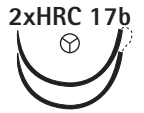



























| Needle  |   | Thread   | USP (metric) |              |              |                      |                                  |            |            |            |
|---|---|--|--------------|--------------|--------------|----------------------|----------------------------------|------------|------------|------------|
| length<br>mm  |   | length cm<br>colour  | 8/0<br>(0.4) | 7/0<br>(0.5) | 6/0<br>(0.7) | 5/0<br>(1)           | 4/0<br>(1.5)                     | 3/0<br>(2) | 2/0<br>(3) | 0<br>(3.5) |
| 3/8 circle round bodied needle with short cutting point                             |   |  |              |              |              |                      |                                  |            |            |            |
|    | <b>2xDRC 18</b><br>    |  90<br>blue   |              |              |              |                      |                                  | C3090527   |            |            |
|    | <b>DRC 18</b><br>      |  75<br>blue   |              |              |              |                      | C3095165                         |            |            |            |
|    | <b>2xDRC 18</b><br>    |  75<br> 90<br>blue   |              |              |              |                      | C3095195<br>C3090526             |            |            |            |
|  | <b>DRC 18</b><br>    |  30<br>blue<br><small>loop</small>  |              |              |              |                      | C3095456                         |            |            |            |
|  | <b>DRC 18</b><br>    |  75<br>blue   |              |              |              | C3095164             |                                  |            |            |            |
|  | <b>2xDRC 18</b><br>  |  90<br> 75<br>blue   |              |              |              | C3090525<br>C3095194 |                                  |            |            |            |
|  | <b>2xDRC 18b</b><br> |  90<br>blue   |              |              |              |                      | C3095439                         |            |            |            |
|  | <b>2xDRC 22</b><br>  |  90<br> 120<br>blue  |              |              |              |                      | C3090535<br>C3095564             | C3090536   |            |            |
|  | <b>2xDRC 26</b><br>  |  120<br> 90<br> 120<br> 75<br>blue |              |              |              |                      | C3095633<br>C3095632<br>C3095634 | C3095612   |            |            |
|  | <b>DRC 26</b><br>    |  75<br>blue   |              |              |              |                      | C3095645                         |            |            |            |
|  | <b>2xDRC 26</b><br>  |  75<br> 90<br>blue   |              |              |              |                      | C3095631<br>C3095630             |            |            |            |
|   | <b>2xDRC 6</b><br>   |  45<br>blue   |              | C3097219     |              |                      |                                  |            |            |            |

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





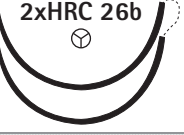









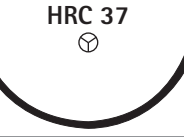








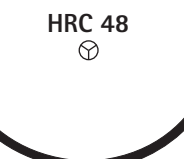





## NEEDLE-THREAD COMBINATIONS































| Needle<br>length<br>mm   | Thread<br>length cm<br>colour   | USP (metric)         |                      |              |            |              |            |            |            |  |
|--|---|----------------------|----------------------|--------------|------------|--------------|------------|------------|------------|--|
|  |   | 8/0<br>(0.4)         | 7/0<br>(0.5)         | 6/0<br>(0.7) | 5/0<br>(1) | 4/0<br>(1.5) | 3/0<br>(2) | 2/0<br>(3) | 0<br>(3.5) |  |
| <b>3/8 circle round bodied needle</b>  |   |                      |                      |              |            |              |            |            |            |  |
| <b>2xDR 6</b><br>     |  75<br>blue  |                      | C3097286             |              |            |              |            |            |            |  |
| <b>3/8 circle round bodied needle with short cutting point</b>   |   |                      |                      |              |            |              |            |            |            |  |
| <b>2xDRC 6</b><br>    |  75<br> 75<br>blue  | C3097272             | C3097288             |              |            |              |            |            |            |  |
| <b>2xDRC 8</b><br>   |  60<br> 60<br> 75<br> 60<br> 75<br>blue | C3097025<br>C3097169 | C3097046<br>C3097176 | C3097172     |            |              |            |            |            |  |
| <b>2xDRC 8b</b><br> |  60<br>blue  |                      | C3097008             |              |            |              |            |            |            |  |
| <b>1/2 circle round bodied needle with short cutting point</b>   |   |                      |                      |              |            |              |            |            |            |  |
| <b>2xHRC 10</b><br> |  2 x 60<br>blue  |                      | G3097793             |              |            |              |            |            |            |  |
| <b>2xHRC 13</b><br> |  75<br> 75<br>blue  |                      |                      | C3097039     | C3097303   |              |            |            |            |  |
| <b>2xHRC 17</b><br> |  90<br>blue  |                      |                      |              |            |              | C3090800   | C3095052   |            |  |
| <b>HRC 17</b><br>   |  75<br>blue  |                      |                      |              |            |              | C3090561   | C3090579   |            |  |
| <b>2xHRC 17</b><br> |  90<br>blue  |                      |                      |              |            |              | C3090571   |            |            |  |
| <b>2xHRC 17</b><br> |  90<br>blue  |                      |                      |              |            |              | C3095367   |            |            |  |
| <b>2xHRC 17</b><br> |  2 x 90<br>blue  |                      |                      |              |            |              | G3095169   |            |            |  |
| <b>2xHRC 17</b><br> |  90<br>blue  |                      |                      |              |            |              | C3095638   |            |            |  |
| <b>HRC 17</b><br>   |  75<br>blue  |                      |                      |              |            |              | C3090560   |            |            |  |

| Needle<br>length<br>mm   | Thread<br>length cm<br>colour  | USP (metric)   |              |              |            |                                  |            |            |            |  |
|--|--|--|--------------|--------------|------------|----------------------------------|------------|------------|------------|--|
|  |  | 8/0<br>(0.4)   | 7/0<br>(0.5) | 6/0<br>(0.7) | 5/0<br>(1) | 4/0<br>(1.5)                     | 3/0<br>(2) | 2/0<br>(3) | 0<br>(3.5) |  |
| 1/2 circle round bodied needle with short cutting point  |  |  |              |              |            |                                  |            |            |            |  |
| CV Pass<br>   | <br>2xHRC 17    | <br>75<br>90<br>blue          |              |              |            | C3090695<br>C3090570             |            |            |            |  |
|  |  |  |              |              |            |                                  |            |            |            |  |
| CV Pass<br>   | <br>2xHRC 17b   | <br>90<br>blue                |              |              |            | C3095580                         | C3095581   |            |            |  |
| CV Pass<br>   | <br>HRC 22      | <br>75<br>blue                |              |              |            |                                  |            | C3090566   | C3095572   |  |
| CV Pass<br> | <br>2xHRC 22   | <br>90<br>blue              |              |              |            |                                  | C3090580   | C3090581   |            |  |
| CV Pass<br> | <br>HRC 22    | <br>75<br>blue              |              |              |            |                                  | C3090565   |            |            |  |
| CV Pass<br> | <br>2xHRC 22  | <br>2 x 90<br>blue          |              |              |            |                                  | G3095162   |            |            |  |
| CV Pass<br> | <br>2xHRC 22b | <br>90<br>blue              |              |              |            |                                  | C3095592   |            |            |  |
| Needle<br>length<br>mm   | Thread<br>length cm<br>colour  | USP (metric)   |              |              |            |                                  |            |            |            |  |
|  |  | 5/0<br>(1)   | 4/0<br>(1.5) | 3/0<br>(2)   | 2/0<br>(3) | 0<br>(3.5)                       | 1<br>(4)   | 2<br>(5)   | 3<br>(6)   |  |
| CV Pass<br> | <br>HRC 26    | <br>75<br>blue              |              |              |            | C3090474                         | C3095796   |            |            |  |
| CV Pass<br> | <br>2xHRC 26  | <br>90<br>120<br>90<br>blue |              |              |            | C3095825<br>C3095140<br>C3095614 |            |            |            |  |
| CV Pass<br> | <br>HRC 26    | <br>75<br>blue              |              |              | C3090473   |                                  |            |            |            |  |

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












## NEEDLE-THREAD COMBINATIONS

| Needle  | Thread  | USP (metric)   |           |                      |  |          |          |                      |       |       |       |
|---|---|--|-----------|----------------------|--|----------|----------|----------------------|-------|-------|-------|
|   |   | length mm  | length cm | 5/0 (1)              | 4/0 (1.5)                                    | 3/0 (2)  | 2/0 (3)  | 0 (3.5)              | 1 (4) | 2 (5) | 3 (6) |
| mm  | colour  |  |           |                      |  |          |          |                      |       |       |       |
| 1/2 circle round bodied needle with short cutting point   |   |  |           |                      |  |          |          |                      |       |       |       |
| <br><b>2xHRC 26</b>    |  75<br> 90<br> 120   |  |           |                      | C3090808<br>C3090812<br>C3090820<br>C3095637 |          |          |                      |       |       |       |
|   |  90<br> 120<br> blue   |  |           | C3090811<br>C3095771 |  |          |          |                      |       |       |       |
|   |    |  |           |                      |  |          |          |                      |       |       |       |
|   | <br><b>HRC 26</b>  |  75<br> blue     |           |                      |  | C3090472 |          |                      |       |       |       |
|   |   |   |           |                      |  |          |          |                      |       |       |       |
|   | <br><b>2xHRC 26</b>   |  75<br> blue |           | C3090806             |  |          |          |                      |       |       |       |
|                      |   |  |           |                      |  |          |          |                      |       |       |       |
| <br><b>2xHRC 26b</b> |  90<br> 120<br> 90<br> blue |  |           |                      | C3095608<br>C3095597                         |          |          |                      |       |       |       |
|   |    |  |           |                      | C3095607                                     |          |          |                      |       |       |       |
|   | <br><b>2xHRC 30</b>  |  90<br> blue |           |                      |  | C3090584 | C3090585 |                      |       |       |       |
|   |   |   |           |                      |  |          |          |                      |       |       |       |
| <br><b>HRC 37</b>    |  100<br> blue   |  |           |                      |  |          | C3095411 |                      |       |       |       |
|   |    |  |           |                      |  |          |          |                      |       |       |       |
| <br><b>2xHRC 37</b>  |  90<br> 120<br> blue   |  |           |                      | C3095533                                     | C3095562 |          |                      |       |       |       |
|   |    |  |           |                      |  |          |          |                      |       |       |       |
| <br><b>HRC 48</b>    |  150<br> 200<br> blue  |  |           |                      |  |          |          | B3095457<br>B3095450 |       |       |       |
|   |    |  |           |                      |  |          |          |                      |       |       |       |
|   |  loop  |  |           |                      |  |          |          |                      |       |       |       |























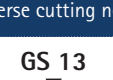





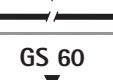








| Needle<br>length<br>mm   | Thread<br>length cm<br>colour  | USP (metric) |                      |                      |                                  |                                  |                      |            |          |
|--|--|--------------|----------------------|----------------------|----------------------------------|----------------------------------|----------------------|------------|----------|
|  |  | 7/0<br>(0.5) | 6/0<br>(0.7)         | 5/0<br>(1)           | 4/0<br>(1.5)                     | 3/0<br>(2)                       | 2/0<br>(3)           | 0<br>(3.5) | 1<br>(4) |
| Progressive curved round bodied needle with short cutting point                                |  |              |                      |                      |                                  |                                  |                      |            |          |
| 2xPRC 10<br>  |  2 x 75<br>blue   | G3097053     |                      |                      |                                  |                                  |                      |            |          |
| 2xPRC 13<br>  |  75<br>blue   |              | C3097097             |                      |                                  |                                  |                      |            |          |
| 2xPRC 13b<br> |  75<br>blue   |              | C3097701             |                      |                                  |                                  |                      |            |          |
| Hook round bodied needle with short cutting point  |  |              |                      |                      |                                  |                                  |                      |            |          |
| JRC 30s<br> |  100<br>blue  |              |                      |                      |                                  |                                  |                      | C3090963   |          |
| 3/8 circle reverse cutting needle  |  |              |                      |                      |                                  |                                  |                      |            |          |
| DS 12<br>   |   45<br> 75<br>blue   |              | C3090206<br>C3095543 | C3090207             | C3090208                         | C3090205                         |                      |            |          |
| DS 16<br>   |   45<br> 75<br> 45<br> 75<br> 45<br>blue   |              | C3090211             | C3090212<br>C3090512 | C3090213<br>C3090513             | C3090214<br>C3090514             |                      |            |          |
| DS 19<br>   |   45<br> 75<br> 30<br> 45<br> 75<br> 30<br> 45<br> 75<br> 45<br>blue |              | C3095400             | C3090219<br>C3090519 | C3090420<br>C3090220<br>C3090520 | C3090421<br>C3090221<br>C3090521 | C3090222<br>C3095522 |            |          |

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## NEEDLE-THREAD COMBINATIONS
































| Needle<br>length<br>mm  | Thread<br>length cm<br>colour   | USP (metric)                                   |                      |                      |                      |                      |            |            |          |
|---|---|--|----------------------|----------------------|----------------------|----------------------|------------|------------|----------|
|   |   | 7/0<br>(0.5)                                   | 6/0<br>(0.7)         | 5/0<br>(1)           | 4/0<br>(1.5)         | 3/0<br>(2)           | 2/0<br>(3) | 0<br>(3.5) | 1<br>(4) |
| 3/8 circle reverse cutting needle   |   |  |                      |                      |                      |                      |            |            |          |
| <br>DS 24<br>     | 75<br>blue  |  |                      |                      |                      |                      |            |            | C3090237 |
|   | <br>DS 24<br>    | 75<br>45<br>75<br>45<br>75<br>45<br>75<br>blue | C3090434<br>C3090234 | C3090435<br>C3090235 | C3090436<br>C3090236 |                      | C3090238   |            |          |
| <br>DS 30<br> | 75<br>45<br>75<br>45<br>75<br>blue  | C3090445<br>C3090245                           | C3090446<br>C3090246 | C3090447<br>C3090247 | C3090248             | C3095200             |            |            |          |
|   | <br>DS 35<br>   | 75<br>blue                                     |                      | C3090230             |                      |                      |            |            |          |
| <br>DS 39<br> | 75<br>90<br>75<br>100<br>75<br>90<br>blue   | C3090254<br>C3090020                           |                      | C3090249<br>C3090255 | C3090256             | C3090257<br>C3095488 | C3090244   |            |          |
|   | <br>2xDS 60<br> | 75<br>blue                                     |                      |                      | B3090751             |                      |            |            |          |
| Needle<br>length<br>mm  | Thread<br>length cm<br>colour   | USP (metric)                                   |                      |                      |                      |                      |            |            |          |
|   |   | 6/0<br>(0.7)                                   | 5/0<br>(1)           | 4/0<br>(1.5)         | 3/0<br>(2)           | 2/0<br>(3)           | 0<br>(3.5) | 1<br>(4)   | 2<br>(5) |
| <br>DS 9<br>  | 45<br>blue  | C3090204                                       |                      |                      |                      |                      |            |            |          |

|                   |                   |                   |                  |
|-------------------|-------------------|-------------------|------------------|
| C Box of 36 units | B Box of 24 units | G Box of 12 units | M Box of 6 units |
|-------------------|-------------------|-------------------|------------------|




























| Needle  |   | Thread   | USP (metric)            |            |              |            |                      |                      |          |          |
|---|---|--|-------------------------|------------|--------------|------------|----------------------|----------------------|----------|----------|
| length<br>mm  | length cm<br>colour   |  | 6/0<br>(0.7)            | 5/0<br>(1) | 4/0<br>(1.5) | 3/0<br>(2) | 2/0<br>(3)           | 0<br>(3.5)           | 1<br>(4) | 2<br>(5) |
| 1/2 circle reverse cutting needle   |   |  |                         |            |              |            |                      |                      |          |          |
|    | <b>HS 18</b><br>     |   | 45<br>blue              |            | C3090264     |            |                      |                      |          |          |
|    | <b>HS 21</b><br>     | <br>   | 45<br>75<br>blue        |            |              |            | C3090261<br>C3090461 |                      |          |          |
|    | <b>HS 26</b><br>     | <br><br> | 75<br>120<br>75<br>blue |            |              |            | C3090269             | G3095959<br>C3090270 | C3090271 |          |
|  | <b>HS 30</b><br>   |   | 75<br>blue              |            |              |            | C3090274             | C3090275             |          |          |
|  | <b>HS 37</b><br>   |   | 75<br>blue              |            |              |            |                      | C3090279             |          |          |
|  | <b>HS 40</b><br>   |   | 100<br>blue             |            |              |            |                      |                      | C3095912 | C3090272 |
| Straight reverse cutting needle   |   |  |                         |            |              |            |                      |                      |          |          |
|  | <b>GS 13</b><br>   |   | 45<br>blue              |            | C3095385     |            |                      |                      |          |          |
|  | <b>GS 51</b><br>   |   | 75<br>blue              |            |              |            |                      | C3090285             |          |          |
|  | <b>GS 60</b><br>   |   | 75<br>blue              |            |              |            | C3090265             | C3090266             |          |          |
| 3/8 circle Trapezoidal micro engraved with precision point                          |   |  |                         |            |              |            |                      |                      |          |          |
|   | <b>DGMP 11</b><br> |   | 45<br>blue              | C3095588   |              |            |                      |                      |          |          |
|   | <b>DGMP 13</b><br> |   | 45<br>blue              | C3095589   | C3095518     | C3095910   |                      |                      |          |          |
|   | <b>DGMP 16</b><br> | <br>   | 75<br>45<br>blue        |            | C3095549     | C3095499   | C3095999             |                      |          |          |

# Optilene®

## NEEDLE-THREAD COMBINATIONS








| Needle<br>length<br>mm  | Thread<br>length cm<br>colour   | USP (metric)     |            |                      |            |            |            |          |          |  |
|---|---|------------------|------------|----------------------|------------|------------|------------|----------|----------|--|
|   |   | 6/0<br>(0.7)     | 5/0<br>(1) | 4/0<br>(1.5)         | 3/0<br>(2) | 2/0<br>(3) | 0<br>(3.5) | 1<br>(4) | 2<br>(5) |  |
| <b>3/8 circle Trapezoidal micro engraved with precision point</b>                                     |   |                  |            |                      |            |            |            |          |          |  |
| <br><b>DGMP 19</b>   |    | 45               |            |                      |            | C3095591   |            |          |          |  |
|   |    | 75               |            |                      |            | C3095983   |            |          |          |  |
|   |    | 45               |            |                      |            | C3095500   |            |          |          |  |
|   |    | 75               |            |                      |            | C3095517   |            |          |          |  |
|   |    | 45               |            | C3095550             |            |            |            |          |          |  |
| <br><b>DGMP 24</b>   |    | 45               |            |                      |            | C3095706   |            |          |          |  |
|   |    | 75               |            |                      |            | C3095708   |            |          |          |  |
|   |    | 45               |            |                      |            | C3095717   |            |          |          |  |
|   |   | 75               |            |                      |            | C3095718   |            |          |          |  |
|   |  | blue             |            |                      |            |            |            |          |          |  |
| <b>3/8 circle reverse cutting needle with precision point</b>   |   |                  |            |                      |            |            |            |          |          |  |
| <br><b>DSMP 7</b>  |  | 45<br>blue       | C3095613   |                      |            |            |            |          |          |  |
| <br><b>DSMP 11</b> |  | 45               | C3090606   | C3090607             | C3090608   |            |            |          |          |  |
|   |  | 75<br>blue       | C3090406   |                      |            |            |            |          |          |  |
| <br><b>DSMP 13</b> |  | 45               |            |                      |            | C3090620   | C3090077   |          |          |  |
|   |  | 75               |            |                      |            | C3090409   | C3090410   |          |          |  |
|   |  | 45<br>blue       |            |                      |            | C3090619   |            |          |          |  |
| <br><b>DSMP 19</b> |  | 75<br>blue       |            |                      | C3090672   |            |            |          |          |  |
| <br><b>DSMP 13</b> |  | 45<br>blue       | C3090617   | C3090618             |            |            |            |          |          |  |
| <br><b>DSMP 16</b> |  | 45               |            |                      |            | C3090630   | C3090481   |          |          |  |
|   |  | 75               |            |                      |            | C3090427   |            |          |          |  |
|   |  | 45               |            |                      |            | C3090629   |            |          |          |  |
|   |  | 75               |            |                      |            | C3090429   |            |          |          |  |
|   |  | 45<br>75<br>blue |            | C3090628<br>C3090428 |            |            |            |          |          |  |















| Needle   |   | Thread              | USP (metric)  |               |              |              |              |              |            |              |
|--|---|---------------------|---------------|---------------|--------------|--------------|--------------|--------------|------------|--------------|
| length mm  |   | length cm<br>colour | 7/0<br>(0.5)  | 6/0<br>(0.7)  | 5/0<br>(1)   | 4/0<br>(1.5) | 3/0<br>(2)   | 2/0<br>(3)   | 0<br>(3.5) | 1<br>(4)     |
| 3/8 circle reverse cutting needle with precision point   |   |                     |               |               |              |              |              |              |            |              |
| <br><b>DSMP 19</b><br>     |                              | 45                  |               |               |              |              |              | C3090677     | C3090678   |              |
|  |                              | 75                  |               |               |              |              |              | C3090674     |            |              |
|  |                              | 45                  |               |               |              |              |              | C3090676     |            |              |
|  |                              | 75                  |               |               |              |              |              | C3090673     |            |              |
|  |                              | 45                  |               |               | C3090675     |              |              |              |            |              |
| <br><b>DSMP 24</b><br>  |                              | 45                  |               |               |              |              |              |              | C3090657   |              |
|  |                              | 75                  |               |               |              |              |              |              | C3090682   |              |
|  |                              | 45                  |               |               |              |              |              | C3090656     |            |              |
|  |                             | 75                  |               |               |              |              |              | C3090681     |            |              |
|  |                            | 45                  |               |               |              |              |              | C3090655     |            |              |
|  |                            | 75                  |               |               | C3095654     |              |              | C3090680     |            |              |
| <br><b>DSMP 30</b><br> |                            | 45                  |               |               |              |              |              |              | C3090667   |              |
|  |                            | 75                  |               |               |              |              |              |              | C3090691   | C3090692     |
|  |                            | blue                |               |               |              |              |              |              |            |              |
| Needle   |   | Thread              | USP (metric)  |               |              |              |              |              |            |              |
| angle  | length mm<br>diameter microns   | length cm<br>colour | 11/0<br>(0.1) | 10/0<br>(0.2) | 9/0<br>(0.3) | 8/0<br>(0.4) | 7/0<br>(0.5) | 6/0<br>(0.7) | 5/0<br>(1) | 4/0<br>(1.5) |
| 3/8 circle round bodied needle micro needle  |   |                     |               |               |              |              |              |              |            |              |
| 135°   | <br><b>DRm 5</b><br>100µ   | 15                  |               |               | G3090782     |              |              |              |            |              |
|  |   | 23                  |               |               | G3090024     |              |              |              |            |              |
| 135°   | <br><b>2xDRm 5</b><br>100µ | 45                  |               |               |              | G3090482     |              |              |            |              |
| 135°   | <br><b>DRm 6</b><br>140µ   | 45                  |               |               |              |              | G3090883     |              |            |              |
|  |   | 60                  |               |               |              |              |              |              |            |              |
| 135°   | <br><b>2xDRm 6</b><br>140µ | 60                  |               |               |              | G3090609     |              |              |            |              |
| 135°   | <br><b>DRm 6</b><br>140µ   | 12                  |               |               |              |              | G3095307     |              |            |              |
|  |   | 15                  |               |               |              | G3090783     |              |              |            |              |
| 135°   | <br><b>DRm 8</b><br>140µ   | 15                  |               |               |              |              | G3090753     |              |            |              |
|  |   | 45                  |               |               |              |              |              | G3090025     |            |              |
| 135°   | <br><b>2xDRm 8</b><br>140µ | 60                  |               |               |              |              | G3090758     |              |            |              |

# Optilene®

## NEEDLE-THREAD COMBINATIONS

| angle   | Needle     |  | Thread           | USP (metric) |            |            |           |           |                      |           |         |           |
|---|------------|--|------------------|--------------|------------|------------|-----------|-----------|----------------------|-----------|---------|-----------|
|   | length mm  | diameter microns   |                  | length cm    | 11/0 (0.1) | 10/0 (0.2) | 9/0 (0.3) | 8/0 (0.4) | 7/0 (0.5)            | 6/0 (0.7) | 5/0 (1) | 4/0 (1.5) |
| 3/8 circle round bodied needle micro needle                           |            |  |                  |              |            |            |           |           |                      |           |         |           |
| 135°  | DRm 10b    |  200µ   | 75<br>blue       |              |            |            |           |           |                      | G3090785  |         |           |
| 135°  | 2xDRm 10b  |  200µ   | 45<br>blue       |              |            |            |           |           | G3090610             |           |         |           |
| 135°  | DRm 10b    |  200µ   | 75<br>blue       |              |            |            |           |           | G3090784             |           |         |           |
| 1/2 circle round bodied needle micro needle                           |            |  |                  |              |            |            |           |           |                      |           |         |           |
| 180°  | 2xHRm 6    |  200µ | 45<br>blue       |              |            |            |           |           | G3090742             |           |         |           |
| 180°  | HRm 6      |  200µ | 30<br>blue       |              |            |            |           |           | G3090740             |           |         |           |
| 3/8 circle round bodied needle with taper point (vascular)            |            |  |                  |              |            |            |           |           |                      |           |         |           |
|   | 2xDRmV 8b  |  140µ | 60<br>75<br>blue |              |            |            |           |           | G3095050<br>G3095060 |           |         |           |
|   | 2xDRmV 10b |  200µ | 75<br>blue       |              |            |            |           |           |                      | G3095139  |         |           |
| 3/8 circle round bodied needle micro needle                           |            |  |                  |              |            |            |           |           |                      |           |         |           |
|   | 2xDRm 10b  |  200µ | 45<br>blue       |              |            |            |           |           |                      | G3095149  |         |           |
| 3/8 circle round bodied needle with short cutting point (mic)         |            |  |                  |              |            |            |           |           |                      |           |         |           |
| 135°  | 2xDRCm 10b |  200µ | 75<br>blue       |              |            |            |           |           |                      | G3090693  |         |           |
| 135°  | DRCm 10b   |  200µ | 75<br>blue       |              |            |            |           |           |                      | G3090768  |         |           |
| 135°  | 2xDRCm 10b |  200µ | 45<br>75<br>blue |              |            |            |           |           | G3090832<br>G3090694 |           |         |           |
| Progressive curved round bodied needle with short cutting point (mic) |            |  |                  |              |            |            |           |           |                      |           |         |           |
| 95°<br>90°  | PRCm 10b   |  200µ | 75<br>blue       |              |            |            |           |           |                      | G3095765  |         |           |

| Needle  |   | Thread   | USP (metric)  |               |                      |              |              |              |            |              |
|---|---|--|---------------|---------------|----------------------|--------------|--------------|--------------|------------|--------------|
| length<br>mm  | diameter<br>microns   | length cm<br>colour  | 11/0<br>(0.1) | 10/0<br>(0.2) | 9/0<br>(0.3)         | 8/0<br>(0.4) | 7/0<br>(0.5) | 6/0<br>(0.7) | 5/0<br>(1) | 4/0<br>(1.5) |
| Progressive curved round bodied needle with short cutting point (vas)             |   |  |               |               |                      |              |              |              |            |              |
| <b>2xPRCmV 10b</b>  |   |  |               |               |                      |              |              |              |            |              |
|  |    |  75<br>200µ<br>blue |               |               |                      |              |              | G3090669     | G3090668   |              |
| 3/8 circle lancet micro needle  |   |  |               |               |                      |              |              |              |            |              |
|   | <b>2xDLm 5</b>  |  |               |               |                      |              |              |              |            |              |
| 140°  |    | 150µ<br>30<br>blue   |               | G3090589      |                      |              |              |              |            |              |
|   | <b>DLm 6</b>  |  |               |               |                      |              |              |              |            |              |
| 140°  |    | 150µ<br>15<br>blue   |               | G3090590      |                      |              |              |              |            |              |
|   | <b>2xDLm 6</b>  |  |               |               |                      |              |              |              |            |              |
| 140°  |  | 150µ<br>30<br>blue   |               | G3090591      |                      |              |              |              |            |              |
|   | <b>2xDLm 6s</b>   |  |               |               |                      |              |              |              |            |              |
| 137°  |  | 200µ<br>30<br>blue   |               | G3090596      |                      |              |              |              |            |              |
|   | <b>DLm 6s</b>   |  |               |               |                      |              |              |              |            |              |
| 137°  |  | 200µ<br>15<br>blue   |               |               | G3090594             | G3090595     |              |              |            |              |
|   | <b>2xDLm 6s</b>   |  |               |               |                      |              |              |              |            |              |
| 137°  |  | 200µ<br>15<br>30<br>blue   |               |               | G3090846<br>G3090597 |              |              |              |            |              |
| 1/2 circle lancet micro needle  |   |  |               |               |                      |              |              |              |            |              |
|   | <b>2xHLm 6</b>  |  |               |               |                      |              |              |              |            |              |
| 160°  |  | 150µ<br>30<br>blue   |               | G3090775      |                      |              |              |              |            |              |
| Straight lancet micro needle  |   |  |               |               |                      |              |              |              |            |              |
|   | <b>2xGLm 16</b>   |  |               |               |                      |              |              |              |            |              |
|   |  | 150µ<br>23<br>blue   |               | G3095480      | G3095481             |              |              |              |            |              |
| 1/8 circle lancet micro needle  |   |  |               |               |                      |              |              |              |            |              |
|   | <b>SLm 6</b>  |  |               |               |                      |              |              |              |            |              |
| 44°   |  | 150µ<br>8<br>blue  |               | G3090777      | G3090778             |              |              |              |            |              |

# AESCULAP<sup>®</sup> – a B. Braun brand

Aesculap AG | Am Aesculap-Platz | 78532 Tuttlingen | Germany  
Phone +49 7461 95-0 | Fax +49 7461 95-2600 | [www.aesculap.com](http://www.aesculap.com)

## Manufacturer

B. Braun Surgical, S.A. | Carretera de Terrassa, 121 | 08191 Rubí | Spain

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