Stitch Guide

Most Common Stitch Types in ASTM D-6193 and ISO 4915:1991 Standards

This quick reference guide is to help communication between designers, production managers and sewing contractors. The guide is freely distributed.

Images courtecy of www.garmento.org, www.wikipedia.org, www.merrow.com

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ASTM D-6193

101

ISO

ISO# 101 Chainstitch

Stitch formed by a needle thread passing through the material and interlooping with itself on the underside of the seam.

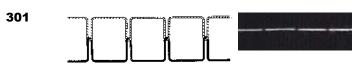


ISO# 103 Blindstitch

Stitch is formed with one needle thread which interloops with itself on the top surface of the material. The thread passes through the top ply and horizontally through portions of the bottom ply.

104 Blindstitch

One thread Blinstitch for hemming, See page 4



ISO# 301 Lockstitch

Stitch formed by a needle thread passing through the material and interlocking with a bobbin thread. Threads are meeting in the center of the seam. Stitch appear the same on the top as well as the bottom.

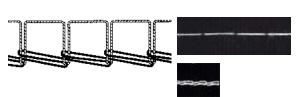
ISO# 301 Twin Needle Lockstitch

Same s 301 except that two rows of stitch are formed. Common needle spacing is 1/4" (6mm) however, the machines are available from 3/16" up to 1"(6-25mm)



ISO# 304 Zig Zag

Lockstitch is formed with a needle and bobbin thread forming a symmetrical zig zag pattern. This stitch is also used in bartacking and lockstitch buttonsewing and buttonholing.



ISO# 401 -Chainstitch

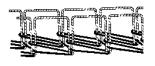
Stitch formed by 1 needle thread and being interlooped with 1 looper thread that is set on the underside of the seam.

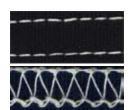
ISO# 401 Twin Needle Chainstitch

Stitch formed by 2 needle threads being interlooped with 2 looper threads, forming 2 independent rows of stitch set.



401





ISO# 406 Bottom Coverstitch

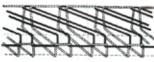
Stitch formed by 2 needle threads passing through the material and interlooping with 1 looper thread with the stitch set on the underside of the seam. Looper thread interlooped between needle threads, providing seam coverage on the bottom side.

407

ISO# 407 Bottom Coverstitch

Stitch formed by 3 needle threads passing through the material and interlacing with 1 looper thread with the stitch set on the underside of the seam. Looper thread is interlooped between needle threads, providing seam coverage on the bottom side only.

ASTM D-6193 503









ISO

ISO# 503 Overedge

Formed by 1 needle thread and 1 looper thread producing a purl on the edge of the seam. Use: serging or blindhemming.

ISO# 504 Overedge

Formed by 1 needle thread and 2 looper threads producing a purl on the edge of the seam. Use: overedge seaming and serging.

ISO# 505 Overedge

Formed by 1 needle thread and 2 looper threads forming a double purl on the edge of the seam. Use: serging



505

504



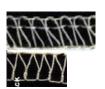


ISO# 512 Overedge

Stitch formed with 2 needle threads and 2 looper threads with the looper threads forming a purl on the edge of the seam. 512-right needle only enters the upper looper loop.

514





ISO# 514 Overedge

Formed with 2 needle threads and 2 looper threads with the looper threads forming a purl on the edge of the seam. 514-both needles enter the upper looper loop.





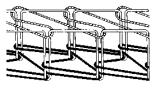




ISO# 516 Safety Stitch

5-thread safety stitch. Combining a singleneedle chainstitch (401) and a 3-thread overedge stitch (504) that are formed simultaneously.

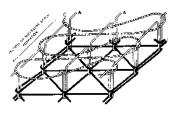


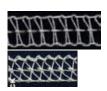




Formed with 2-needle threads, a top cover thread and a bottom looper thread.

605

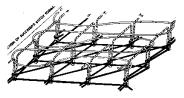




ISO# 605 Coverstitch

Formed with 3-needle threads, using a top cover thread and a bottom looper thread.

607





ISO# 607 Coverstitch

Formed with 4-needle threads, a top cover thread and a bottom looper thread.

ASTM D-6193

104 Blindstitch

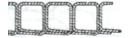
One thread Blinstitch for hemming,





202 Handstitch

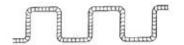
Chainstitch provides stretchability for knits





205 Handstitch

One Thread True Handstitch for Topstitching





306 Blindstitch

Two Thread blindstitch





315 Three Step Zig-Zag

Lockstitch zig-zag with more stretch





316 Lockstitch

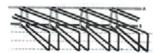
One Thread lockstitch using autoloading bobbin





502 Overedgestitch

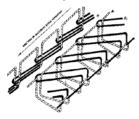
One needle overedge stitch used for serging

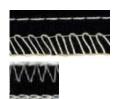




515 True Safetystitch

Chainstitch provides stretchability for knits





ASTM D-6193 Stitches Not shown in This quide

Stitch Class & Thread Count

102 One Thread 105 One Thread 201 Two Thread 203 One Thread 204 One Thread 302 Three Thread 303 Four Thread 305 Three Thread 307 Five Thread 308 Two Thread 309 Three Thread 310 Three Thread 311 Three Thread 312 Three Thread 313 Two Thread 314 Two Thread 402 Three Thread 403 Four Thread 404 Two Thread 405 Three Thread 407 Four Thread 501 One Thread 505 Three Thread 506 Four Thread 507 Four Thread 508 Three Thread 509 Three Thread 510 Two Thread 511 Two Thread 517 Five Thread 518 Four Thread 519 Six Thread 520 Eight Thread 521 Three Thread

522 Four Thread 601 Three Thread 603 Five Thread 604 Six Thread 606 Nine Thread

Buttonholes

Photos: Juki



Single Stitched Stitched



Double



Purl



Whip Stitching Stitching



Keyhole Buttonhole



Basting Stitch



Joining Stitch



Button -Flat

Button Stitches



Cross Stitch



Four Hole Stitch



Two Hole Stitch

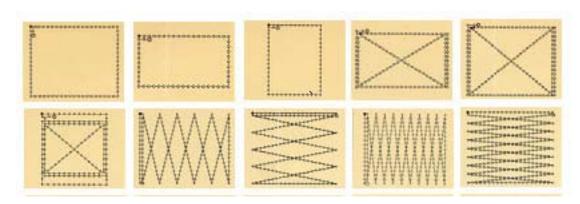


Button -Shank



Button Wrapped

Label Tacking, Webbing Attachment



Types of Overlock Stitches

Overlock stitches are classified in a number of ways. The most basic classification is by the number of threads used in the stitch. Industrial overlock machines are generally made in 1, 2, 3, 4, or 5 thread formations. Each of these formations has unique uses and benefits: 1-thread formations are used for end-to-end seaming, or 'butt-seaming'. Two- and three-thread formations, also known as 'merrowing', are the most common, used for edging and seaming, especially on knits and wovens. Four-thread formations are called mock safety stitches and create extra strength while retaining flexibility. 5-thread formations, which utilize 2 needles, are called safety stitches, creating a very strong seam used for apparel manufacturing.

Overlocking is also referred to as "overedging", "merrowing" or "serging". Though "serging" technically refers to overlocking with cutters, in practice the four terms are used



Merrow rolled blanket stich



Narrow blanket Stitch



3-thread, 1/4" wide, 7 stitches per inch



Traditional Blanket Stitch



2-thread, 1/8" wide, 20 stitches per inch, with differential feed: Photo: Merrow



Purl Stich, Photo: Merrow Sewing Machine Company



4-thread, 5/32" wide, 17 stitches per inch Photo: Merrow Sewing Machine Company

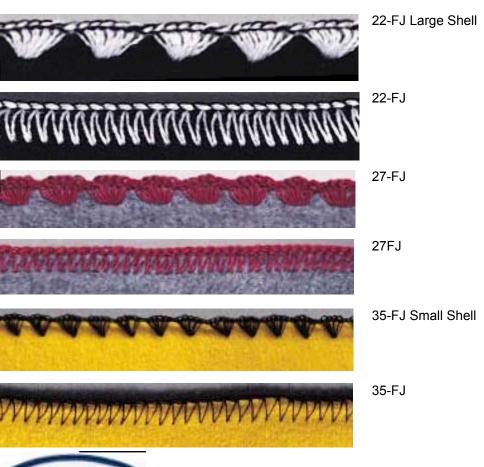


Merrow blanket Stitch

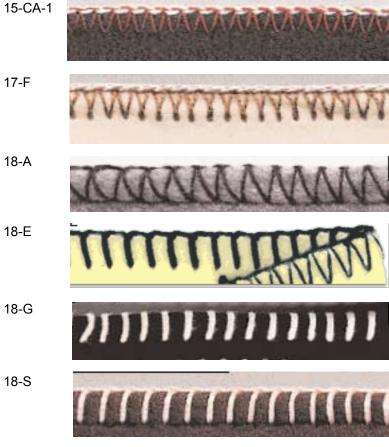


4-thread, 5/32" wide, 17 stitches per inch, Photo: Merrow

Crochet Shell Stitches



Crochet Stitches



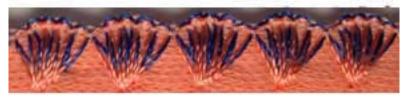
MG-2DNR-1



MG-3DR



MG-4Q-67



MG-3U



70-Y3B-2 / 72-Y3B



72-D3BR



70-D3B-2 / 72-D3B & THE NEW M-D3B-2



70-1D-7 / M-1D-7



70-1D-2 / M-1D-2

