

PURCHASE DESCRIPTION  
UNITED STATES COAST GUARD  
INSIGNIA, EMBROIDERED

for

OPERATIONAL DRESS UNIFORM (ODU); NWU TYPE IV (CGU);  
CAMOUFLAGE UTILITY UNIFORM (CUU); and USCG PARKA – FOUL/WET WEATHER

\* This specification is approved for use by all authorized personnel of the Department of Homeland Security, and the National Oceanic and Atmospheric Administration. Information requests can be submitted to the U.S. Coast Guard’s Uniform Program Office (see Comments).

1. SCOPE

\* 1.1 Scope. This specification establishes the requirements for machine embroidered insignia worn on the Operational Dress Uniform (ODU) – Standard and Lightweight ; NWU Type IV, Class 1: Coast Guard Utility (CGU) and Class 2: Coast Guard Utility – Lightweight (CGU-L); Camouflage Utility Uniform (CUU) – Desert and Woodland; and the USCG Parka Foul/Wet Weather.

1.2 Classification. The insignia will be available in the following types, classes and styles:

Type I – Tape

- Class 1 – Name
- Class 2 – U.S. Coast Guard
- Class 3 – Breast
  - Subclass 1 – Identification
  - Subclass 2 – Qualification
- Class 4 – Collar
  - Subclass 1 – Rank
  - Subclass 2 – Specialty
  - Subclass 3 – Identification

Basic Cloth:

- Style A – Poplin, Nylon/Cotton  
Color – CG Blue 3362
- Style B – Twill, Polyester/Cotton  
Color – Desert
- Color - Woodland
- Style C – Laminated, Nylon  
Color – CG Blue 3362

Type II – Patch

- Class 1 – Cap
- Class 2 – Loop Tab
  - Subclass 1 – Identification

\* Class 3 – Sleeve

Type III – Badge

- Class 1 - Identification

Type IV – Loop

- Class 1 – Rank
- Class 2 – Identification

2. APPLICABLE DOCUMENTS

2.1 General. The documents listed in this section are specified in sections 3, 4, or 5 of this specification. This section does not include documents cited in other sections of this specification or recommended for additional information or as examples. While every effort has been made to ensure the completeness of this list, document users are cautioned that they must meet all specified requirements of documents cited in 3, 4 or 5 of this specification, whether or not they are listed.

2.2 Government documents.

2.2.1 Specifications, standards, and handbooks. The following specifications, standards, and handbooks form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

FEDERAL STANDARDS

FED-STD-4          Glossary of Fabric Imperfections

COMMERCIAL ITEM DESCRIPTIONS

A-A-50199          Thread, Polyester Core, Cotton or Polyester-Covered  
A-A-55126          Fastener Tapes, Hook and Loop, Synthetic

DEPARTMENT OF DEFENSE SPECIFICATIONS

MIL-C-44296          Cloth, Fusibles

(Copies of this document are available online at <https://assist/dla.mil> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094).

2.2.2 Other Government documents, drawings, and publications. The following other Government documents, drawings, and publications form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

COAST GUARD CLOTHING DESIGN AND TECHNICAL OFFICE

CG/PD 04-9407      Cloth, Wind Resistant Poplin, Nylon/Cotton Blend  
United States Coast Guard Uniform Program Certification Bylaws for Insignia and Related Accessories

(Copies of these documents are available from the U.S. Coast Guard, Clothing Design and Technical Office, General Greene Avenue, Building 86, Natick, MA 01760.)

NAVY CLOTHING AND TEXTILE RESEARCH FACILITY

NCTRF PD 03-16      Cloth, Waterproof and Moisture Vapor Permeable

(Copies of this document is available from the Navy Clothing and Technical Research Facility, General Greene Avenue, Building 4, Natick, MA 01760.)

THE INSTITUTE OF HERALDRY

Department of Defense Standard Shades for Heraldic Yarns Used for Embroidery 2012 Edition

(This publication can be obtained from American & Efird (A&E) 24 American Street, Mount Holly, NC 28120.)

GOVERNMENT FURNISHED CARTOONS

(Copies of drawings and/or cartoons required by the contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.3 Non-Government publications. The following documents form a part of this document to the extent specified herein. Unless otherwise specified, the issues of these documents are those cited in the solicitation or contract.

AMERICAN ASSOCIATION OF TEXTILE CHEMISTS AND COLORISTS

Evaluation Procedures:

AATCC Evaluation Procedure 9 Visual Assessment of Color Difference of Textiles

Test Methods:

AATCC Test Method 16	Colorfastness to Light
AATCC Test Method 20A	Fiber Analysis: Quantitative
AATCC Test Method 61	Colorfastness to Laundering, Home and Commercial: Accelerated
AATCC Test Method 96	Dimensional Changes in Commercial Laundering of Woven and Knitted Fabrics Except Wool
AATCC Test Method 132	Colorfastness to Drycleaning
AATCC Test Method 135	Dimensional Changes of Fabrics after Home Laundering

(Copies of these documents are available online at [www.aatcc.org](http://www.aatcc.org) or from the American Association of Textile Chemists and Colorists, P.O. Box 12215, Research Triangle Park, NC 27709-2215.)

AMERICAN SOCIETY FOR QUALITY (ASQ)

ANSI/ASQC Z1.4 1993 Sampling Procedures and Tables for Inspection by Attributes

(Copies of this document are available online at [www.asq.org](http://www.asq.org) or from the American Society for Quality Control, 500 Montgomery Street, Alexandria, VA 22314.)

AMERICAN SOCIETY FOR TESTING AND MATERIALS INTERNATIONAL (ASTM)

ASTM-D1907	Standard Test Method for Linear Density of Yarn (Yarn Number) by the Skein Method
ASTM-D2724	Standard Test Method for Bond Strength of Bonded, Fused, and Laminated Apparel Fabrics
ASTM-D3775	Standard Test Method for Fabric Count of Woven Fabric
ASTM-D3776	Standard Test Method for Mass per Unit Area (Weight) of Fabric
ASTM-D5034	Standard Test Method for Breaking Force and Elongation of Textile Fabrics (Grab Test)
ASTM-D6193	Standard Practice for Stitches and Seams

(Copies of these documents are available online at [www.astm.org](http://www.astm.org) or from the American Society for Testing and Materials, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959.)

SAE INTERNATIONAL

AMS-STD-595 Colors Used in Government Procurement

(Copies of this document are available online at [www.sae.org](http://www.sae.org) or from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096.)

OTHER PUBLICATIONS

Principles and Methods of Toxicology, (fourth edition), A Wallace Hayes (editor), pp. 1057-1060, 2001.

(Copies of this publication are available online at [www.taylorandfrancis.co.uk](http://www.taylorandfrancis.co.uk) or from Taylor and Francis, 325 Chestnut Street, Philadelphia, PA 19106.)

2.4 Order of precedence. Unless otherwise noted herein or in the contract, in the event of a conflict between the text of this document and the references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

3. REQUIREMENTS

3.1 First article. When specified in the contract or purchase order (see 6.2), a sample(s) shall be subjected to first article inspection in accordance with 4.1. The sample(s) shall be a finished item(s). The term “finished item(s)” is defined as one insignia for each individual insignia, or one pair for paired insignia.

3.2 Recycled, recovered, or environmentally preferable materials. Recycled, recovered, or environmental preferable materials should be used to the maximum extent possible, provided that the material meets or exceeds the operational and maintenance requirements, and promotes economically advantageous life cycle costs.

3.3 Embroidery.

3.3.1 Designs. Unless otherwise indicated, the design of individual insignia shall be dictated by the Government embroidery files (.DST files) or by Government furnished cartoon or drawing. (see 6.2).

3.3.2 Font and lettering. For Type I, Classes 1 and 2 shall be embroidered using Helsinki Font or an exact equivalent. Dimensions for the individual upper and lower case letters, and special characters can be found in Figures 1 thru 3.

3.3.2.1 Lettering for Type I, Class 1. Type I, Class 1 Name Tape(s) shall be embroidered with upper case letters only, unless a lower case letter or special character are approved for use by authorized personnel and the procuring agency. For surnames that exceed fifteen (15) characters, the upper case letters shall be reduced to allow the surname to fit in a field of embroidery not to exceed 5 inches centered on an  $8 \pm 1/8$  inch length of tape. The field of embroidery for surnames fourteen (14) characters and under shall not exceed  $4 \frac{5}{8}$  inches centered on an  $8 \pm 1/8$  inch length of tape.

3.3.2.2 Lettering for Type I, Class 2. Type I, Class 2 U.S. Coast Guard Tape(s) shall be embroidered with upper case letters only. Tapes shall be embroidered with a space between “U.S.”; “COAST”; and “GUARD”. The field of embroidery shall be  $4 \frac{5}{8}$  inches, centered on an  $8 \pm 1/8$  inch length of tape.

3.3.3 Embroidery files. The Government shall furnish computer embroidery files in .DST format to manufacturer the insignia designs specified in this specification. The original Government computer files shall not be altered in any way; but can be duplicated by the contractor to make minor modifications to accommodate automated equipment. The embroidery design and finished measurements shall be maintained. These modifications shall not alter the serviceability, dimension or appearance requirements specified in this specification. The computer embroidery files provided by the Government shall only be used to manufacturer insignia specified in this specification for Government use. The individual insignia designs finished dimensions shall be as shown in Figures 1 thru 32. If discrepancies exist between illustrations within this document and Government supplied computer files the computer files shall govern. A listing of Government owned embroidery files are shown in Table X of this specification.

3.4 Figures. Figures 1 thru 32 shall apply. When inconsistencies exist between the written specification and the applicable figure, the written specification shall govern.

3.5 Materials and components. The materials and components shall conform to applicable specifications, standards, and figures as specified herein. Verification shall be in accordance with the standards and methods specified in 4.1.

3.5.1 Basic cloth.

3.5.1.1 Style A – Poplin, Nylon/Cotton blend. The basic cloth for Style A embroidered insignia shall be a soil, stain, and wrinkle resistant fabric conforming to the requirements specified in CG/PD 04-9407.

3.5.1.1.1 Style A colorways. The color for Style A basic material shall be dyed to match the standard sample for CG Blue 3362.

3.5.1.2 Style B – Twill, Polyester/Cotton blend. The basic cloth for Style B embroidered insignia shall be a 50/50 or 65/35 polyester/cotton blend two up, one down, right or left hand twill 7.0 to 8.3 ounces per square yard, single ply warp and filing, with a breaking strength of not less than 140 pounds in the warp and 80 pounds in the filling. The residual shrinkage shall be not more than 2 percent in either the warp or filling direction when tested as specified in AATCC 135 and AATCC61A respectively.

3.5.1.2.1 Style B colorways. Style B basic cloth shall be dyed to match the standard samples for colors: Desert: Khaki 3729 and Woodland: OD Green 017 when viewed under filtered tungsten lamps that approximate artificial daylight having a correlated color temperature of 7500 ( $\pm$  200K) with an illumination of 100 ( $\pm$  20) foot candles; and shall be a good match to the standard sample under incandescent lamplight 2300K ( $\pm$  200K).

3.5.1.3 Style C – Laminated, Nylon. The basic cloth for Style C embroidered insignia shall be a one hundred percent Nylon cloth, laminated, waterproof and moisture vapor permeable cloth conforming to NCTRF PD 03-16.

3.5.1.3.1 Style C colorways. The color for Style C basic cloth shall be dyed to match the standard sample for CG Blue 3362.

3.5.1.4 Standard samples for basic cloth. The basic cloth for Styles A, B, and C shall match their correlating standard samples for shade and appearance, and shall, unless otherwise indicated, be equal to or better than the standard sample with respect to all characteristics for which the standard sample is referenced. Visual shade matching and spectral reflectance requirements shall be in accordance to the standard samples specifications and the Clothing Design and Technical Office – Shade Analysis (see 6.8).

3.5.2 Fusible interlining. The material used as an interlining for Type I, and II insignias shall conform to Type V, Class 1, Style A of MIL-C-44296. The interlining shall be centered and fused to the underside of the cut basic cloth. The web adhesive shall not bleed or strike through to the face of the basic cloth. After bonding to the basic cloth the bonding strength shall meet testing requirements specified in 4.9.1.

3.5.3 Fusible backing. The material used as a fusible backing for Type III shall conform to Type V, Class 2, Style B of MIL-C-44296. The fusible backing shall be fused to the underside of the basic cloth. The web adhesive shall not bleed or strike through to the face of the basic cloth. After bonding to the basic cloth the bonding strength shall meet testing requirements specified in 4.9.1.

3.5.4 Embroidery yarn. All embroidery yarns shall be 2-ply polyester (with abundant luster), bright, continuous filament embroidery yarn. The yarn denier shall range from 90 to 120. All yarns shall show good colorfastness to light, laundering, wet-dry cleaning of not less than grade 4 when tested as specified in 4.9.

3.5.4.1 Embroidery yarn colors. The colors of the embroidery yarns for all types, classes, and subclasses of embroidered insignia contained within this document are listed in Table I. The yarn colors shall match the specified color from the Department of Defense Standard Shades for Heraldic Yarns Used for Embroidery 2012 Edition (see 4.7.1.1). The use of sulfur dyes is prohibited.

3.5.4.1.1 Embroidery yarn color matching. The color and appearance of the embroidery yarn on the basic cloth shall match the standard sample when viewed in accordance with the method specified in 4.7.

TABLE I – Embroidery Yarn Colors

Color Name	Cable Number
Golden Yellow HD	67104
Yellow HH	67108
Scarlet HL	67111
Sky Blue HQ	67116
Ultramarine Blue HS	67118
Cobalt Blue HW	67122
Olive Drab HAH	67133
Silver Gray	67137
Black HAN	67138
Khaki HCS	67193
Spicebrown HCV	67196
White HDE	67205

3.5.5 Sewing thread. The thread used to stitch Types I, II and Type IV items shall conform to Type I or Type II of A-A-50199. Thread for needle and bobbin (looper) shall be Tex size 36 to 50. As an alternate, Tex size 31 to 35 may be used as the bobbin (looper) thread.

3.5.5.1 Sewing thread colors. The sewing thread colors shall be a good match to the SAE AMS-STD-595 color chip numbers as specified in Table II.

TABLE II – Sewing Thread Colors

Class	Style	Style Color	Thread Color Name	Chip No.
Type I	Style A	CG Blue 3362	Black	27041
Type II	Style B	Desert: Khaki 3729 Woodland: OD Green 107	Tan 499 Camo Green 483	20180 34094
Type III	Style B	Desert: Khaki 3729 Woodland: OD Green 107	Tan 499 Camo Green 483	20180 34094
Type IV	Style C	CG Blue 3362	Black	27041

3.5.6 Fastener tape, hook. The hook fastener tape shall conform to Type II Class 1 or Class 4 of A-A-55126 (see 6.8.1). The color shall be black.

3.6 Construction.

3.6.1 Stitches, seams, and stitching. All stitches, seams and stitching for construction of Type II, Type III, and Type IV items shall conform to ASTM-D6193. The seaming and stitching shall be in accordance with Table III.

TABLE III – Stitches, Seams, and Stitching for Types II, III, and IV

Type/Class	Construction Seam Details	Seam Type	Stitch Type	Stitches per Inch	Gauge or Bite
Type II, Class 1	Hem edge stitching	EFa-1	301	8-10	1/8 inch from folded edge
* Type II, Class 3 Type III	Overedge border	EFd	505	26-34	1/8 inch bite
Type IV, Class 1 and Class 2	Hem edge stitching	EFa-1	301	8-10	1/16 inch from folded edge
	Center back seam	SSa-1	301	8-10	1/4 inch guage

3.6.1.1 Embroidery stitches. The embroidery stitches for individual insignia shall be of the type, length, number, and density dictated by the Government embroidery file (.DST), cartoon or drawing.

3.6.1.2 Background stitches. Insignia requiring background stitching shall have either horizontal or vertical background stitching; and be of the type, length, number, and density as dictated by the Government embroidery file (.DST), cartoon or drawing.

3.6.1.3 Underlay stitches. Insignia requiring underlay stitches shall have the stitches orientation, type, length, number, and density dictated by the Government embroidery file (.DST), cartoon or drawing.

3.6.2 Tapes.

3.6.2.1 Tape assembly. The basic cloth (Style A or Style B) is to be cut into strips on the cross grain, forming the length of the tape from selvage to selvage. The strips long sides (top and bottom edges) shall be folded (over a stabilizer if applicable), and pressed with the folded edges at a specified width. The top and bottom edges shall maintain a consistent distance and not “dip” in at the location of the embroidery. The folded edges shall be secured with an adhesive (after stitching), or embroidery stitching. Each finished tape shall have lettering (Type I, Classes 1 and 2) or design (Type I, Classes 3 and 4). The sides of the tape shall remain unfinished until tape is applied to garment at which time the sides will be turned in and topstitched to the end item giving a clean finish.

3.6.2.2 Tape dimensions. The finished measurements for the devices will be in accordance with Figures 1 through 32.

3.6.3 Patches.

3.6.3.1 Type II, Class 1: cap patch assembly. The basic cloth (Style B) shall be cut with a 1/4 inch allowance. All sides of the patch shall be folded back 1/4 inch and edge stitched on all sides with a 301 stitch type 10 stitches per inch 3/16 (+/- 1/16) from folded edge. The color of the thread shall be determined by Type, and according to Table III. The finished patch dimensions can be found in Figures 13 thru 15; and shall finish with a minimum of 1/4 inch boarder around the embroidered design, unless otherwise specified.

3.6.3.2 Type II, Class 2: loop tab patch assembly. The basic cloth (Style A or C) shall be cut with a 1/4 inch allowance measuring 2 inches in height by 2 inches in width; the embroidered design shall be centered vertically and horizontally with a minimum of a 1/4 inch boarder around the embroidered design, unless otherwise specified. All sides of the patch shall be folded back 1/4 inch and edge stitched on all sides with a 301 stitch type at 10 stitches per inch 3/16 (+/- 1/16) from folded edge; finished dimensions shall be 1 1/2 (+/- 1/16) inches in height by 1 1/2 (+/- 1/16) inches in width. The color of the thread shall be determined by Type, and according to Table III.

3.6.3.3 Type II, Class 3: sleeve patch assembly. The basic cloth (Style A) shall be embroidered and the finished shape designated by the embroidery file, and finished with an overedged border. The badge shall have a fusible interlining backing in accordance with paragraph 3.5.4 to stabilize the basic cloth during the embroidery process. The embroidery for the patch and the color of the thread shall be determined by the design, see Figures 28 and 29 in conjunction with 3.5.4.1.1, and shall be specified in the solicitation or contract. After embroidery the patches will be backed with fastener hook tape (see 3.5.6) and the edges will be finished with a border stitching that shall not be on top of the design and shall secure the hook tape to the patch on all sides (see 3.6.1). Finished dimensions shall be 2 1/4 (+/- 1/16) inches in height by 4 (+/- 1/16) inches in width.

3.6.4 Badges.

3.6.4.1 Badge assembly. The basic cloth (Style B) shall be embroidered and the finished shape designated by the embroidery file, and finished with an overedged border (see 3.6.1). The badge shall have a fusible interlining backing in accordance with paragraph 3.5.4. The border stitching shall not be on top of the design. The embroidery for the badge shall be in accordance with Figure 30.

3.6.4.1.1 Badge embroidered background. The embroidery yarns used for the background stitching shall be as listed below and in accordance with 3.6.1.2.

Basic Cloth Style	Basic Cloth Color	Embroidery Yarn Cable No.
B	Desert: Khaki 3729	67193
	Woodland: OD Green 107	67133

### 3.6.5 Loops

3.6.5.1 Loop assembly. The basic cloth (Style A or C) shall be cut into a rectangle measuring 2 3/4 inches height by 3 3/4 inches wide and embroidered with the design centered vertically and horizontally. Folding, hemming and joining operations shall be as indicated in Figure 32. Hems and seams shall have a minimum of eight stitches per inch, sewn with black thread (see 3.6.1). Seam allowances for hemming and joining operations are noted in Figure 32. Hems shall be pressed open and flat.

3.6.5.2 Loop finished dimensions. The finished loop shall be 2 ( $\pm 1/16$ ) inches in height and the finished inside width of the loop shall not be less than 1 1/2 (-0, + 1/16) inches in width.

3.6 Tolerances. Unless otherwise specified, the overall measurements of the finished insignia shall be within a tolerance of  $\pm 1/16$  inch of the required measurements. Where no tolerances are cited, design dimensions shall have a tolerance of  $\pm 1/32$  inch. Examination shall be in accordance with 4.8.

3.7 Toxicity. The embroidered insignia items shall not present a health hazard and shall show compatibility with prolonged, direct skin contact when tested as specified in 4.3.4. Chemicals recognized by the Environmental Protection Agency (EPA) as human carcinogens shall not be used (see 6.2).

3.8 Workmanship. Each finished tape, patch, badge, or loop device shall conform to the design and construction requirements specified herein. Each item shall be uniform in appearance, quality and free from irregularities or defects that could affect form, fit or function including performance or durability when tested or visually and/ or dimensionally inspected as specified in Section 4.

## 4. VERIFICATION

4.1 Classification of inspections. The inspection requirements specified herein are classified as follows:

- a. First article inspection (see 4.2).
- b. Certification inspection (see 4.3).
- c. Conformance inspection (see 4.4).

4.2 First article inspection. Inspection and testing of the first article (see 3.1) shall be made of a completely finished item or items for all provisions of this specification applicable to the end item examinations and tests.

4.2.1 First article samples. A sample unit shall be expressed as one (1) tape, patch, badge, or loop. Unless otherwise specified, the sample size of the first article lot shall be specified in the solicitation or contract and performed in accordance with ANSI/ASQC 1.4, except Type I Classes 1 and 2 (see 4.2.1.1 and 4.2.1.2).

4.2.1.1 First article samples for Type I, Class 1. Unless otherwise specified in the solicitation or contract, the sample size for Type I, Class 1 name tapes shall be six (6) tape samples on Style A cloth; four (4) tapes shall contain all twenty-six (26) capital letters of the Latin alphabet and the following lower case letters, special characters, and punctuation marks: “a”, “c”, “n”, “o”, “t”, “Ñ” “.” (period), “-” (hyphen), “'” (apostrophe), “~” (tilde); and two (2) tapes with the letters: “MacDONALD” shall be submitted. The remaining lower case letters and special characters shall be certified as needed in conjunction with contract requirements.

4.2.1.2 First article samples for Type I, Class 2. Unless otherwise specified in the solicitation or contract, the samples size for Type I, Class 2 U.S. Coast Guard tapes shall be six (6) tape samples on Style A cloth.

4.3 Certification inspection. The certification process is detailed in the United States Coast Guard Uniform Program Certification Bylaws for Insignia and Related Accessories (see 6.7).

4.4 Conformance inspection. Conformance inspection shall include component and end item visual examination, and testing as specified in 4.6. Sampling for inspection shall be performed in accordance with ANSI/ASQC Z1.4, and the provisions set forth herein, except where otherwise indicated (see 6.2). Requests for use of equivalent items shall be accompanied with the test results and submitted to the procuring agency.

4.5 Inspection conditions. Unless otherwise stated, all inspections shall be performed in accordance with the test conditions specified in 4.6.

4.6 Methods of examination. Components, materials, and end items shall be inspected as follows:

- a. Visual examination (see 4.7).
- b. Dimensional examination (see 4.8).
- c. Laboratory testing (see 4.9).

4.7 Visual examinations.

4.7.1 Component and material visual examination. In conjunction with 4.1 components and materials shall be tested in accordance with all the requirements of referenced paragraphs as shown in Table IV:

TABLE IV. Visual Examination of Components

Component	Characteristic	Requirement Paragraph	Results Reported As
Embroidery Yarn	Ply Color	3.5.4	Pass or fail Pass or fail
Sewing Thread	Ply Color	3.5.5	Pass or fail Pass or fail
Bobbin Thread	Ply Color	3.5.5	Pass or fail Pass or fail
Overedge Stitching Yarn/Thread	Ply Color	3.5.4	Pass or fail Pass or fail
Base Cloth (Style A, Style B, and Style C)	Weave Weave Color	3.5.1	Pass or fail Pass or fail Pass or fail
Backing Material	Weave	3.5.3	Pass or fail
Hook Tape	Type Color	3.5.6	Pass or fail Pass or fail

4.7.1.1 Embroidery yarn visual shade examination. The shade and appearance of the embroidered yarns shall be a good match to their respective cable number specified in Table I. Visual matching shall be viewed using the AATCC Evaluation Procedure 9, Option A, with sources simulating artificial daylight D75 illuminant with a color temperature of 7500° (± 200)K illumination of 100° (± 20) foot candles, and shall be a good match to the cable number color under incandescent lamplight at 2856° (± 200)K.

4.7.2 End item visual examination. The finished insignias selected for end item visual inspection shall be visually examined for compliance to Section 3. The finished insignia shall be examined for defects in shade, design, material, construction and workmanship. Defects shall be classified as specified under Table V.

TABLE V. Visual Examination of End Item(s)

Examine	Defect	Classification	
		Major	Minor
Base Cloth <u>1/</u>	Other than specified	101	
	Any splice, cut, hole or tear	102	
	Any broken or missing yarns or multiple floats	103	
	Any needle chew, mend, burn, needle chew, misweave, broken or missing yarn, visible mend, thin place, or run	104	
	Color/shade not as specified, area of poor dye penetration, dye steak, shade bar	105	
Stiffener/Backing	Backing material omitted or incomplete when required		201
	Coating not uniform, incomplete when required	106	
	Protrudes more than 1/32 inch beyond finished insignia	107	
	Stiffener visible on front of Stiffener/backing not as specified	108 109	
Thread	Thread not as specified: for color for Type/Class	110	202
Hook Tape	Hook tape not as specified: for color for Type/Class	111	
		112	
Component and assembly	Any defective component, any component omitted, any required operation omitted or improperly preformed	113	
Embroidery	Yarn not as specified: for color for Type/Class	114	
		115	
	Stitch density not uniform	116	
	Bobbin thread showing on face	117	
	Tension: too tight, causing distorted surface of face side too loose, causing loopy surface and distorted design	118	
		119	
	Traveling (walking) stitches on face of insignia	120	
	Broken stitches or incomplete stitching (missing stitches)	121	
Seam, stitching and stitch tension (for construction)	Not specified seam or stitch type	122	
	Missing, broken, or skipped stitches, loose tension, tight tension, stitches per inch not as specified		203

TABLE V. Visual Examination of End Item(s) (Continued)

Examine	Defect	Classification	
		Major	Minor
Design and lettering	Insignia design not as specified (i.e. wrong design, Government computer file not used)	123	
	Design poorly defined, distorted or misshapen, not sharply outlined, poor registration	124	
	Yarns:		
	bunched, kinked or tangled, shifted or scuffed on face	125	
	distorted, loose, or too tightly tensioned on face	126	
	not uniform, incorrect stitch density	127	
	incomplete (missing stitches)	128	
	unrelated colors or yarn visible on face	129	
	Appearance:		
	flat: underlay (if required) missing, not well rounded, prominent, or insufficient		204
	Bobbin thread visible on face	130	
Design (Types I, II, IV)	Design not centered vertically and horizontally		205
Design (Type III)	Design not positioned as specified		206
Lettering (Type I Classes 1 and 2)	Font style not as specified	131	
	Connecting stitches between letters	132	
Workmanship (All Types and Classes where applicable)	Base cloth:		
	not cut as specified (cut across grain, or along incorrect grain line)	133	
	Basic Cloth Tape:		
	not uniform in width, top and bottom edges not parallel along the length of the insignia	134	
	Bowing or curvature of the top or bottom edges where the embroidery is located	135	
	Spot, stain, or foreign matter on face	136	
	Two or more thread ends untrimmed		207
	Creased or folded, will not flatten by manual pressure		208
For pared items:			
not pared left and right (when required)	137		
embroidery yarn not an acceptable match when pared	138		
Workmanship (Type II Class 1 and Class 2)	Fusible backing material:		
	not as specified		209
	Not exhibiting a firm finish:		
	affecting the appearance of the yarn's color	139	
	causing puckering or warping of the insignia	140	
	causing a transference to the end item uniform	141	
Finished edges:			
irregular or wavy	142		
excessive overlapping of stitches		210	

TABLE V. Visual Examination of End Item(s) (Continued)

Examine	Defect	Classification	
		Major	Minor
Workmanship (Type II Class 3)	Fusible backing material: not as specified		211
	Not exhibiting a firm finish: affecting the appearance of the yarn's color causing puckering or warping of the insignia causing a transference to the end item uniform	143	
		144	
		145	
	Hook tape: omitted	146	
		147	
	Overlocked edges: too tight, causing distorted surface of the end item insignia too loose, causing looping stitches broken stitches or incomplete stitching (missing stitches) excessive overlapping of stitches improperly securing hook tape to the finished item overlapping the design	148	
		149	
		150	
		151	212
		152	
Workmanship (Type IV)	Finished loops shall lie smooth and flat	153	
	There shall be no evidence of: puckering, bubbling, blistering	154	
Finishing	Omitted completely or not as specified	155	
	Finished free end: .....not specified length .....not finished as specified	156	213
	Edge stitching: .....omitted (when required) too tight or too loose tension stitches per inch not as specified		214
			215
			216
			217
	.....wrong stitch type		218
stitching margin not as specified		219	
Broken or skipped stitches		220	
Not cut in single units when required			
Cleanness	Any spot, streak, stain or foreign matter on face	157	
	Thread ends not trimmed		221

1/ As defined in FED-STD-4B: Glossary of fabric imperfections

#### 4.8 Dimensional examination.

4.8.1 End item dimensional examination. The finished insignia selected for dimensional examination shall conform to the dimensions specified in Section 3 and Figures 1 thru 32. Any dimension not within the specified tolerance range shall be classified as a defect as specified under Table V. The sample size shall be determined by the requirements found in 4.2, 4.3, and 4.4.

4.8.1.1 Examination for dimensions. Measurements shall be taken of all points, lines, areas, curves, radii, and spaces for which dimensions are specified in cartoons, drawings, or as specified in Figures 1 thru 32. Defects shall be classified as specified under Table VI. Measurement guidance can be found in Table XI.

TABLE VI. Dimensional Examination of the End Item

Examine	Defect	Classification	
		Major	Minor
Dimensions <u>1/</u>	Device: finished dimensions not as specified	150	
	Design: not as specified	151	

1/ Tolerances shall be as specified in Figures 1 thru 32.

#### 4.9. Laboratory testing.

4.9.1 Component testing. The components specified in Table VII shall be tested with the test method cited. The sample size shall be determined by the requirements found in 4.2, 4.3, and 4.4.

TABLE VII. Testing of Components

Component	Characteristic	Requirement Paragraph	Test Method <u>1/</u>	Results Reported As
Embroidery Yarn	Fiber identification	3.5.4	AATCC Test Method 20A	Pass or fail
	Denier		ASTM-D1907	To the nearest denier
	Presence of sulfur		<u>3/</u>	Pass or fail
	Colorfastness to: Light (40 AATCC fading units or 170 kilojoules)		AATCC Test Method 16, Option 1 or 3 <u>2/</u>	Pass or fail
	Laundering (after three cycles)		AATCC Test Method 61, Test 2A <u>2/</u>	Pass or fail
	Wet-dry cleaning		AATCC Test Method 132 <u>2/</u>	Pass or fail
Sewing Thread	Fiber identification	3.5.5	AATCC Test Method 20A	Pass or fail
	Presence of sulfur		<u>3/</u>	Pass or fail
	Colorfastness to: Light (40 AATCC fading units or 170 kilojoules)			Pass or fail
	Laundering (after three cycles)		AATCC Test Method 16, Option 1 or 3 <u>2/</u>	Pass or fail
	Wet-dry cleaning		AATCC Test Method 61, Test 2A <u>2/</u>	Pass or fail
			AATCC Test Method 132 <u>2/</u>	Pass or fail
Overedge Stitching Yarn/Thread	Fiber identification	3.5.4	AATCC Test Method 20A	Pass or fail
	Denier		ASTM-D1907	To the nearest denier
	Presence of sulfur		<u>3/</u>	Pass or fail
	Colorfastness to: Light (40 AATCC fading units or 170 kilojoules)		AATCC Test Method 16, Option 1 or 3 <u>2/</u>	Pass or fail
	Laundering (after three cycles)		AATCC Test Method 61, Test 2A <u>2/</u>	Pass or fail
	Wet-dry cleaning		AATCC Test Method 132 <u>2/</u>	Pass or fail

TABLE VII. Testing of Components (Continued)

Component	Characteristic	Requirement Paragraph	Test Method <u>1/</u>	Results Reported As
Base Cloth	Fiber identification Weight Breaking strength: Warp and filling Shrinkage: Warp Colorfastness	3.5.1	AATCC Test Method 20A ASTM-D3776, Option A  ASTM-D5034, Tests G-E  AATCC-96, Test Vc, D AATCC Test Method 132	Pass or fail Nearest 0.1 oz/ sq yd  Nearest 1 lb.  Nearest 0.1% Pass or fail
Fusible Interlining/ Backing	Fiber identification Weight Bonding strength	3.5.2 and 3.5.3	AATCC Test Method 20A ASTM-D3776, Option A ASTM-D2724, Paragraph 11	Pass or fail Nearest 0.1 oz/ sq yd Before laundering: 32 oz. min. per inch After laundering <u>4/</u> : 24 oz. min. per inch

1/ Five embroidered samples per insignia design shall be required for testing.

2/ AATCC Evaluation Procedure 9

3/ Accepted on contractor's certification of compliance.

4/ After three (3) launderings.

4.9.2 End item testing. Testing of completely finished end item(s) shall be in accordance with Table VIII and referenced specifications. Defects shall be classified as specified under Table VIII. The sample size shall be determined by the requirements found in 4.2, 4.3, and 4.4.

TABLE VIII. End Item Testing

Characteristic	Requirement Paragraph	Test Method	Results Reported As
Colorfastness of embroidery and overedge stitching yarn: Wet-dry cleaning Light Laundering <u>1/</u>	3.5.4	AATCC Test Method 132 AATCC-16, Option A AATCC-61, Test 3A	Pass or fail Pass or fail Pass or fail
Overedge stitching: Stitches per inch	3.5.4	ASTM D3775	Pass or Fail

1/ Only the stain on the fiber of the color transfer cloth represented in the basic materials being tested, shall be evaluated.

## 5. PACKAGING

5.1 Packaging. For acquisition purposes, the packaging requirements shall be as specified in the contract or purchase order (see 6.2).

## 6. NOTES

(This section contains information of a general or explanatory nature which may be helpful, but is not mandatory.)

\* 6.1 Intended use. The insignia covered by this specification are intended to be worn by United States Coast Guard personnel, Department of Homeland Security personnel, United States Public Health Services personnel, and National Oceanic and Atmospheric Administration personnel authorized to wear the Coast Guard’s Operational Dress Uniform; the NWU Type IV Coast Guard Utility; the Camouflage Utility Uniform (CUU); and the USCG Parka – Foul/Wet Weather as shown in Table IX.

TABLE IX – Insignia Types and Classes by Uniform

Type/Class/Subclass	Style	Style Color	Uniform
Type I, Class 1 – Name Tape	A	CG Blue 3362	ODU NWU/CGU
Type I, Class 2 – U.S. Coast Guard Tape	A	CG Blue 3362	ODU NWU/CGU
Type I, Class 3, Subclass 1 – Breast Identification Tape	A	CG Blue 3362	ODU NWU/CGU
	B	Desert: Khaki 3729 Woodland: OD Green 107	CUU
Type I, Class 3, Subclass 2 – Breast Qualification Tape	A	CG Blue 3362	ODU NWU/CGU
	B	Desert: Khaki 3729 Woodland: OD Green 107	CUU
Type I, Class 4, Subclass 1 – Collar Rank Tape	A	CG Blue 3362	ODU NWU/CGU
	B	Desert: Khaki 3729 Woodland: OD Green 107	CUU
Type I, Class 4, Subclass 2 – Collar Specialty Tape	A	CG Blue 3362	ODU NWU/CGU
	B	Desert: Khaki 3729 Woodland: OD Green 107	CUU
Type I, Class 4, Subclass 3 – Collar Identification Tape	A	CG Blue 3362	ODU NWU/CGU
	B	Desert: Khaki 3729 Woodland: OD Green 107	CUU
Type II, Class 1 – Cap Patch	B	Desert: Khaki 3729 Woodland: OD Green 107	CUU
Type II, Class 2, Subclass 1 – Loop Tab Patch	A	CG Blue 3362	ODU NWU/CGU
	C		USCG Parka
Type II, Class 3 – Sleeve Patch	A	CG Blue 3362	NWU/CGU
Type III – Badges	B	Desert: Khaki 3729 Woodland: OD Green 107	CUU
Type IV, Class 1 – Rank Loop	A	CG Blue 3362	ODU NWU/CGU
	C		USCG Parka
Type IV, Class 2 – Identification Loop	A	CG Blue 3362	ODU NWU/CGU
	C		USCG Parka

6.2 Acquisition requirements. Acquisition documents should specify the following:

- a. Title, number, and date of this specification, including any amendments.
- b. Type, classes and styles required (see 1.2).
- c. National stock numbers (when required).
- d. Applicable Government embroidery files (.DST) (see 2.2.2).
- e. Drawing/cartoon number (see 2.2.2).
- f. Latest issue of documents referenced herein (see 2.2).
- g. When first article is required (see 3.1).
- h. When toxicity testing is required (see 3.7).
- i. Inspection conditions (see 4.3).
- j. Conformance inspection and acceptance quality limits (see 4.4)
- k. Packaging and packing requirements (see 5.1).

6.3 Certification note. Item(s) furnished under this specification shall be products that are authorized by the qualifying activity prior to or in conjunction with contract award (see 4.3).

6.4 Government-furnished property. The contracting office should arrange to furnish Government embroidery files (.DST), cartoons, or drawings required in 6.2.

6.5 Samples. For access to samples, address the contracting official issuing the invitation for bids.

6.6 First article. When first article inspection is required (see 3.1), the contracting office should provide specific guidance to offerors whether the item(s) should be a preproduction sample, a first production sample, or a standard production item from the contractor's current inventory. The contracting officer should include specific instructions in acquisition documents regarding arrangements from examination, approval of the first article test results, and disposition for first articles. Invitations for bids should provide that the Government reserves the right to waive the requirements for samples for first article inspection to those bidders offering a product which has been previously acquired or tested by the Government, and that bidders offering such products, who wish to rely on such production or tests, must furnish evidence with the bid that prior Government approval is presently appropriate for the pending contract.

6.7 Clothing Design and Technical Office. The address for the Clothing Design and Technical Office is as follows for:

- a. The Shade Room
- b. Item Certification

United States Coast Guard  
Clothing Design and Technical Office  
General Greene Avenue  
Building 86  
Natick, MA 01760

6.8 Suggested material sources.

6.8.1 Fastener tape, hook. The hook fastener tape known to meet the requirements of paragraph 3.5.6 is available from:

Velcro USA, Inc. 406 Brown Avenue Manchester, NH 03103 Phone: (800) 225-0180	OR	YKK Corporation of America 1300 Cobb Industrial Avenue Marietta, GA 30066 Phone: (770) 427-5521
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\* 6.9 Changes from previous issue. The margins of this specification are marked with an asterisk (\*) to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notation and relationship to the previous issue.

Custodian: USCG – CDTO

Preparing Activity: USCG – CDTO

**A B C D E F G H I J K L M  
N O P Q R S T U V W X Y Z**

Capital Letter Dimensions*													
	A	B	C	D	E	F	G	H	I	J	K	L	M
Height	19/32	19/32	19/32	19/32	19/32	19/32	19/32	19/32	19/32	19/32	19/32	19/32	19/32
Width**	11/32	5/16	11/32	5/16	9/32	9/32	11/32	5/16	3/32	1/4	9/32	1/4	11/32
	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
Height	19/32	19/32	19/32	19/32	19/32	19/32	19/32	19/32	19/32	19/32	19/32	19/32	19/32
Width**	5/16	11/32	9/32	11/32	5/16	5/16	5/16	5/16	5/16	7/16	5/16	5/16	5/16
Lower Case Letter Dimensions*													
	a	b	c	d	e	f	g	h	i	j	k	l	m
Height	7/16	19/32	7/16	19/32	7/16	19/32	5/8	19/32	19/32	3/4	19/32	19/32	7/16
Width**	9/32	9/32	1/4	1/4	1/4	3/16	9/32	1/4	3/32	1/8	1/4	3/32	3/8
	n	o	p	q	r	s	t	u	v	w	x	y	z
Height	7/16	7/16	5/8	5/8	7/16	7/16	19/32	7/16	7/16	7/16	7/16	5/8	7/16
Width**	1/4	9/32	1/4	1/4	5/32	1/4	3/16	1/4	1/4	3/32	1/4	1/4	1/4

\* The overall thickness of the individual letters shall be a consistent 3/16 +1/16 -0 inch.

\*\* Width measurement it taken at the widest part of the letter.

Embroidery Yarn Cable No. for Style A	67205
---------------------------------------	-------

Tolerances			
Width: 1/8 and below 3/16 to 5/8	+ 1/16, -0 ± 1/16	Height: 3/4	± 1/16

NOTE: All dimensions are in inches. Drawings are for general illustrative purposes only. Drawings do not supersede written requirements. Helsinki lettering is required.

FIGURE 1. Type I, Class 1 – Name Tape: Capital and Lower Case Letter Dimensions

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Special Character Dimensions*													
	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì
Height	3/4	3/4	3/4	3/4	3/4	7/8	19/32	3/4	3/4	3/4	3/4	3/4	3/4
Width**	11/32	11/32	11/32	11/32	11/32	11/32	1/2	11/32	9/32	9/32	9/32	9/32	3/32
	Í	Î	Ï	Ð	Ñ	Ò	Ó	Ô	Õ	Ö	Ø	Ù	Ú
Height	3/4	3/4	3/4	19/32	3/4	3/4	3/4	3/4	3/4	3/4	19/32	3/4	3/4
Width**	3/32	5/32	5/32	11/32	5/16	11/32	11/32	11/32	11/32	11/32	11/32	5/16	5/16
	Û	Ü	Ý	à	á	â	ã	ä	å	æ	ç	è	é
Height	3/4	3/4	3/4	5/8	5/8	5/8	5/8	5/8	11/16	7/16	5/8	5/8	5/8
Width**	5/16	5/16	5/16	9/32	9/32	9/32	9/32	9/32	9/32	11/32	1/4	1/4	1/4
	ê	ë	ì	í	î	ï	ð	ñ	ò	ó	ô	õ	ö
Height	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8	5/8
Width**	1/4	1/4	3/32	3/32	5/32	5/32	9/32	1/4	9/32	9/32	9/32	9/32	9/32
								Period	Dash	Apostrophe			
	ø	ù	ú	û	ü	ý	ÿ	.	-	'			
Height	7/16	5/8	5/8	5/8	5/8	3/4	3/4	1/8	3/32	1/16			
Width**	9/32	1/4	1/4	1/4	1/4	1/4	1/4	3/32	5/32	7/32			

\* The overall thickness of the individual letters shall be a consistent 3/16 +1/16 -0 inch.

\*\* Width measurement it taken at the widest part of the letter.

Embroidery Yarn Cable No. for Style A	67205
---------------------------------------	-------

Tolerances	
Width:	
1/8 and below	+ 1/16, -0
3/16 to 5/8	± 1/16
Height:	
3/4	± 1/16

NOTE: All dimensions are in inches. Drawings are for general illustrative purposes only. Drawings do not supersede written requirements. Helsinki lettering is required.

FIGURE 2. Type I, Class 1 – Name Tape: Special Character Dimensions



U.S. Coast Guard Tape Dimensions*																
	U	Period	S	Period	SPACE	C	O	A	S	T	SPACE	G	U	A	R	D
Height	19/32	1/8	19/32	1/8	-	19/32	19/32	19/32	19/32	19/32	-	19/32	19/32	19/32	19/32	19/32
Width**	5/16	3/32	5/16	3/32	3/16	11/32	11/32	11/32	5/16	5/16	3/16	11/32	5/16	11/32	5/16	5/16

\* The overall thickness of the individual letters shall be a consistent 3/16 +1/16 -0 inch.

\*\* Width measurement it taken at the widest part of the letter.

Embroidery Yarn Cable No. for Style A	67205
---------------------------------------	-------

Tolerances	
Width:	
1/8 and below	+ 1/16, -0
3/16 to 5/8	± 1/16
Height:	
3/4	± 1/16

NOTE: All dimensions are in inches. Drawings are for general illustrative purposes only. Drawings do not supersede written requirements. Helsinki lettering is required.

FIGURE 3. Type I, Class 2 – U.S. Coast Guard Tape, Letter and Tape Dimensions

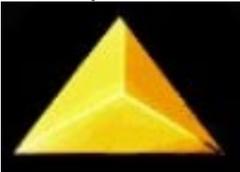
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Design	Design Component	Embroidery Yarn Cable No. for Style A	Design Dimensions		Tape Dimensions	
			Height	Width	Height	Width
Command – Afloat 	Shield and Anchor Balance of	67116 67104	13/16	13/16	1	8
Command – Ashore 	Shield and Anchor Balance of	67116 67104	3/4	15/16	1	8
Officer-In-Charge – Afloat 	Entirety of	67116	13/16	3/4	1	8
Officer-In-Charge – Ashore 	Entirety of	67116	13/16	3/4	1	8

Tolerances			
Designs:		Tape:	
Height	± 1/16	Height	± 1/16
Width	± 1/16	Width	± 1/8

FIGURE 4. Type I, Class 3, Subclass 1 – Identification Breast Tapes: Design and Tape Dimensions

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Design	Embroidery Yarn Cable No. for Style A	Design Dimensions		Tape Dimensions	
		Height	Width	Height	Width
Chief of Party * 	67104	21/32	13/16	1	8
Command-At-Sea 	67104	3/4	3/4	1	8
Small Craft Command-At-Sea 	67147	3/4	3/4	1	8

\* NOTE: The finished embroidery will appear as a three dimensional equilateral triangle with a raised center and each side measuring 13/16 inch.

Tolerances	
Designs:	
Height	± 1/16
Width	± 1/16
Tape:	
Height	± 1/16
Width	± 1/8

FIGURE 5. Type I, Class 3, Subclass 1 – Identification Breast Tapes for the National Oceanic and Atmospheric Administration: Design and Tape Dimensions

Design	Design Component	Embroidery Yarn Cable No. by Style			Design Dimensions		Tape Dimensions	
		Style A	Style B		Height	Width	Height	Width
			Desert	Woodland				
Boat Force Operations Basically Qualified 	Entirety of	67116	67138	67138	13/16	2 3/8	1 1/4	8
Advanced Qualifications 	Compass Rose Balance of	67104 67116	67196 67138	67196 67138	13/16	2 3/8	1 1/4	8
Company Commander 	Entirety of	67104	-	-	15/16	2	1 1/4	8
Coxswain 	Entirety of	67116	67138	67138	3/4	2	1	8

Tolerances			
Designs:		Tape:	
Height	± 1/16	Height	± 1/16
Width	± 1/16	Width	± 1/8

FIGURE 6. Type I, Class 3, Subclass 2 – Qualification Breast Tapes: Design and Tape Dimensions

Design	Embroidery Yarn Cable No. by Style			Design Dimensions		Tape Dimensions	
	Style A	Style B		Height	Width	Height	Width
		Desert	Woodland				
Cutterman Enlisted 	67116	67138	67138	13/16	2 1/2	1 1/4	8
Officer 	67104	67196	67196	13/16	2 1/2	1 1/4	8
Expeditionary Warfare Specialist Enlisted 	67116	-	-	7/8	2 13/16	1 1/4	8
Honor Guard 	67104	-	-	15/16	1 1/2	1 1/4	8

Tolerances			
Designs:		Tape:	
Height	± 1/16	Height	± 1/16
Width	± 1/16	Width	± 1/8

FIGURE 7. Type I, Class 3, Subclass 2 – Qualification Breast Tapes: Design and Tape Dimensions (Continued)

Design	Design Component	Embroidery Yarn Cable No. by Style			Design Dimensions		Tape Dimensions	
		Style A	Style B		Height	Width	Height	Width
			Desert	Woodland				
Law Enforcement Detachment/ Tactical Law Enforcement Team 	Shield Balance of	67116 67104	67138 67196	67138 67196	1	2 3/8	1 1/4	8
Marine Safety Inspector 	Shield Balance of	67116 67104	67196 67138	67196 67138	7/8	2 3/4	1	8
Naval Surface Warfare Enlisted 	Entirety of	67116	-	-	15/16	2 3/4	1 1/4	8
Officer 	Entirety of	67104	-	-	15/16	2 3/4	1 1/4	8

Tolerances			
Designs:		Tape:	
Height	± 1/16	Height	± 1/16
Width	± 1/16	Width	± 1/8

FIGURE 8. Type I, Class 3, Subclass 2 – Qualification Breast Tapes: Design and Tape Dimensions (Continued)

Design	Design Component	Embroidery Yarn Cable No. by Style			Design Dimensions		Tape Dimensions	
		Style A	Style B		Height	Width	Height	Width
			Desert	Woodland				
Physician's Assistant/ Nurse Practitioner 	Shield Caduceus	67104 67116	- -	- -	1 1/8	1	1 3/4	8
Port Security Unit Enlisted 	Entirety of	67116	67138	67138	15/16	2 5/16	1 3/4	8
Officer 	Entirety of	67104	67196	67196	15/16	2 5/16	1 3/4	8
Surfman 	Entirety of	67116	-	-	1	1 1/16	1 1/4	8

Tolerances			
Designs:		Tape:	
Height	± 1/16	Height	± 1/16
Width	± 1/16	Width	± 1/8

FIGURE 9. Type I, Class 3, Subclass 2 – Qualification Breast Tapes: Design and Tape Dimensions (Continued)

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Design	Design Component	Embroidery Yarn Cable No. for Style A	Design Dimensions		Tape Dimensions	
			Height	Width	Height	Width
Flight Officer 	Entirety of	67104	3/4	2 7/8	1	8
Aviator 	Entirety of	67104	7/8	2 3/4	1 1/4	8
Aircrew 	Entirety of	67104	3/4	2 7/8	1	8
Flight Surgeon 	Caduceus Balance of	67116 67104	5/8	2 13/16	1	8
Aviation Rescue Swimmer 	Entirety of	67104	13/16	2 13/16	1	8
Mission Specialist 	Anchor and Circle Balance of	67116 67104	3/4	2 3/4	1 1/4	8

Tolerances			
Designs:		Tape:	
Height	± 1/16	Height	± 1/16
Width	± 1/16	Width	± 1/8

FIGURE 10. Type I, Class 3, Subclass 2 – Qualification Breast Tapes – Aviation: Design and Tape Dimensions

Design	Embroidery Yarn Cable Number for Style A	Design Dimensions		Tape Dimensions	
		Height	Width	Height	Width
Diver Second Class 	67116	1	23/32	1 1/4	8
First Class 	67116	1 3/32	1 3/32	1 1/4	8
Master 	67104	1 1/32	1 3/16	1 1/4	8
Design	Embroidery Yarn Cable Number for Style A	Design Dimensions	Design Dimensions	Tape Dimensions	Tape Dimensions
Scuba Diver Enlisted 	67116	1	31/32	1 1/4	8
Officer 	67104	1	31/32	1 1/4	8

Tolerances			
Designs:		Tape:	
Height	± 1/16	Height	± 1/16
Width	± 1/16	Width	± 1/8

FIGURE 11. Type I, Class 3, Subclass 2 – Qualification Breast Tapes – Diver/Scuba Diver: Design and Tape Dimensions

Design	Embroidery Yarn Cable Number for Style A	Design Dimensions		Tape Dimensions	
		Height	Width	Height	Width
NOAA Aviation 	67104	1	2 13/16	1 1/4	8
NOAA Deck Officer 	67104	1 1/16	2 5/8	1 3/8	8
NOAA Diver 	67104	1 1/16	1 1/8	1 1/4	8

Tolerances			
Designs:		Tape:	
Height	± 1/16	Height	± 1/16
Width	± 1/16	Width	± 1/8

FIGURE 12. Type I, Class 3, Subclass 2 – Qualification Breast Tapes – National Oceanic and Atmospheric Administration: Design and Tape Dimensions

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Design	Embroidery Yarn Cable Number by Style			Design Dimensions		Collar Tape Dimensions		Finished Cap Patch Dimensions	
	Style A	Style B		Height	Width	Height	Width	Height	Width
		Desert	Woodland						
Admiral*	67116	67138	67138	11/16	2 25/32	1	5	1 1/4	3 1/4
Vice Admiral*	67116	67138	67138	11/16	2 1/8	1	4 1/2	1 1/4	2 5/8
Rear Admiral Upper Half*	67116	67138	67138	11/16	1 13/32	1	3 1/2	1 1/4	2
Rear Admiral Lower Half*	67116	67138	67138	11/16	11/16	1	2 1/2	1 1/4	1 1/4
Captain**	67116	67138	67138	5/8	1 3/8	1	3 1/2	1 1/4	2 7/8
Commander	67116	67138	67138	7/8	3/4	1 1/4	2 1/2	1 1/4	1 1/4
Lieutenant Commander	67104	67196	67196	7/8	3/4	1 1/4	2 1/2	1 1/4	1 1/4
Lieutenant	67116	67138	67138	15/16	15/16	1 1/4	2 1/2	1 1/2	1 1/2
Lieutenant Junior Grade	67116	67138	67138	15/16	5/16	1 1/4	2 1/2	1 1/2	1
Ensign	67104	67196	67196	15/16	5/16	1 1/4	2 1/2	1 1/2	1
Chief Warrant Officer 2	67104 & 67118	67196 & 67193	67196 & 67133	15/16	5/16	1 1/4	2 1/2	1 1/2	1
Chief Warrant Officer 3	67116 & 67118	67138 & 67193	67138 & 67133	15/16	5/16	1 1/4	2 1/2	1 1/2	1
Chief Warrant Officer 4	67116 & 67118	67138 & 67193	67138 & 67133	15/16	5/16	1 1/4	2 1/2	1 1/2	1
Petty Officer 1 <sup>st</sup> Class	67104 & 67116			1	13/16	1 1/4***	2 1/2***		
Petty Officer 2 <sup>nd</sup> Class	67104 & 67116			7/8	13/16	1 1/4***	2 1/2***		
Petty Officer 3 <sup>rd</sup> Class	67104 & 67116			11/16	13/16	1***	2 1/2***		

\* Denotes stars shall be orientated point to point.

\*\* Denotes a requirement for left and right design.

\*\*\* Measurements are for Style A basic cloth and embroidery yarn cable numbers. For Style B measurements see Figure 14.

Tolerances					
Designs:		Tape:		Patch:	
Height	± 1/16	Height	± 1/16	Height	± 1/16
Width	± 1/16	Width	± 1/8	Width	± 1/16

FIGURE 13. Type I, Class 4, Subclass 1 – Rank Collar Tapes for Style A: ODU, NWU/CGU; and Type II, Class 1 – Rank Cap Patches for Style B (Desert and Woodland): CUU: Design and Tape Dimensions

Design	Embroidery Yarn Cable Number for Style B*	Tape Design Dimensions		Tape Dimensions		Cap Patch Design Dimensions		Finished Cap Patch Dimensions	
		Height	Width	Height	Width	Height	Width	Height	Width
Petty Officer 1 <sup>st</sup> Class	67138	1 3/16	15/16	1 3/4	2 1/2	1 11/16	1 1/4	2 1/4	1 3/4
Petty Officer 2 <sup>nd</sup> Class	67138	1	15/16	1 1/4	2 1/2	1 7/16	1 1/4	2	1 3/4
Petty Officer 3 <sup>rd</sup> Class	67138	13/16	15/16	1	2 1/2	1 3/16	1 1/4	1 3/4	1 3/4

\* Embroidery Yarn Cable Number for Style B applies to both Desert and Woodland basic cloth.

Tolerances					
Designs:		Tape:		Patch:	
Height	± 1/16	Height	± 1/16	Height	± 1/16
Width	± 1/16	Width	± 1/8	Width	± 1/16

FIGURE 14. Type I, Class 4, Subclass 1 – Rank Collar Tapes for Style B (Desert and Woodland): CUU; and Type II, Class 1 – Rank Cap Patches for Style B (Desert and Woodland): CUU: Design and Tape Dimensions

Design	Requirements for Style A					Requirements for Style B Both Desert and Woodland							
	Embroidery Yarn Cable No.	Design Dimensions		Tape Dimensions		Embroidery Yarn Cable No.	Design Dimensions		Tape Dimensions		Finished Cap Patch Dimensions		
		Height	Width	Height	Width		Height	Width	Height	Width	Height	Width	
Chief Petty Officer					1 3/4	2 1/2		1 5/16	7/8	1 3/4	3	1 7/8	1 3/8
Anchor and Fouling	67104	1	11/16	67138			-	-					
Shield	67116	1/2	3/8	67138			9/16	9/16					
Senior Chief Petty Officer					1 3/4	2 1/2		1 3/4	7/8	2	3	2 1/4	1 3/8
Anchor and Fouling	67104	1 3/16	11/16	67138			-	-					
Shield	67116	1/2	3/8	67138			9/16	9/16					
Star	67116	5/16 diameter		67138			7/16 diameter						
Master Chief Petty Officer					1 3/4	2 1/2		1 7/16	1	1 3/4	3	2	1 1/2
Anchor and Fouling	67104	1	11/16	67138			-	-					
Shield	67116	1/2	3/8	67138			9/16	9/16					
Two Stars	67116	5/16 diameter each		67138			7/16 diameter each						
Master Chief Petty Officer of the Coast Guard					1 3/4	2 1/2		1 13/16	1	1 3/4	3	2 3/8	1 1/2
Anchor and Fouling	67104	1 3/16	11/16	67138			-	-					
Shield	67116	1/2	3/8	67138			9/16	9/16					
Three Stars	67116	5/16 diameter each		67138			7/16 diameter each						

Tolerances			
Designs Overall:		Tape:	
Height	± 1/16	Height	± 1/16
Width	± 1/16	Width	± 1/8
Anchor and Fouling	± 1/16	Cap Patch	
Shield	± 1/32	Height	± 1/16
Star	± 1/32	Width	± 1/16

FIGURE 15. Type I, Class 4, Subclass 1 – Rank Collar Tapes for Style A: ODU, NWU/CGU; and Style B (Desert and Woodland): CUU; and Type II, Class 1 – Rank Cap Patches for Style B (Desert and Woodland): CUU: Design and Tape Dimensions

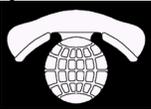
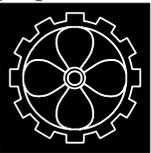
CG/PD 230-20B

Design	Embroidery Yarn Cable Number by Style		Design Dimensions		Tape Dimensions	
	Style A	Style B*	Height	Width	Height	Width
Aviation Engineering 	67104	67138	5/8	1 1/8	1	3
Bandmaster 	67104	67138	7/8	3/4	1 1/4	2 1/2
Boatswain 	67104	67138	3/4	15/16	1	2 1/2
Diver 	67104	67138	1 1/32	1 3/16	1 1/4	3 1/4
Electronics 	67104	67138	1 1/8	1 1/8	1 3/4	2 1/2

\* Embroidery Yarn Cable Number for Style B applies to both Desert and Woodland basic cloth.

Tolerances			
Designs:		Tape:	
Height	± 1/16	Height	± 1/16
Width	± 1/16	Width	± 1/8

FIGURE 16. Type I, Class 4, Subclass 2 – Specialty Collar Tapes for Style A: ODU, NWU/CGU; and Style B (Desert and Woodland): CUU: Design and Tape Dimensions

Design	Embroidery Yarn Cable Number by Style		Design Dimensions		Tape Dimensions	
	Style A	Style B*	Height	Width	Height	Width
Finance and Supply 	67104	67138	3/4	3/4	1	2 1/2
Information Systems Management 	67104	67138	11/16	1 1/4	1	3 1/2
Investigator 	67104	67138	15/16	15/16	1 1/4	2 1/2
Intelligence Systems Specialist 	67104	67138	7/8	15/16	1 1/4	2 1/2
Marine Safety Specialist Engineering 	67104	67138	1	1	1 1/4	3

\* Embroidery Yarn Cable Number for Style B applies to both Desert and Woodland basic cloth.

Tolerances			
Designs:		Tape:	
Height	± 1/16	Height	± 1/16
Width	± 1/16	Width	± 1/8

FIGURE 17. Type I, Class 4, Subclass 2 – Specialty Collar Tapes for Style A: ODU, NWU/CGU; and Style B (Desert and Woodland): CUU: Design and Tape Dimensions (Continued)

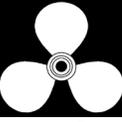
Design	Embroidery Yarn Cable Number by Style		Design Dimensions		Tape Dimensions	
	Style A	Style B*	Height	Width	Height	Width
Marine Safety Specialist Response 	67104	67138	1	7/8	1 1/4	2 1/2
Marine Safety Specialist Deck 	67104	67138	1 1/8	25/32	1 3/4	2 1/2
Maritime Law Enforcement Specialist 	67104	67138	1	3/4	1 1/4	2 1/2
Material Maintenance 	67104	67138	3/4	1	1	3

\* Embroidery Yarn Cable Number for Style B applies to both Desert and Woodland basic cloth.

Tolerances			
Designs:		Tape:	
Height	± 1/16	Height	± 1/16
Width	± 1/16	Width	± 1/8

FIGURE 18. Type I, Class 4, Subclass 2 – Specialty Collar Tapes for Style A: ODU; and NWU/CGU; and Style B (Desert and Woodland): CUU: Design and Tape Dimensions (Continued)

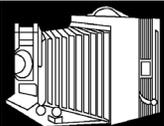
CG/PD 230-20B

Design	Embroidery Yarn Cable Number by Style		Design Dimensions		Tape Dimensions	
	Style A	Style B*	Height	Width	Height	Width
Medical Administration 	67104	67138	15/16	1	1 1/4	2 1/2
Naval Engineering 	67104	67138	15/16	15/16	1 1/4	2 1/2
Operations Systems Specialist 	67104	67138	7/8	1 1/4	1 1/4	3 1/2
Personnel Administration 	67104	67138	3/4	3/4	1	2 1/2
Port Safety and Security 	67104	67138	1	3/4	1 1/4	2 1/2

\* Embroidery Yarn Cable Number for Style B applies to both Desert and Woodland basic cloth.

Tolerances			
Designs:		Tape:	
Height	± 1/16	Height	± 1/16
Width	± 1/16	Width	± 1/8

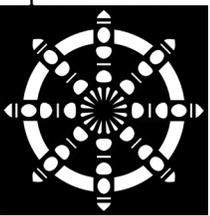
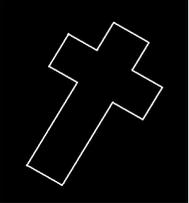
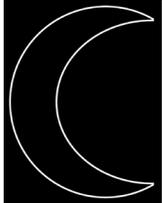
FIGURE 19. Type I, Class 4, Subclass 2 – Specialty Collar Tapes for Style A: ODU, NWU/CGU; and Style B (Desert and Woodland): CUU: Design and Tape Dimensions (Continued)

Design	Embroidery Yarn Cable Number by Style		Design Dimensions		Tape Dimensions	
	Style A	Style B*	Height	Width	Height	Width
Public Information 	67104	67138	11/16	15/16	1	2 1/2
Weapons 	67104	67138	1	13/16	1 1/4	2 1/2

\* Embroidery Yarn Cable Number for Style B applies to both Desert and Woodland basic cloth.

Tolerances			
Designs:		Tape:	
Height	± 1/16	Height	± 1/16
Width	± 1/16	Width	± 1/8

FIGURE 20. Type I, Class 4, Subclass 2 – Specialty Collar Tapes for Style A: ODU, NWU/CGU; and Style B (Desert and Woodland): CUU: Design and Tape Dimensions (Continued)

Design	Embroidery Yarn Cable Number		Design Dimensions		Tape Dimensions		Design	Embroidery Yarn Cable Number		Design Dimensions		Tape Dimensions	
	Style A	Style B*	Height	Width	Height	Width		Style A	Style B*	Height	Width	Height	Width
Chaplain – Buddhist 	67104	67138	13/16	13/16	1 1/4	2 1/2	Chaplain – Jewish 	67104	67138	1	1/2	1 1/4	2 1/2
Chaplain – Christian 	67104	67138	13/16	5/8	1 1/4	2 1/2	Chaplain – Muslim 	67104	67138	13/16	9/16	1 1/4	2 1/2

\* Embroidery Yarn Cable Number for Style B applies to both Desert and Woodland basic cloth.

NOTE: See 3.6.3.1.2 for Type II, Class 2 Loop Tab Patch finished dimensions.

Tolerances					
Designs:		Tape:		Patch:	
Height	± 1/16	Height	± 1/16	Height	± 1/16
Width	± 1/16	Width	± 1/8	Width	± 1/16

FIGURE 21. Type I, Class 4, Subclass 3 – Identification Collar Tapes for Style A: ODU, NWU/CGU, and Style B (Desert and Woodland): CUU; and Type II, Class 2, Subclass 1 – Identification Loop Tab Patches for Style A: ODU, NWU/CGU, and Style C: Parka Foul/Wet Weather: Design and Tape Dimensions

Design	Design Component	Embroidery Yarn Cable Number for Style A	Design Dimensions		Tape Dimensions	
			Height	Width	Height	Width
United States Public Health Services 	Entirety of	67104	1 1/16	1 1/16	1 3/4	3 1/2
United States Public Health Services Field Medical Readiness 	Caduceus, Anchor and Chain Cross	67104 67116	1	1	1 1/4	3

NOTE: See 3.6.3.1.2 for Type II, Class 2 Loop Tab Patch finished dimensions.

Tolerances					
Designs:		Tape:		Patch:	
Height	± 1/16	Height	± 1/16	Height	± 1/16
Width	± 1/16	Width	± 1/8	Width	± 1/16

FIGURE 22. Type I, Class 4, Subclass 3 – Identification Collar Tapes – United States Public Health Services, and Type II, Class 2, Subclass 1 – Identification Loop Tab Patch for Style A: ODU, NWU/CGU, and Style C: Parka Foul/Wet Weather: Design and Tape Dimensions

CG/PD 230-20B

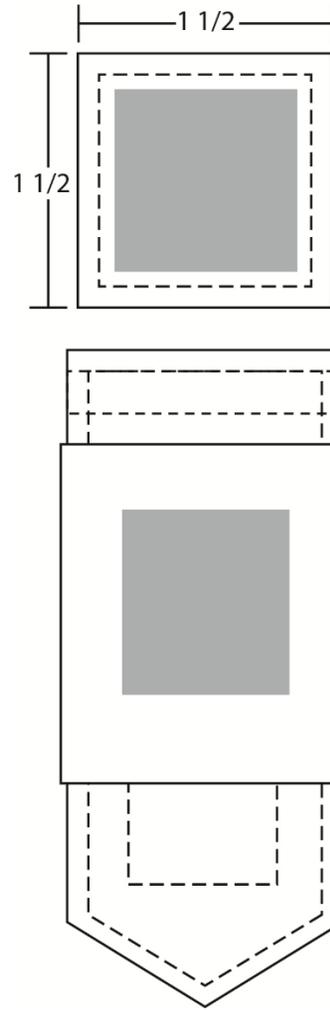


FIGURE 23. Type II, Class 2, Subclass 1 – Loop Tab Patch: Finished Dimensions and Placement

CG/PD 230-20B

Design	Embroidery Yarn Cable Number	Design Dimensions		Tape Dimensions	
	Style A	Height	Width	Height	Width
Coast Guard Police Department 	67104	3/8	1 3/8	1	3 1/2
Coast Guard Security Forces 	67104	3/8	1 5/16	1	3 1/2
Coast Guard Officer Trainee 	67116	21/32	1	1	3

Tolerances			
Designs:		Tape:	
Height	± 1/16	Height	± 1/16
Width	± 1/16	Width	± 1/8

FIGURE 24. Type I, Class 4, Subclass 3 – Identification Collar Tapes for Style A: ODU, and NWU/CGU

Designs			
Master Chief Petty Officer of the Coast Guard – MCPOCG 	Master Chief Petty Officer – AREA 	Master Chief Petty Officer of the Reserve – MCPO-CGR 	Master Chief Petty Officer – DCO 
Master Chief Petty Officer – COMMAND 	Master Chief Petty Officer – DEPUTY 	Master Chief Petty Officer – DCMS 	
Embroidery Yarn Cable Numbers for Style A			
Background for letters, shield, stars	Sky Blue	67116	
Letters	Gray	67200	
Background for body of badge	Gold	67108	
Anchor with fouling and border chain	Yellow	67103	
Dimensions			
Design		Tape	
Height	Width	Height	Width
1 7/8	1 7/16	2 1/4	8
Tolerances			
± 1/16	± 1/16	± 1/16	± 1/8

FIGURE 25. Type I, Class 3, Subclass 1 – Identification Command Badge Breast Tapes: Design and Tape Dimensions

Designs			
Master Chief Petty Officer - COMMAND  	Master Chief Petty Officer – UNIT  	Senior Chief Petty Officer – COMMAND  	
Embroidery Yarn Cable Numbers for Style A			
Background for letters, shield, stars	Sky Blue	67116	
Letters	Gray	67200	
Background for body of badge	Gold	67108	
Anchor with fouling and border chain	Yellow	67103	
Dimensions			
Design		Tape	
Height	Width	Height	Width
1 7/8	1 7/16	2 1/4	8
Tolerances			
± 1/16	± 1/16	± 1/16	± 1/8

FIGURE 26. Type I, Class 3, Subclass 1 – Identification Command Badge Breast Tapes: Design and Tape Dimensions (Continued)

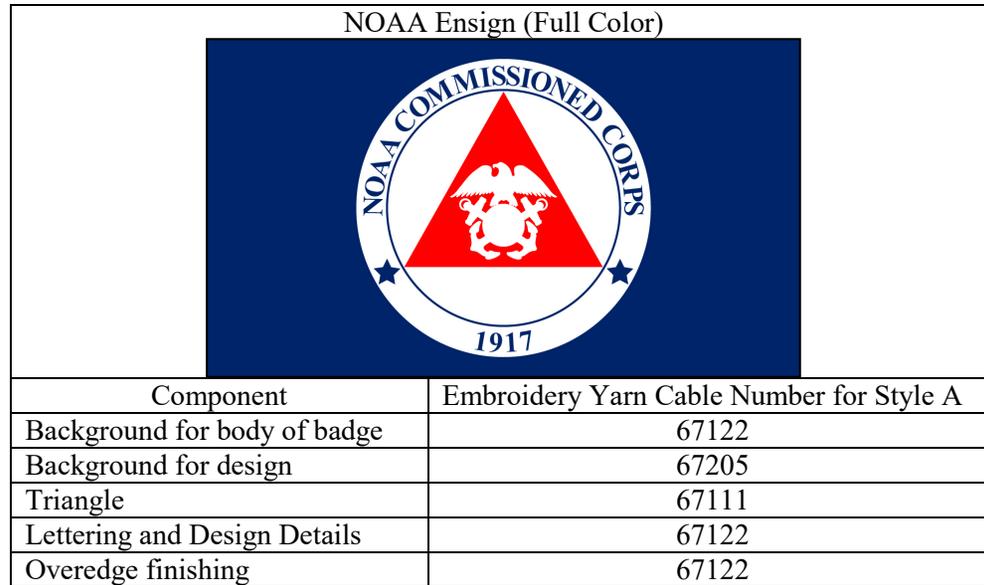
Design			
Master Chief Petty Officer – RFMC			
			
Embroidery Yarn Cable Numbers for Style A			
Background for letters, shield, stars	Sky Blue	67116	
Letters	Gray	67200	
Background for body of badge	Cobalt Blue	67122	
Anchor with fouling and border chain	Yellow	67103	
Dimensions			
Design		Tape	
Height	Width	Height	Width
1 7/8	1 7/16	2 1/4	8
Tolerances			
± 1/16	± 1/16	± 1/16	± 1/8

FIGURE 27. Type I, Class 3, Subclass 1 – Identification Command Badge Breast Tapes: Design and Tape Dimensions (Continued)

<p>American Flag: White and Blue (Auxiliary)</p>		<p>American Flag: Gray and Blue (CG Active Duty)</p>	
<p>Auxiliary Ensign (White and Blue)</p>		<p>* CG Ensign: Gray and Blue</p>	
Component	Embroidery Yarn Cable Number for Style A	Component	Embroidery Yarn Cable Number for Style A
Background for body of badge	67122	Background for body of badge	67122
Stripes	67205	Stripes	67137
Stars	67205	Stars	67137
Lettering and Design Details	67205	Design Details	67137
Overedge finishing	67122	Overedge finishing	67122

Finished Dimensions		Tolerances
Height	2 1/4	± 1/16
Width	4	± 1/16

FIGURE 28. Type II, Class 3 – Sleeve Patch for NWU/CGU: Design and Dimensions



Finished Dimensions		Tolerances
Height	2 1/4	± 1/16
Width	4	± 1/16

FIGURE 29. Type II, Class 3 – Sleeve Patch for NWU/CGU: Design and Dimensions



Designs*					
Master Chief Petty Officer of the Coast Guard – MCPOCG Master Chief Petty Officer of the Reserve Force – MCPOCGRF Master Chief Petty Officer – AREA Master Chief Petty Officer – COMMAND Master Chief Petty Officer - RFMC		Master Chief Petty Officer – UNIT Senior Chief Petty Officer – COMMAND Senior Chief Petty Officer – UNIT Chief Petty Officer – UNIT Chief Petty Officer - COMMAND			
Overall Finished Dimensions		Tolerance	Component	Embroidery Yarn Cable Number for Style B	
				Desert	Woodland
Height	1 3/4	± 1/16	Background for letters, shield, stars	67193	67133
Width	1 5/16	± 1/16	Letters	67138	67138
			Background for body of badge	67193	37133
			Anchor with fouling and border chain	67138	67138
			Overedge finishing	67193	67133

FIGURE 30. Type III, Class 1 – Identification Command Badge Badges for Style B (Desert and Woodland): CUU: Design and Dimensions

Design	Embroidery Yarn Cable Numbers for Styles A and C	Design Dimensions	
		Height	Width
Admiral*	67116	1 3/4	1/2
Vice Admiral*	67116	1 3/8	1/2
Rear Admiral Upper Half*	67116	7/8	1/2
Rear Admiral Lower Half*	67116	1/2	1/2
Captain**	67116	5/8	1 3/8
Commander	67116	7/8	3/4
Lieutenant Commander	67104	7/8	3/4
Lieutenant	67116	15/16	7/8
Lieutenant Junior Grade	67116	15/16	5/16
Ensign	67104	15/16	5/16
Chief Warrant Officer 2	67104 and 67118	15/16	5/16
Chief Warrant Officer 3	67116 and 67118	15/16	5/16
Chief Warrant Officer 4	67116 and 67118	15/16	5/16
Petty Officer 1 <sup>st</sup> Class	67104 and 67116	1	13/16
Petty Officer 2 <sup>nd</sup> Class	67104 and 67116	3/4	13/16
Petty Officer 3 <sup>rd</sup> Class	67104 and 67116	5/8	13/16

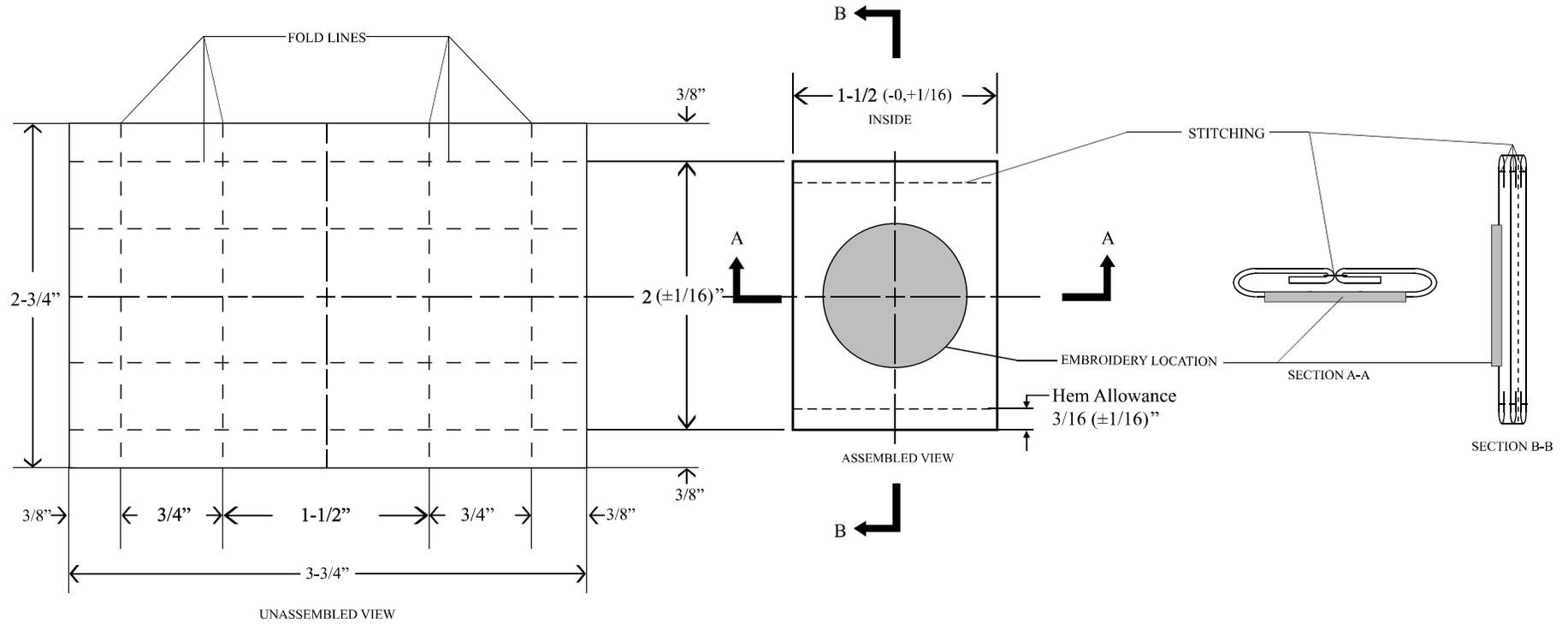
Designs	Embroidery Yarn Cable Numbers for Styles A and C	Design Dimensions	
		Height	Width
Chief Petty Officer			
Anchor and Fouling	67104	1	11/16
Shield	67116	1/2	3/8
Senior Chief Petty Officer			
Anchor and Fouling	67104	1 3/16	11/16
Shield	67116	1/2	3/8
Star	67116	5/16 diameter	
Master Chief Petty Officer			
Anchor and Fouling	67104	1	11/16
Shield	67116	1/2	3/8
Two Stars	67116	5/16 diameter	
Master Chief Petty Officer of the Coast Guard			
Anchor and Fouling	67104	1 3/16	11/16
Shield	67116	1/2	3/8
Three Stars	67116	5/16 diameter	
Officer Trainee	67116	21/32	1

Design Tolerances	
Height	± 1/16
Width	± 1/16

\* Denotes that the star orientation shall be point to center, nested, and vertically stacked. Each star measures 1/2 inch in diameter.

\*\* Denotes that the eagle shall face to the wearer's right hand side.

FIGURE 31. Type IV, Class 1 and 2 – Loops for Style A: NWU/CGU, and Style C: USCG Parka: Foul/Wet Weather: Dimensions



NOTE: The INSIDE width of the finished loop insignia MUST BE NO LESS THAN 1 1/2 inches.

Figure 32. Type IV, Class 1 and 2 – Loops: Construction

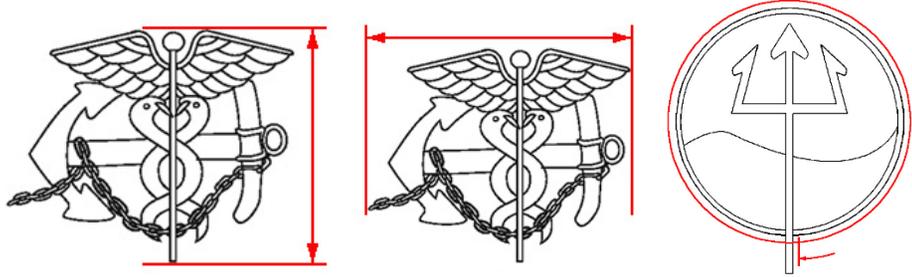
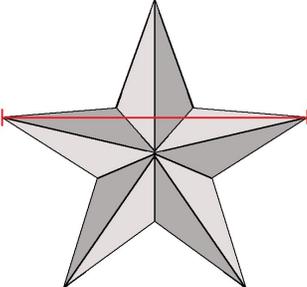
TABLE X. Embroidery File (.DST) List

Classification	Design Name	Stitch File Name	Stitch Count
Type I, Class 3, Subclass 1	Command Afloat	Command Afloat.DST	1,643
	Command Ashore	Command Ashore.DST	2,306
	Officer-In-Charge Afloat	Officer In Charge Afloat.DST	1,555
	Officer-In-Charge Ashore	Officer In Charge Ashore.DST	1,246
	NOAA - Chief of Party	NOAA Chief of Party.DST	803
	NOAA - Command-At-Sea	NOAA Command At Sea.DST	1,863
	NOAA - Small Craft Command-At-Sea		
Type I, Class 3, Subclass 2	Aviation - Rescue Swimmer	Aviation Rescue Swimmer.DST	3,848
	Aviator	Aviator.DST	3,505
	Aircrew	Aircrew.DST	2,993
	Boat Force Operations - Basically Qualified	Boat Force Operations.DST	3,335
	Boat Force Operations - Advanced Qualifications		
	Company Commander	Company Commander.DST	5,509
	Coxswain	Coxswain.DST	3,937
	Cutterman - Enlisted	Cutterman.DST	3,939
	Cutterman - Officer		
	Diver - First Class	First Class Diver.DST	2,442
	Diver - Master/ Diving Officer	Diving Officer.DST	2,945
	Diver - Second Class	Second Class Diver.DST	1,256
	Flight Officer	Flight Officer.DST	3,619
	Flight Surgeon	Flight Surgeon.DST	2,602
	Law Enforcement Detachment/ Tactical Law Enforcement Team	Tactical Law Enforcement.DST	4,721
	Marine Safety Inspector	Marine Safety Inspector.DST	3,010
	Naval Surface Warfare - Enlisted	Naval Surface Warfare.DST	4,826
	Naval Surface Warfare - Officer		
	Physician's Assistant/ Nurse Practitioner	Physicians Assistant - Nurse Practitioner.DST	1,478
	Port Security Unit - Enlisted	Port Security Unit.DST	8,877
	Port Security Unit - Officer		
	Surfman	Surfman.DST	1,292
	Scuba Diver - Enlisted	Scuba Diver.DST	2,196
	Scuba Diver - Officer		

\* TABLE X. Embroidery File (.DST) List (Continued)

Type I, Class 3, Subclass 2 (Continued)	NOAA - Aviation	NOAA Aviation.DST	4,703
	NOAA - Deck Officer	NOAA Deck Officer.DST	5,197
Type I, Class 4, Subclass 1 Type IV, Class 1	Ensign	Ensign - LTJG.DST	891
	Lieutenant Junior Grade		
	Chief Petty Officer	Chief Petty Officer.DST	1,314
	Chief Warrant Officer 2 and Chief Warrant Officer 4	CWO2 – CWO4.DST	786
	Chief Warrant Officer 3	CWO3.DST	723
	Lieutenant	Lieutenant.DST	1,729
	Master Chief Petty Officer	Master Chief Petty Officer.DST	1,570
	Master Chief Petty Officer of the Coast Guard	Master Chief Petty Officer of the Coast Guard.DST	1,713
	Petty Officer 1st Class	Petty Officer 1st Class.DST	1,500
	Petty Officer 2nd Class	Petty Officer 2nd Class.DST	1,279
	Petty Officer 3rd Class	Petty Officer 3rd Class.DST	1,059
	Rear Admiral Lower Half	Rear Admiral LH.DST	481
	Senior Chief Petty Officer	Senior Chief Petty Officer.DST	1,407
	Type I, Class 4, Subclass 2 Type II, Class 1	Information Systems Management	Information Systems Management.DST
Investigator		Investigator.DST	1,016
Marine Safety Specialist - Deck		Marine Safety Specialist Deck.DST	1,147
Maritime Law Enforcement Specialist		Maritime Law Enforcement Specialist.DST	1,215
Medical Administration		Medical Administration.DST	1,212
Operations Systems Specialist		Operations Systems Specialist.DST	889
Type II, Class 3	American Flag – Reverse	TBD	TBD
	Auxiliary Ensign	TBD	TBD
	Coast Guard Ensign	TBD	TBD
	NOAA Ensign	TBD	TBD
Type IV, Class 1	Admiral	Rank Tab Admiral.DST	1,430
	Commander	Rank Tab Commander – Lieutenant Commander.DST	1,424
	Rear Admiral Upper Half	Rank Tab Rear Admiral UH.DST	1,212
	Vice Admiral	Rank Tab Vice Admiral.DST	1,116

TABLE XI. Measurement Guide

Measurement Of	How To Measure	
Embroidered Design	<p>Height – Measure vertically from the bottom most point of the design to the top most point of the design.</p> <p>Width – Measure horizontally from the left most point of the design to the right most point of the design.</p> <p>Circumference – Measure from a starting point around the arc of the circle to the starting point.</p>	
Embroidered Design Components	<p>Star Diameter – Measure from star tip to star tip.</p>	
Design Location	<p>Centered – Measure from the top edge of the insignia to the top edge of the design. Measure from the bottom edge of the insignia to the bottom edge of the design. Both measurements should be equal. Measure from the left edge of the insignia to the left edge of the design. Measure from the right edge of the insignia to the right edge of the design. Both measurements should be equal.</p>	