

Color-Coated Screws and Fasteners

2021



Stake Fastener Company

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Company Background

Stake Fastener Company, an operating division of Dupree, Inc., specializes in the design and manufacture of unique and novel special application color-matched fasteners. Our first products, introduced in the 1950s, were designed for specific aircraft/aerospace applications. Stake Fastener products continue to be found on all major aircraft in service today, as well as in other sectors of the transportation industry such as buses, trucks, trains, and agricultural equipment. Our products are also widely used on electronic instruments, medical and telecommunications devices, and rack-mounted equipment.

Manufacturing Capabilities

Designs are conceived, engineered, tooled, manufactured, assembled, stored, and shipped from our 60,000 sq. ft facility in Chino, California. We have expertise in cold heading, screw machine work, threading, injection molding, and coating processes, and work with customers on a global scale, shipping our products worldwide.

Quality

Stake Fastener Company’s quality management system (QMS) is ISO 9001:2015 and AS9100:2016 registered, enabling us to maintain close control over our manufacturing processes. Our business systems, inventory management, and quality system are fully integrated with an ERP platform, making this information seamless and accessible.

Summary

We welcome all inquiries for similar items not shown in this catalog and enjoy working with designers and engineers to propose recommendations for their particular application needs. Customers are also always welcome to speak with us in person. We have facilities with room to grow.

Note on RoHS Compliancy:
Products that are RoHS-compliant are labeled as such throughout this catalog. RoHS is the Restriction of Hazardous Substances Directive, which restricts the use of certain hazardous substances in electrical and electronic equipment.

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How To Order: Orders may be placed by email, telephone, fax or mail. Call (909) 597-4889, 8:30 a.m.- 4:30 p.m. Pacific Time, Monday through Friday or fax us at (909) 597-3043. To email an order, send it to sales@stakefastener.com.

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PAN-L-SCREWS

Screws with Captive Decorative Nylon Washer, Color-Matched Screw & Washer

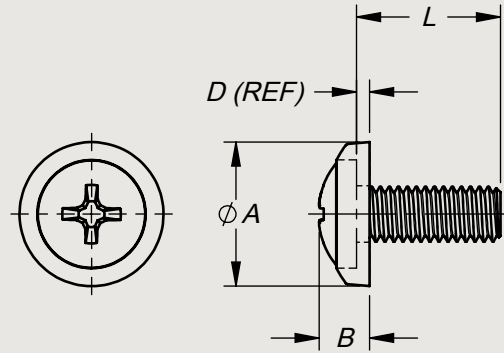
PAN-L-SCREWS are pan head screws with a colored head and captive nylon washer molded in matching color. High tensile steel screws are used to provide maximum resistance to screwdriver damage.

Colored coating material on the screw head withstands normal abrasion, chipping and solvent action. The combination of a hardened base surface and the adhesive qualities of the coating material assure retention of quality appearance after repeated use.

The nylon washer provides a resilient cushion to protect the finished surface of panels and equipment. PAN-L-SCREWS, color-matched to the equipment, blend with the background to eliminate distraction from the information being displayed on the panels.



TYPICAL APPLICATION:
SECURING PANELS AND RACK
MOUNTED EQUIPMENT



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PART NO. EXAMPLE: **PS 10F 8 D S03YE** = PAN-L-SCREW .190-32 X 1/2" LG, ALLOY STEEL, PHILLIPS DRIVE, SEMI-GLOSS YELLOW PER FED-STD-595 NO. 23538

HEAD TYPE	THREAD		L LENGTH													+.00 -.03		+.00 -.06		MATERIAL	COLOR CODE	DIM DATA ±.020		
	CODE	SIZE	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	7/8	1	1 1/8	1 1/4	A	B	D					
PS	2C	.086-56 UNC-3A	3	4	5	6	7	8										D ALLOY STEEL PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115	.250	.096	.034		
	4C	.112-40 UNJC-3A	3	4	5	6	7	8	9	10	11	12	14	16			.312			.117	.037			
	6C	.138-32 UNJC-3A	3	4	5	6	7	8	9	10	11	12	14	16			.375			.137	.040			
	8C	.164-32 UNJC-3A	3	4	5	6	7	8	9	10	11	12	14	16			.438			.158	.043			
	10F	.190-32 UNJF-3A		4	5	6	7	8	9	10	11	12	14	16	18	20	.500			.179	.046			
	12C	.216-24 UNC-3A					7	8	9	10	11	12	14	16	18	20	.562			.201	.050			
	14F	.250-28 UNJF-3A						8	9	10	11	12	14	16	18	20	.625			.232	.057			

FEATURES:

1. The one piece screw and captive washer simplifies handling, installation and removal of attachment hardware.
2. Attachment hardware, color-matched with the mounting surface eliminates distraction from the information display by blending with the background.
3. Screw heads are formed by cold forging, followed by a heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
4. The thermosetting coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
5. The nylon washer provides a resilient cushion to protect the finished surface of panels and equipment.
6. A self-locking feature to prevent vibration from loosening the screw is achieved by the compression effect of the nylon washer between the screw head and the panel.
7. A seal for moisture, low pressure gases and vapors can be affected between the screw head and the panel surface by the compression of the nylon washer.

NOTES:

1. The screws listed in this series reflect aircraft quality with emphasis on the

forming of the Phillips recess to meet design specification.

2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.
3. Inventory of all sizes listed in the table and stock colors listed in the forward section of this catalog are carried in stock to assure short lead times. Lengths not listed are also available on order.
4. For color-coated screw less washer, omit the letter **P** from the head type code.

SPECIFICATIONS:

1. Screws meet all requirements of NAS600 series, including thread size .086-56 and .216-24 which are not listed as part of the NAS specification.
2. Screws are stocked cadmium plated per QQ-P-416, Type II, Class 2.
3. Threads are in conformance with MIL-S-8879, except parts with thread codes "2C" & "12C" which are IAW MIL-S-7742.
4. Pan-L-Screws are suitable for applications with temperatures up to 250°F.
5. Washer color is achieved by molding with pigmented nylon per ASTM D4066.
6. Screw head coating and washer colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

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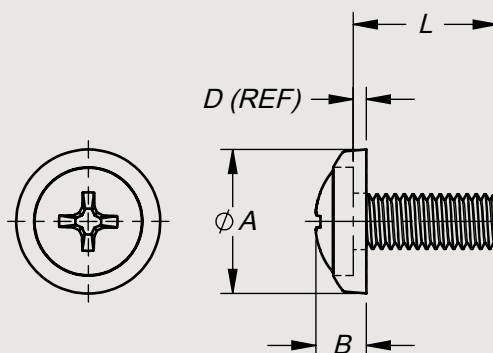


PAN-L-SCREW

COLOR HEAD, MACHINE THREAD,
ALLOY STEEL



TYPICAL APPLICATION:
SECURING PANELS AND RACK
MOUNTED EQUIPMENT



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PART NO. EXAMPLE: **PS 10F 8 CP S06YE** = PAN-L-SCREW, .190-32 X 1/2" LG, CORROSION RESISTANT STEEL, PHILLIPS DRIVE, SEMI-GLOSS YELLOW PER FED-STD-595 NO. 23594

HEAD TYPE	THREAD		L LENGTH										MATERIAL	COLOR CODE	DIM DATA ±.020		
	CODE	SIZE	1/4	5/16	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1			A	B	D
PS	2C	.086-56 UNC-2A	4	5	6	7	8						CP CRES PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115	.250	.096	.034
	4C	.112-40 UNC-2A	4	5	6	7	8	9	10	12	14	16			.312	.117	.037
	6C	.138-32 UNC-2A	4	5	6	7	8	9	10	12	14	16			.375	.137	.040
	8C	.164-32 UNC-2A		5	6	7	8	9	10	12	14	16		* POLISHED SCREW WITH NATURAL WASHER = G02NA	.438	.158	.043
	10C	.190-24 UNC-2A			6	7	8	9	10	12	14	16	20		.500	.179	.046
	10F	.190-32 UNF-2A			6	7	8	9	10	12	14	16	20		.500	.179	.046
	14C	.250-20 UNC-2A					8	9	10	12	14	16	20		.625	.232	.057

FEATURES:

1. The one piece screw and captive washer simplifies handling, installation and removal of attachment hardware.
2. Attachment hardware, color-matched with the mounting surface eliminates distraction from the information display by blending with the background.
3. Screw heads are formed by cold forging, which increases the basic tensile strength of the corrosion resistant steel by 25%. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
4. The thermosetting coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
5. The nylon washer provides a resilient cushion to protect the finished surface of panels and equipment.
6. A self-locking feature to prevent vibration from loosening the screw is achieved by the compression effect of the nylon washer between the screw head and the panel.
7. A seal for moisture, low pressure gases and vapors can be affected between the screw head and the panel surface by the compression of the nylon washer.

NOTES:

1. The screws listed in this series reflect aircraft quality with emphasis on

the forming of the Phillips recess to meet design specification.

2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.
3. Inventory of all sizes listed in the table and stock colors listed in the forward section of this catalog are carried in stock to assure short lead times. Lengths not listed are also available on order.
4. For color-coated screw less washer, omit the letter **P** from the head type code.

SPECIFICATIONS:

1. Screws meet all requirements of MS51957 (UNC-2A) and MS51958 (UNF-2A).
2. Screws are stocked passivated per SAE-AMS2700.
3. Threads are in conformance with H-28 Federal Handbook for threads.
4. Pan-L-Screws are suitable for applications with temperatures up to 250°F.
5. Washer color is achieved by molding with pigmented nylon per ASTM D4066. Natural (translucent) washer is furnished with polished head screw.
6. Screw head coating and washer colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

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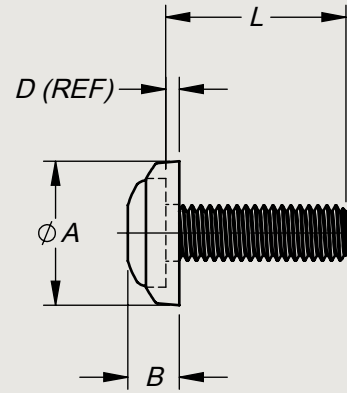
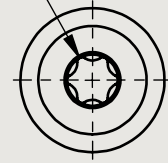
PAN-L-SCREW

COLOR HEAD, MACHINE THREAD,
CRES, RoHS-COMPLIANT



TYPICAL APPLICATION:
SECURING PANELS AND RACK
MOUNTED EQUIPMENT

E - RECESS



ZINC PLATING ON THIS
PART SERIES IS BEING
PHASED OUT IN FAVOR OF
AN RoHS-COMPLIANT ZINC

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PART NO. EXAMPLE: **PS 10F 10 DT S07BL** = PAN-L-SCREW .190-32 X 5/8" LG, ALLOY STEEL, TORX® RECESS, SEMI-GLOSS BLUE PER FED-STD-595 NO. 25109

HEAD TYPE	THREAD		L LENGTH													+.00 -.03		MATERIAL	COLOR CODE	DIM DATA ±.020			
	CODE	SIZE	3/16	1/4	5/16	3/8	7/16	1/2	9/16	5/8	11/16	3/4	7/8	1	1 1/8	1 1/4	A			B	D	E	
PS	2C	.086-56 UNC-2A	3	4	5	6	7	8									DT ALLOY STEEL TORX® RECESS	SEE STOCK COLOR LIST Doc No. SCL870115	.250	.096	.034	T8	
	4C	.112-40 UNC-2A	3	4	5	6	7	8	9	10	11	12	14	16					.312	.117	.037	T10	
	6C	.138-32 UNC-2A	3	4	5	6	7	8	9	10	11	12	14	16					.375	.137	.040	T15	
	8C	.164-32 UNC-2A	3	4	5	6	7	8	9	10	11	12	14	16					.438	.158	.043	T20	
	10F	.190-32 UNF-2A		4	5	6	7	8	9	10	11	12	14	16	18	20			.500	.179	.046	T25	
	12C	.216-24 UNC-2A					7	8	9	10	11	12	14	16	18	20			.562	.201	.050	T27	
	14C	.250-20 UNC-2A						8	9	10	11	12	14	16	18	20			.625	.232	.057	T30	

FEATURES:

- The one piece screw and captive washer simplifies handling, installation and removal of attachment hardware.
- Attachment hardware, color-matched with the mounting surface eliminates distraction from the information display by blending with the background.
- Screw heads are formed by cold forging, followed by a heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
- The thermosetting coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
- The nylon washer provides a resilient cushion to protect the finished surface of panels and equipment.
- A self-locking feature to prevent vibration from loosening the screw is achieved by the compression effect of the nylon washer between the screw head and the panel.
- A seal for moisture, low pressure gases and vapors can be affected between the screw head and the panel surface by the compression of the nylon washer.

NOTES:

- TORX® is a registered trademark of Camcar Textron.
- The screws listed in this series reflect high quality with emphasis on the

forming of the TORX® recess to meet design specification.

- Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.
- The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.
- For color-coated screw less washer, omit the letter **P** from the head type code.

SPECIFICATIONS:

- Screws are in accordance with ASME Standard No. B18.6.3, Recessed Head Machine Screws, except for recess.
- Screws are stocked zinc plated per ASTM B633, Class SC1, Type II.
- Threads are in conformance with H-28 Federal Handbook for threads.
- Pan-L-Screws are suitable for applications with temperatures up to 250°F.
- Washer color is achieved by molding with pigmented nylon per ASTM D4066.
- Screw head coating and washer colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

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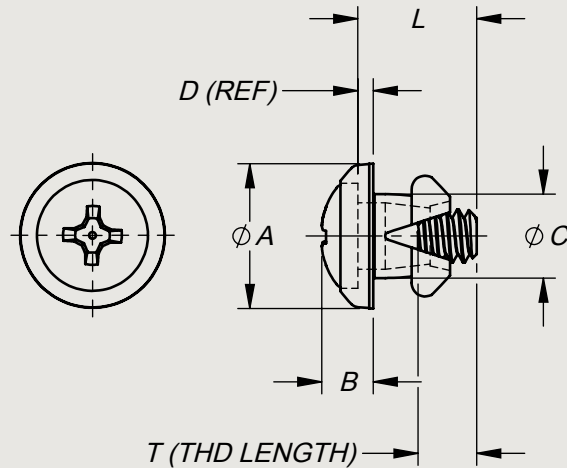


PAN-L-SCREW

COLORED HEAD, MACHINE THREAD,
ALLOY STEEL, TORX® RECESS



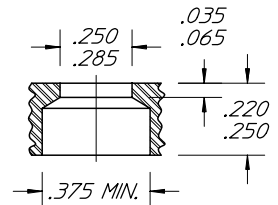
TYPICAL APPLICATION: SECURING EDGE-LIGHTED PANELS



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PART NO. EXAMPLE: **CPS 6C 5 D L06GY** =

CAPTIVE PAN-L-SCREW, .138-32 X
5/16" LG, STEEL, PHILLIPS DRIVE,
LUSTERLESS GRAY PER FED-STD-595
NO. 36492



**MIL-P-7788 PLASTIC
PANEL MOUNTING HOLE**

HEAD TYPE	THREAD		L LENGTH $\begin{smallmatrix} +.00 \\ -.03 \end{smallmatrix}$						MATERIAL	COLOR CODE	DIM DATA			
	CODE	SIZE	T $\pm .010$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{9}{16}$	$\frac{5}{8}$			A $\pm .010$	B $\pm .02$	C $\pm .010$	D $\pm .010$
CPS	6C	.138-32 UNC-3A	.140	5	6	8	9	10	D STEEL PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115	.375	.13	.220	.040

FEATURES:

1. CPS remains captive to the panel when the panel is removed.
2. CPS is color-matched with the mounting surface which eliminates distraction from the information display by blending with the background.
3. Allows up to .06 inch circular mismatch of panel clearance hole alignment with fixed threads in hardware plate.
4. The one piece screw and washer simplifies handling, installation and removal of attachment hardware.
5. May be installed and removed without use of special tools, or damage to either the host panel or the CPS.
6. Screw head is finished with a durable color coating that is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
7. A self-locking feature to prevent vibration from loosening the screw is achieved by the compression effect of the nylon washer between the screw head and the panel.
8. CPS is recommended for use with Type BA or BB pressure displacement STAKE FASTENERS.

NOTES:

1. The screws listed in this series reflect aircraft quality with emphasis on the forming of the Phillips

recess to meet design specification.

2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.

SPECIFICATIONS:

1. The screw head dimensions & recess are based on NAS601 series. The screw material is heat treated alloy steel, 4037, 4140, 4340 or 8740.
2. Screws and captive metal washer are cadmium plated per QQ-P-416, Type II (yellow), Class 2 or zinc plated per ASTM B633, Type II (yellow) Class SC2
3. Threads are in conformance with MIL-S-7742 and H-28 Federal Handbook for threads.
4. CPS is suitable for applications with temperatures up to 250°F.
5. Washer color is achieved by molding with pigmented nylon per ASTM D4066.
6. Screw head coating and washer colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.
7. Captivated metal washer is plated steel.



Captive Pan-L-Screw Assembly



Edge-lighted Panel



Hardware Plate w/Fastener
INSERTION & REMOVAL



CAPTIVE POSITION



TIGHTENED POSITION

STAKE FASTENER CO.

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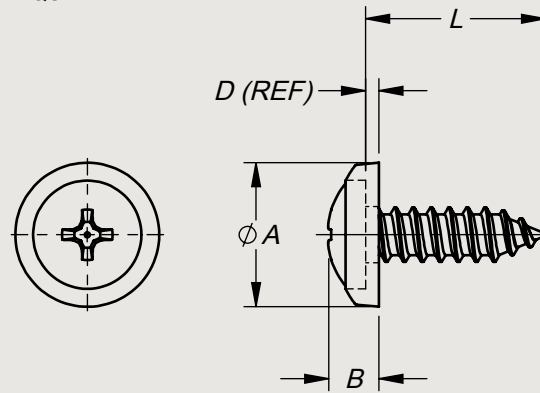


CAPTIVE PAN-L-SCREW

COLORED HEAD, MACHINE THREAD,
ALLOY STEEL



TYPICAL APPLICATION:
SECURING PANELS AND RACK
MOUNTED EQUIPMENT



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PART NO. EXAMPLE: **PS 10SM 10 ZR S04GN** =

PAN-L-SCREW, SHEET METAL, 10-16 X 5/8" LG, STEEL,
RoHS ZINC, PHILLIPS DRIVE, SEMI-GLOSS GREEN PER
FED-STD-595 NO. 24300

HEAD TYPE	THREAD			RECOMMENDED INSTALLATION HOLE SIZE	L LENGTH TOL. ±.03							MATERIAL	COLOR CODE	DIM DATA ±.020		
	CODE	NOMINAL DIAMETER	PITCH		$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1			A	B	D
PS	4SM	4	24	.094	4	6	8	10	12			ZR STEEL PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115	.312	.117	.037
	6SM	6	20	.106	4	6	8	10	12	14	16			.375	.137	.040
	8SM	8	18	.125		6	8	10	12	14	16			.438	.158	.043
	10SM	10	16	.144		6	8	10	12	14	16			.500	.179	.046

FEATURES:

- The one piece screw and captive washer simplifies handling, installation and removal of attachment hardware.
- Attachment hardware, color-matched with the mounting surface eliminates distraction from the information display by blending with the background.
- Screw heads are formed by cold forging, followed by a case hardening and heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
- The thermosetting coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
- The nylon washer provides a resilient cushion to protect the finished surface of panels and equipment.
- A self-locking feature to prevent vibration from loosening the screw is achieved by the compression effect of the nylon washer between the screw head and the mounting surface.
- A seal for moisture, low pressure gases and vapors can be affected between the screw head and the mounting surface by the compression of the nylon washer.
- Type 'AB' thread style offers a fine pitch thread with a sharp gimlet point which aids entry of the Pan-L-Screw where hole misalignment could cause problems.

NOTES:

- The screws listed in this series reflect high quality with emphasis on the forming of the Phillips recess to meet design specification.
- Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.

- The recommended installation hole sizes shown in the table are for light gage (.030) sheet metals. Compensation should be made for other materials and thicknesses. Refer to ANSI B18.6.4, Appendix VI.
- These Pan-L-Screws are capable of forming mating threads in steel plate with a maximum Rockwell hardness of B70-85 without thread shearing or breakage.
- These Pan-L-Screws are primarily intended for application in light sheet metal, plywood, certain plastics or material similar in composition where frequent removal is not necessary. They are not recommended for installation into brittle materials.
- The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.
- For color-coated screw less washer, omit the letter **P** from the head type code.

SPECIFICATIONS:

- Screws are in accordance with ASME Standard No. B18.6.3, Recessed Head Tapping Screws, Type AB.
- Screws are zinc plated per ASTM B633, Class SC1 (min), Type VI-yellow, hexavalent chromium free, RoHS-Compliant.
- Washer color is achieved by molding with pigmented nylon per ASTM D4066.
- Screw head coating and washer colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

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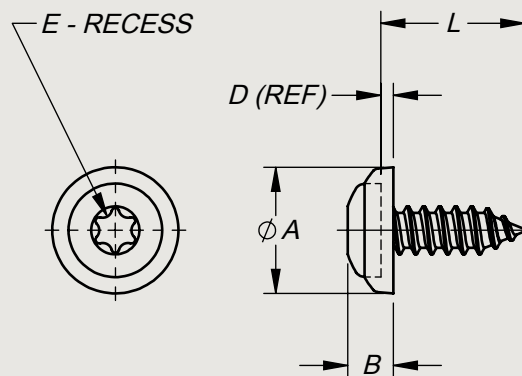
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PAN-L-SCREW
COLORED HEAD, SHEET METAL
THREAD, STEEL,
RoHS-COMPLIANT ZINC



TYPICAL APPLICATION:
SECURING PANELS AND RACK
MOUNTED EQUIPMENT



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PART NO. EXAMPLE: **PS 8SM 8 ZRT S06GY** = PAN-L-SCREW, SHEET METAL, 8-18 X 1/2" LG, STEEL, RoHS ZINC, Torx® RECESS, SEMI-GLOSS GRAY PER FED-STD-595 NO. 26492

HEAD TYPE	THREAD			RECOMMENDED INSTALLATION HOLE SIZE	<i>L</i> LENGTH TOL. ±.03							MATERIAL	COLOR CODE	DIM DATA ±.020			
	CODE	NOMINAL DIAMETER	PITCH		$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1			<i>A</i>	<i>B</i>	<i>D</i>	<i>E</i>
PS	4SM	4	24	.094	4	6	8	10	12			ZRT STEEL Torx® RECESS	SEE STOCK COLOR LIST Doc No. SCL870115	.312	.117	.037	T10
	6SM	6	20	.106	4	6	8	10	12	14	16			.375	.137	.040	T15
	8SM	8	18	.125		6	8	10	12	14	16			.438	.158	.043	T20
	10SM	10	16	.144		6	8	10	12	14	16			.500	.179	.046	T25

FEATURES:

- The one piece screw and captive washer simplifies handling, installation and removal of attachment hardware.
- Attachment hardware, color-matched with the mounting surface eliminates distraction from the information display by blending with the background.
- Screw heads are formed by cold forging, followed by a case hardening and heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
- The thermosetting coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
- The nylon washer provides a resilient cushion to protect the finished surface of panels and equipment.
- A self-locking feature to prevent vibration from loosening the screw is achieved by the compression effect of the nylon washer between the screw head and the mounting surface.
- A seal for moisture, low pressure gases and vapors can be affected between the screw head and the mounting surface by the compression of the nylon washer.
- Type 'AB' thread style offers a fine pitch thread with a sharp gimlet point which aides entry of the Pan-L-Screw where hole misalignment could cause problems.
- The recommended installation hole sizes shown in the table are for light gage (.030) sheet metals. Compensation should be made for other materials and thickness. Refer to ANSI B18.6.4, Appendix VI.
- These Pan-L-Screws are capable of forming mating threads in steel plate with a maximum Rockwell hardness of B70-85 without thread shearing or breakage.
- These Pan-L-Screws are primarily intended for application in light sheet metal, plywood, certain plastics or material similar in composition where frequent removal is not necessary. They are not recommended for installation into brittle materials.
- The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.
- For color-coated screw less washer, omit the letter **P** from the head type code.

SPECIFICATIONS:

- Screws are in accordance with ASME Standard No. B18.6.3, Recessed Head Tapping Screws, Type AB, except for recess.
- Screws are zinc plated per ASTM B633, Class SC1 (min), Type VI-yellow, hexavalent chromium free, RoHS-Compliant.
- Washer color is achieved by molding with pigmented nylon per ASTM D4066.
- Screw head coating and washer color are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

NOTES:

- Torx® is a registered trademark of Camcar Textron.
- The screws listed in this series reflect high quality with emphasis on the forming of the Torx® recess to meet design specification.
- Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.

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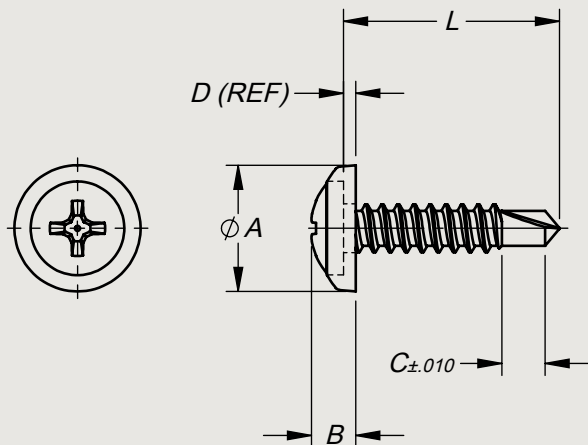


PAN-L-SCREW

COLORED HEAD, SHEET METAL THREAD,
STEEL, TORX® RECESS,
RoHS-COMPLIANT ZINC



**TYPICAL APPLICATION:
SELF-DRILLING APPLICATIONS**



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PART NO. EXAMPLE: **DPSW 10SMB 10 ZR S04GN** = PAN-L-SCREW, SHEET METAL, DRILL POINT 10-16 X 5/8" LG, STEEL, RoHS ZINC, PHILLIPS DRIVE, SEMI-GLOSS GREEN PER FED-STD-595 NO.24300

HEAD TYPE	THREAD			L LENGTH						TOL. ±.016	MATERIAL	COLOR CODE	DIM DATA ±.020			
	CODE	NOMINAL DIAMETER	PITCH	3/8	1/2	5/8	3/4	7/8	1				A	B	C	D
DPSW	6SMB	6	20	6	8	10	12	14	16		ZR STEEL PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115	.375	.137	.125	.040
	8SMB	8	18	6	8	10	12	14	16				.438	.158	.125	.043
	10SMB	10	16		8	10	12	14	16				.500	.179	.156	.046

FEATURES:

1. The one piece screw and captive washer simplifies handling, installation and removal of attachment hardware.
2. Attachment hardware, color-matched with the mounting surface eliminates distraction from the information display by blending with the background.
3. Screw heads are formed by cold forging, followed by a case hardening and heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
4. The thermosetting coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
5. The nylon washer provides a resilient cushion to protect the finished surface of panels and equipment.
6. A self-locking feature to prevent vibration from loosening the screw is achieved by the compression effect of the nylon washer between the screw head and the mounting surface.
7. A seal for moisture, low pressure gases and vapors can be affected between the screw head and the mounting surface by the compression of the nylon washer.
8. The drill point Pan-L-Screw drills a hole, taps, and fastens in steel up to 7/32" thick in one operation. In addition, better thread engagement and a tighter fit to the workpiece is realized since the screw produces the optimum hole size.

NOTES:

1. The screws listed in this series reflect high quality with emphasis on the

forming of the Phillips recess to meet design specification.

2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.
3. These Pan-L-Screws are primarily intended for application in steel up to 7/32" thick or material similar in composition where frequent removal is not necessary. They are not recommended for installation into brittle materials.
4. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.
5. For color-coated screw less washer, omit the letter **W** from the head type code.

SPECIFICATIONS:

1. Screws are in accordance with SAE Standard J78-1979, Self-Drilling Tapping Screws, Type BSD with Style 2 Point.
2. Screws are zinc plated per ASTM B633, Class SC1 (min), Type VI-yellow, hexavalent chromium free, RoHS-Compliant.
3. Washer color is achieved by molding with pigmented nylon per ASTM D4066.
4. Screw head coating and washer color are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

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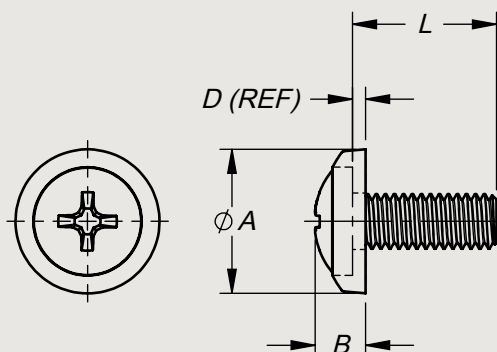
PAN-L-SCREW
COLORED HEAD, SHEET METAL
THREAD, STEEL, DRILL POINT,
RoHS-COMPLIANT ZINC



RoHS
COMPLIANT
2002/95/EC & 2011/65/EU

TYPICAL APPLICATION:
SECURING PANELS AND RACK
MOUNTED EQUIPMENT

DIMENSIONS ARE IN mm



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PART NO. EXAMPLE: **MPS 4M 13 ZR S27GY** = METRIC PAN-L-SCREW, M4 X 0.7 THREADS X 13mm LG, STEEL, RoHS ZINC, PHILLIPS DRIVE, SEMI-GLOSS GRAY PER FED-STD-595 NO. 26314

HEAD TYPE	THREAD			<i>L</i> LENGTH						MATERIAL	COLOR CODE	DIM DATA ±0,50		
	CODE	NOMINAL DIAMETER	PITCH	TOL. ±0,3		TOL. ±0,4		TOL. ±0,5				<i>A</i>	<i>B</i>	<i>D</i>
				8	10	13	16	20	25					
MPS	25M	2,5	0,45	8	10	13	16			ZR STEEL PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115	7,0	2,96	0,86
	3M	3,0	0,5	8	10	13	16					8,0	3,34	0,94
	35M	3,5	0,6	8	10	13	16	20				9,5	3,62	1,02
	4M	4,0	0,7	8	10	13	16	20	25			11,0	4,19	1,09
	5M	5,0	0,8			13	16	20	25			13,0	4,86	1,16
	6M	6,0	1,0			13	16	20	25			15,8	6,05	1,45

FEATURES:

1. The one piece screw and captive washer simplifies handling, installation and removal of attachment hardware.
2. Attachment hardware, color-matched with the mounting surface eliminates distraction from the information display by blending with the background.
3. Screw heads are formed by cold forging which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
4. The thermosetting coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
5. The nylon washer provides a resilient cushion to protect the finished surface of panels and equipment.
6. A self-locking feature to prevent vibration from loosening the screw is achieved by the compression effect of the nylon washer between the screw head and the panel.
7. A seal for moisture, low pressure gases and vapors can be affected between the screw head and the panel surface by the compression of the nylon washer.

NOTES:

1. The screws listed in this series reflect high quality with emphasis on the forming of the Phillips recess to meet design specification.

2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.
3. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.
4. For color-coated screw less washer, order head type code "**MSP**".

SPECIFICATIONS:

1. Screws are in accordance with ANSI/ASME Standard No. B18.6.7M.
2. Screws are zinc plated per ASTM B633, Class SC1 (min), Type VI-yellow, hexavalent chromium free, RoHS-Compliant.
3. Pan-L-Screws are suitable for applications with temperatures up to 250°F.
4. Washer color is achieved by molding with pigmented nylon per ASTM D4066.
5. Screw head coating and washer colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

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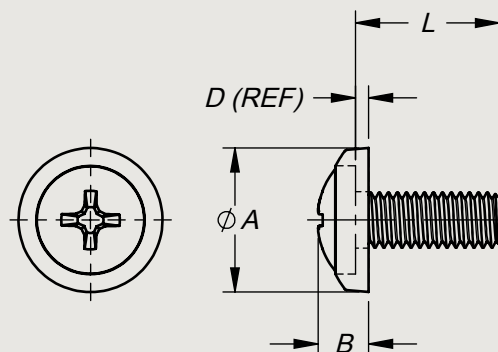
METRIC PAN-L-SCREW

COLORED HEAD, METRIC THREAD,
ALLOY STEEL, RoHS-COMPLIANT ZINC



TYPICAL APPLICATION:
SECURING PANELS AND RACK
MOUNTED EQUIPMENT

DIMENSIONS ARE IN mm



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PART NO. EXAMPLE: **MPS** **5M** **10** **CP** **S11BN** = METRIC PAN-L-SCREW, M5 X 0,8mm THREADS X 10mm LG,
CORROSION RESISTANT STEEL, PHILLIPS DRIVE, SEMI-
GLOSS BROWN PER FED-STD-595 NO. 20140

HEAD TYPE	THREAD			<i>L</i> LENGTH						MATERIAL	COLOR CODE	DIM DATA ±0,50		
	CODE	NOMINAL DIAMETER	PITCH	TOL. ±0,3		TOL. ±0,4		TOL. ±0,5				<i>A</i>	<i>B</i>	<i>D</i>
				8	10	13	16	20	25					
MPS	25M	2,5	0,45	8	10	13	16			CP CRES PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115	7,0	2,96	0,86
	3M	3,0	0,5	8	10	13	16					8,0	3,34	0,94
	35M	3,5	0,6	8	10	13	16	20				9,5	3,62	1,02
	4M	4,0	0,7	8	10	13	16	20	25			11,0	4,19	1,09
	5M	5,0	0,8		10	13	16	20	25			13,0	4,86	1,16
	6M	6,0	1,0			13	16	20	25			15,8	6,05	1,45

FEATURES:

1. The one piece screw and captive washer simplifies handling, installation and removal of attachment hardware.
2. Attachment hardware, color-matched with the mounting surface eliminates distraction from the information display by blending with the background.
3. Screw heads are formed by cold forging which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
4. The thermosetting coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
5. The nylon washer provides a resilient cushion to protect the finished surface of panels and equipment.
6. A self-locking feature to prevent vibration from loosening the screw is achieved by the compression effect of the nylon washer between the screw head and the panel.
7. A seal for moisture, low pressure gases and vapors can be affected between the screw head and the panel surface by the compression of the nylon washer.

NOTES:

1. The screws listed in this series reflect high quality with emphasis on the forming of the Phillips recess to meet design specification.

2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.
3. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.
4. For color-coated screw less washer, order head type code "**MSP**".

SPECIFICATIONS:

1. Screws are in accordance with ASME Standard No. B18.6.7M.
2. Screws are 300 series corrosion resistant steel and are stocked passivated.
3. Pan-L-Screws are suitable for applications with temperatures up to 250°F.
4. Washer color is achieved by molding with pigmented nylon per ASTM D4066.
5. Screw head coating and washer colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

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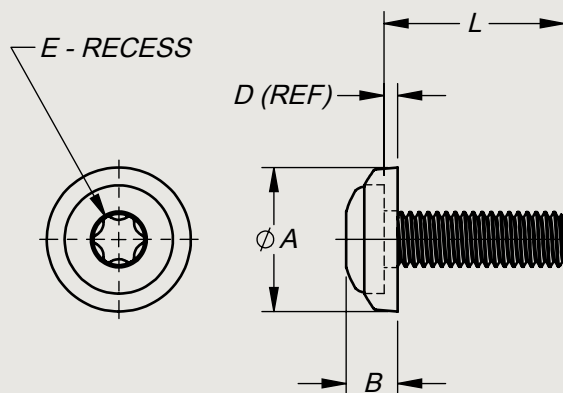
METRIC PAN-L-SCREW

COLORED HEAD, METRIC THREAD,
CRES, RoHS-COMPLIANT



TYPICAL APPLICATION:
SECURING PANELS AND RACK
MOUNTED EQUIPMENT

DIMENSIONS ARE IN mm



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PART NO. EXAMPLE: **MPS** **5M** **10** **CT** **L46GY** = METRIC PAN-L-SCREW, M5 X 0,8mm THREADS X 10mm LG, CORROSION RESISTANT STEEL, TORX® RECESS, LUSTER-LESS GRAY PER FED-STD-595 NO. 36270

HEAD TYPE	THREAD			L LENGTH						MATERIAL	COLOR CODE	DIM DATA ±0,50			
	CODE	NOMINAL DIAMETER	PITCH	TOL. ±0,3		TOL. ±0,4		TOL. ±0,5				A	B	D	E
				8	10	13	16	20	25						
MPS	35M	3,5	0,6	8	10	13	16	20		CT CRES TORX® RECESS	SEE STOCK COLOR LIST Doc No. SCL870115	9,5	3,62	1,02	T15
	4M	4,0	0,7	8	10	13	16	20	25			11,0	4,19	1,09	T20
	5M	5,0	0,8		10	13	16	20	25			13,0	4,86	1,16	T25
	6M	6,0	1,0			13	16	20	25			15,8	6,05	1,45	T30

FEATURES:

1. The one piece screw and captive washer simplifies handling, installation and removal of attachment hardware.
2. Attachment hardware, color-matched with the mounting surface eliminates distraction from the information display by blending with the background.
3. Screw heads are formed by cold forging which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
4. The thermosetting coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
5. The nylon washer provides a resilient cushion to protect the finished surface of panels and equipment.
6. A self-locking feature to prevent vibration from loosening the screw is achieved by the compression effect of the nylon washer between the screw head and the panel.
7. A seal for moisture, low pressure gases and vapors can be affected between the screw head and the panel surface by the compression of the nylon washer.

NOTES:

1. The screws listed in this series reflect high quality with emphasis on the forming of the Torx® recess to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.

3. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.
4. For color-coated screw less washer, order head type code "MSP".

SPECIFICATIONS:

1. Screws are in accordance with ASME Standard No. B18.6.7M, except for the Torx® recess.
2. Screws are 300 series corrosion resistant steel and are stocked passivated.
3. Pan-L-Screws are suitable for applications with temperatures up to 250°F.
4. Washer color is achieved by molding with pigmented nylon per ASTM D4066.
5. Screw head coating and washer colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

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METRIC PAN-L-SCREW

COLORED HEAD, METRIC THREAD,
CRES, TORX® RECESS, RoHS-COMPLIANT

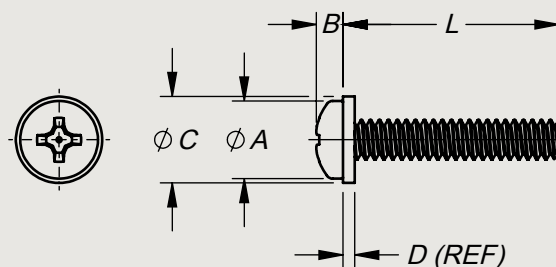
Screws With Captive Washer, Color-Matched

This series of screws offers many of the same features as PAN-L-SCREWS and is intended for applications requiring both flush-mounted hardware and a low profile washer. Such applications include attaching hollow-core honeycomb colored panels in the crew station and interior of aircraft, attaching fabric-covered interior panels such as those found in aircraft interiors, special-purpose vehicles, and similar applications.





TYPICAL APPLICATION:
SECURING INSTRUMENTS WITH
LIMITED SPACE TO DASH PANELS



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PART NO. EXAMPLE: **SCFW 6C 12 D S07BL** =

PAN HEAD SCREW w/CAPTIVE NYLON FLAT WASHER, .138-32 X 3/4" LG, STEEL, PHILLIPS DRIVE, BLUE PER FED-STD-595 NO. 25109

HEAD TYPE	THREAD		L LENGTH				TOLERANCE				+ .00 - .03		+ .00 - .06		MATERIAL	COLOR CODE	DIMENSIONAL DATA			
	CODE	SIZE	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1 1/4	1 1/2					A	B	C	D
SCFW	2C	.086-56 UNC-3A	6	7	8									D ALLOY STEEL CADMIUM PLATED PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115		.167 .155	.062 .053	.198 .168	.039 .029
	4C	.112-40 UNJC-3A	6	7	8	9	10	12	14	16							.219 .205	.080 .070	.250 .220	.042 .032
	6C	.138-32 UNJC-3A	6	7	8	9	10	12	14	16							.270 .256	.097 .087	.300 .270	.045 .035
	8C	.164-32 UNJC-3A	6	7	8	9	10	12	14	16	20	24					.322 .306	.115 .105	.352 .322	.048 .038
	10F	.190-32 UNJF-3A	6	7	8	9	10	12	14	16	20	24					.373 .357	.133 .122	.403 .373	.051 .041

FEATURES:

1. The one piece screw and captive washer simplifies handling, installation and removal of attachment hardware.
2. Attachment hardware, color-matched with the mounting surface eliminates distraction from the information display by blending with the background.
3. Screw heads are formed by cold forging, followed by a heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
4. The nylon washer provides a resilient cushion to protect the finished surface of panels and equipment.
5. A self-locking feature to prevent vibration from loosening the screw is achieved by the compression effect of the nylon washer between the screw head and the panel.
6. A seal for moisture, low pressure gases and vapors can be affected between the screw head and the panel surface by the compression of the nylon washer.

NOTES:

1. The screws listed in this series reflect aircraft quality with emphasis on the forming of the Phillips recess to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.
3. Inventory of all sizes listed in the table and colors listed in the forward section of this catalog are carried in stock to assure prompt deliveries.

SPECIFICATIONS:

1. Screws with Material code "D" meet all requirements of NAS600 series, including thread size .086-56 which is not listed as part of the NAS specification. Screws covered on this document with other than Material code "D" meet all requirements of NAS600 series, except for plating requirements.
2. Plating:
Code "D": cadmium plated in accordance with QQ-P-416, Type II, Class 2.
3. Threads are in conformance with MIL-S-8879 and H-28 Federal Handbook for threads, except parts with thread code "2C" which are in accordance with MIL-S-7742.
4. Screw lengths are expressed in code for 1/16-inch increments. Lengths not listed in above table may be specified. Contact factory to determine availability.
5. These screw/washer assemblies are suitable for applications with temperatures up to 250°F.
6. Washer color is achieved by molding with pigmented nylon per ASTM D4066.
7. Screw head coating and washer colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

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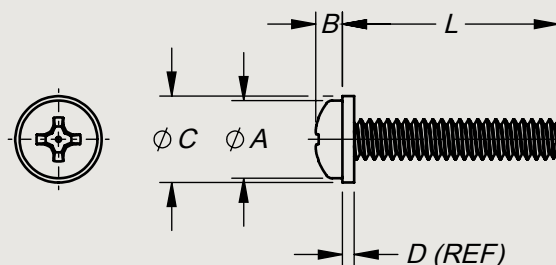


SCREW / FLAT WASHER

COLORED PAN HEAD w/CAPTIVE NYLON
FLAT WASHER, MACHINE THREAD,
ALLOY STEEL



TYPICAL APPLICATION:
SECURING INSTRUMENTS WITH
LIMITED SPACE TO DASH PANELS



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PART NO. EXAMPLE: **SCFW 6C 12 CP S05BN** = PAN HEAD SCREW w/CAPTIVE NYLON FLAT WASHER, .138-32 X 3/4" LG, COR. RES. STEEL, PHILLIPS DRIVE, SEMI-GLOSS BROWN PER FED-STD-595 NO. 20372

HEAD TYPE	THREAD		L LENGTH				TOLERANCE				MATERIAL	COLOR CODE	DIMENSIONAL DATA			
	CODE	SIZE	3/8	7/16	1/2	9/16	5/8	3/4	7/8	1	1 1/4	1 1/2	A	B	C	D
SCFW	2C	.086-56 UNC-2A	6	7	8								.167 .155	.062 .053	.198 .168	.039 .029
	4C	.112-40 UNC-2A	6	7	8	9	10	12	14	16			.219 .205	.080 .070	.250 .220	.042 .032
	6C	.138-32 UNC-2A	6	7	8	9	10	12	14	16	20		.270 .256	.097 .087	.300 .270	.045 .035
	8C	.164-32 UNC-2A	6	7	8	9	10	12	14	16	20		.322 .306	.115 .105	.352 .322	.048 .038
	10C	.190-24 UNC-2A	6	7	8	9	10	12	14	16	20	24	.373 .357	.133 .122	.403 .373	.051 .041
	10F	.190-32 UNF-2A	6	7	8	9	10	12	14	16	20	24	.373 .357	.133 .122	.403 .373	.051 .041

FEATURES:

1. The one piece screw and captive washer simplifies handling, installation and removal of attachment hardware.
2. Attachment hardware, color-matched with the mounting surface eliminates distraction from the information display by blending with the background.
3. Screw heads are formed by cold forging which increases the basic tensile strength of the corrosion resistant steel by 25%. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
4. The nylon washer provides a resilient cushion to protect the finished surface of panels and equipment.
5. A self-locking feature to prevent vibration from loosening the screw is achieved by the compression effect of the nylon washer between the screw head and the panel.
6. A seal for moisture, low pressure gases and vapors can be affected between the screw head and the panel surface by the compression of the nylon washer.

NOTES:

1. The screws listed in this series reflect aircraft quality with emphasis on the forming of the Phillips recess to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the

same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.

3. Inventory of all sizes listed in the table and colors listed in the forward section of this catalog are carried in stock to assure prompt deliveries. Lengths not listed are also available on order.

SPECIFICATIONS:

1. Screws are corrosion resistant steel (CRES) and meet all requirements of MS51957 (UNC-2A) and MS51958 (UNF-2A).
2. Screws are stocked passivated per SAE-AMS-2700.
3. Threads are in conformance with MIL-S-7742 and H-28 Federal Handbook for threads.
4. Screw lengths are expressed in code for 1/16-inch increments. Lengths not listed in above table may be specified, however, contact factory to determine availability.
5. Washer color is achieved by molding with pigmented nylon per ASTM D4066. Natural (translucent) washer is furnished with polished head screw.
6. Screw head coating and washer colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

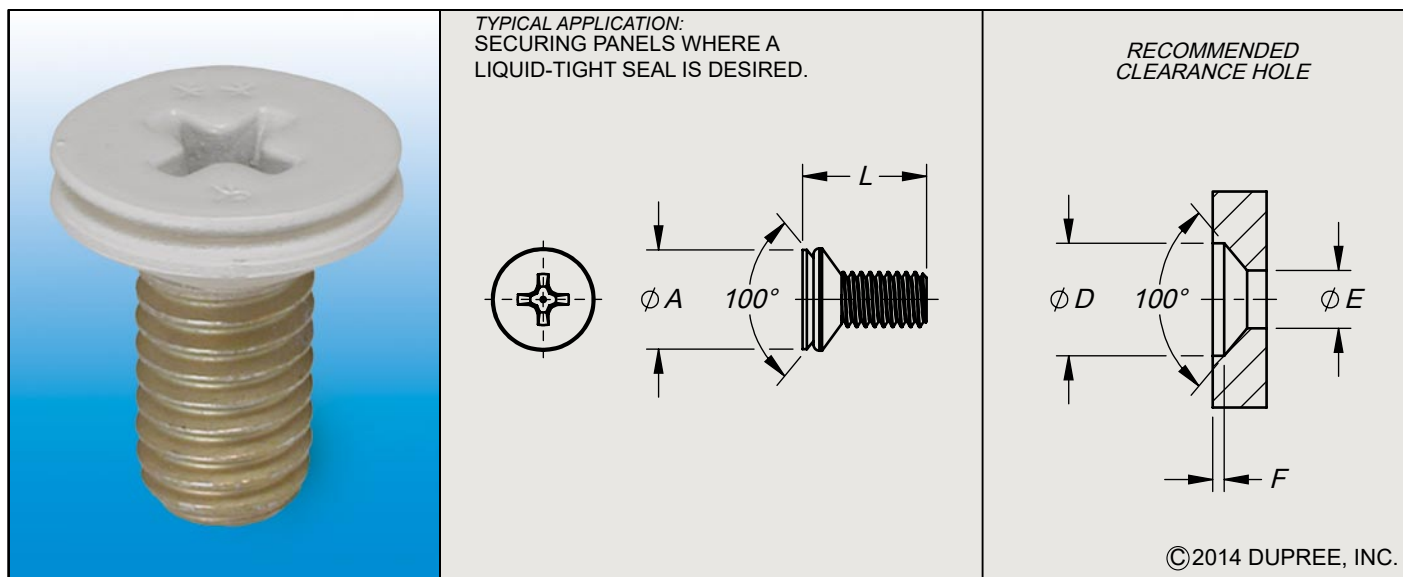
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SCREW / FLAT WASHER

COLOR PAN HEAD w/CAPTIVE NYLON
FLAT WASHER, MACHINE THREAD,
CRES, RoHS-COMPLIANT



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PART NO. EXAMPLE: **FHW 10F 7 D S01WH** =

100° FLAT HEAD SCREW w/CAPTIVE NYLON SEALING WASHER, .190-32 X 7/16" LG, STEEL, PHILLIPS DRIVE, SEMI-GLOSS WHITE PER FED-STD-595 NO. 27875

HEAD TYPE	THREAD (SEE SPECIFICATION FOR CLASS OF THREAD FIT)		L LENGTH							MATERIAL	COLOR CODE	DIMENSIONAL DATA			
	CODE	SIZE	3/8	7/16	1/2	5/8	3/4	7/8	1			A <small>SHARP</small>	D	E	F
FHW	10F	.190-32 UNF	6	7	8	10	12	14	16	CP CRES PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115	.385	.391	.201	.040

FEATURES:

1. Screws are furnished with captive nylon sealing washer. When installed in recommended clearance hole this assembly provides a liquid-tight seal.
2. Screws are furnished with pre-colored heads to match panels and equipment. The coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
3. The thermosetting coating material is both abrasion and solvent resistant. Screw heads are cleaned and prepared for maximum adhesion of the coating material.
4. Screw heads are formed by cold forging which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.

NOTES:

1. The screws listed in this series reflect aircraft quality with emphasis on the forming of the Phillips recess to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.

3. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.

SPECIFICATIONS:

1. Screws with material code **CP** meet all requirements of MS24693. Material is 300 series corrosion resistant steel. Screws are passivated per SAE-AMS-2700. Screws of this material have a class 2A thread fit per FED-STD-H28/2.
2. Washer color matches screw head color and is achieved by molding with pigmented nylon per ASTM D4066.
3. Coating colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.
4. For an assembly with uncoated screw and natural colored sealing washer, order color code **N02NA**.

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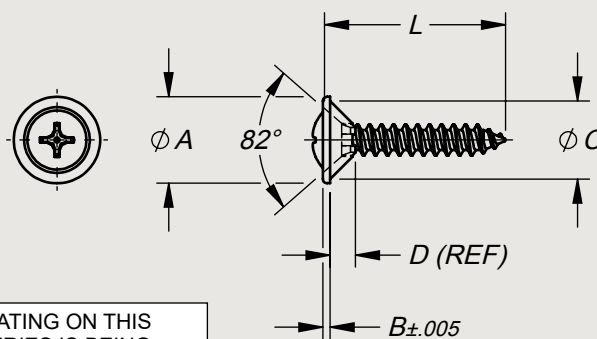
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SEALING SCREW
COLORED 100° FLAT HEAD
w/CAPTIVE NYLON WASHER,
MACHINE THREAD, ALLOY STEEL
& CRES



TYPICAL APPLICATION:
SECURING UPHOLSTERY-COVERED
PANELS



ZINC PLATING ON THIS
PART SERIES IS BEING
PHASED OUT IN FAVOR OF
AN RoHS-COMPLIANT ZINC

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PART NO. EXAMPLE: **OHCW 4SM 10 D S01YE** = 82° OVAL HEAD SCREW w/CAPTIVE NYLON WASHER,
SHEET METAL, 4-24 X 5/8" LG, STEEL, PHILLIPS DRIVE,
SEMI-GLOSS YELLOW PER FED-STD-595 NO. 26555

HEAD TYPE	THREAD			L LENGTH						TOL.±.03	MATERIAL	COLOR CODE	DIM DATA ±.020			
	CODE	NOMINAL DIAMETER	PITCH	1/4	3/8	1/2	5/8	3/4	1				A	B	C	D
OHCW	4SM	4	24	4	6	8	10	12	16		D STEEL PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115	.300	.025	.272	.089

FEATURES:

1. The one piece screw and captive washer simplifies handling, installation and removal of attachment hardware.
2. Attachment hardware, color-matched with the mounting surface eliminates distraction by blending with the background.
3. Screw heads are formed by cold forging, followed by a case hardening and heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
4. The thermosetting coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
5. The nylon washer provides a resilient cushion to protect the finished surface of panels and equipment.
6. A self-locking feature to prevent vibration from loosening the screw is achieved by the compression effect of the nylon washer between the screw head and the mounting surface.
7. A seal for moisture, low pressure gases and vapors can be affected between the screw head and the mounting surface by the compression of the nylon washer.
8. Type 'AB' thread style offers a fine pitch thread with a sharp gimlet point which aids entry of the screw where hole misalignment could cause problems.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.
3. These screw assemblies are capable of forming mating threads in steel plate with a maximum Rockwell hardness of B70-85 without thread shearing or breakage.
4. These screw assemblies are primarily intended for application in light sheet metal, plywood, certain plastics or material similar in composition where frequent removal is not necessary. They are not recommended for installation into brittle materials.
5. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.

SPECIFICATIONS:

1. Screws are in accordance with ANSI/ASME Standard No. B18.6.4, Recessed Head Tapping Screws, Type AB.
2. Screws are stocked zinc plated per ASTM B633, Class SC1, Type II.
3. Washer color is achieved by molding with pigmented nylon per ASTM D4066.
4. Screw head coating and washer colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

NOTES:

1. The screws listed in this series reflect high quality with emphasis on the forming of the Phillips recess to meet design specification.

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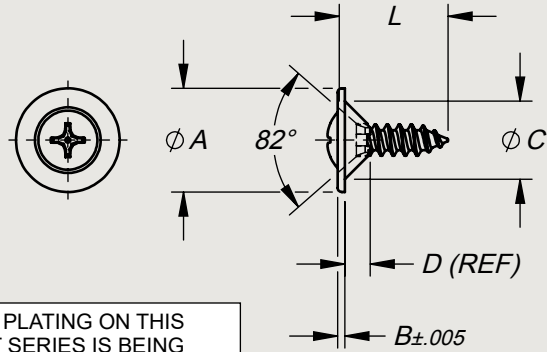


UPHOLSTERY SCREW

COLORED 82° OVAL HEAD
w/CAPTIVE NYLON WASHER,
SHEET METAL THREAD, STEEL



TYPICAL APPLICATION:
SECURING UPHOLSTERY-COVERED
PANELS



ZINC PLATING ON THIS
PART SERIES IS BEING
PHASED OUT IN FAVOR OF
AN RoHS-COMPLIANT ZINC

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PART NO. EXAMPLE: **OHCWL 4SM 6 D S42GY** =

82° OVAL HEAD SCREW w/CAPTIVE LARGE O.D. NYLON
WASHER, SHEET METAL, 4-24 X 3/8" LG, STEEL, PHILLIPS
DRIVE, SEMI-GLOSS GRAY PER FED-STD-595 NO. 26622

HEAD TYPE	THREAD			L LENGTH						TOL.±.03	MATERIAL	COLOR CODE	DIM DATA ±.020			
	CODE	NOMINAL DIAMETER	PITCH	1/4	3/8	1/2	5/8	3/4	1				A	B	C	D
OHCWL	4SM	4	24	4	6	8	10	12	16		D STEEL PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115	.360	.025	.272	.089

FEATURES:

1. The one piece screw and captive washer simplifies handling, installation and removal of attachment hardware.
2. Attachment hardware, color-matched with the mounting surface eliminates distraction by blending with the background.
3. Screw heads are formed by cold forging, followed by a case hardening and heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
4. The thermosetting coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
5. The nylon washer provides a resilient cushion to protect the finished surface of panels and equipment.
6. A self-locking feature to prevent vibration from loosening the screw is achieved by the compression effect of the nylon washer between the screw head and the mounting surface.
7. A seal for moisture, low pressure gases and vapors can be affected between the screw head and the mounting surface by the compression of the nylon washer.
8. Type 'AB' thread style offers a fine pitch thread with a sharp gimlet point which aids entry of the screw where hole misalignment could cause problems.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.
3. These screw assemblies are capable of forming mating threads in steel plate with a maximum Rockwell hardness of B70-85 without thread shearing or breakage.
4. These screw assemblies are primarily intended for application in light sheet metal, plywood, certain plastics or material similar in composition where frequent removal is not necessary. They are not recommended for installation into brittle materials.
5. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.

SPECIFICATIONS:

1. Screws are in accordance with ASME Standard No. B18.6.3, Recessed Head Tapping Screws, Type AB.
2. Screws are stocked zinc plated per ASTM B633, Class SC1, Type II.
3. Washer color is achieved by molding with pigmented nylon per ASTM D4066.
4. Screw head coating and washer colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

NOTES:

1. The screws listed in this series reflect high quality with emphasis on the forming of the Phillips recess to meet design specification.

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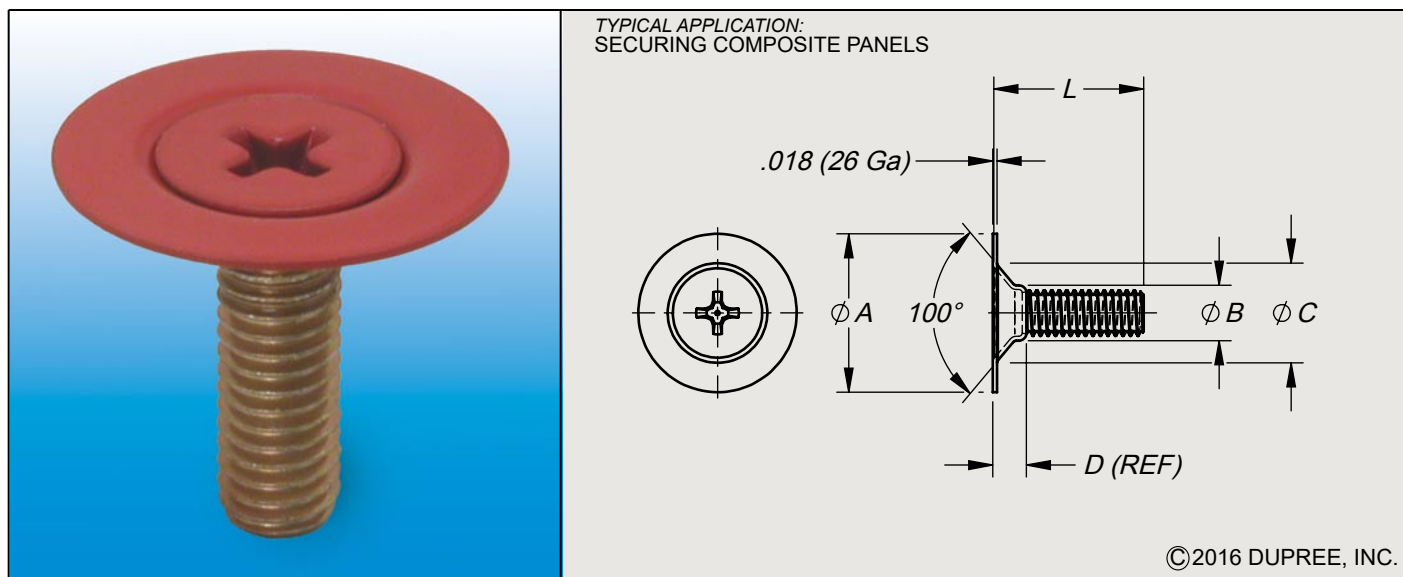
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UPHOLSTERY SCREW

COLORED 82° OVAL HEAD
w/CAPTIVE LARGE O.D. NYLON WASHER,
SHEET METAL THREAD, STEEL



TYPICAL APPLICATION:
SECURING COMPOSITE PANELS

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PART NO. EXAMPLE: **FCM 10F 10 D S03RD** = 100° FLAT HEAD SCREW w/CAPTIVE METAL WASHER, .190-32 X 5/8" LG, STEEL, PHILLIPS DRIVE, SEMI-GLOSS RED PER FED-STD-595 NO. 21105

HEAD TYPE	THREAD		L LENGTH								TOLERANCE	MATERIAL	COLOR CODE	DIM DATA ±.02			
	CODE	SIZE	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1			A	B	C	D
FCM	6C	.138-32 UNC-3A	4	5	6	7	8	10	12	14	16	D STEEL PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115	.50	.18	.30	.13
	8C	.164-32 UNC-3A	4	5	6	7	8	10	12	14	16			.56	.21	.36	.14
	10F	.190-32 UNF-3A	4	5	6	7	8	10	12	14	16			.66	.23	.41	.15

FEATURES:

1. The one piece screw and captive washer simplifies handling, installation and removal of attachment hardware.
2. Attachment hardware, color-matched with the mounting surface eliminates distraction from the information display by blending with the background.
3. Screw heads are formed by cold forging, followed by a heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
4. The thermosetting coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
5. The metal washer provides a low profile bearing surface to protect the finished surface of panels and equipment.

NOTES:

1. The screws listed in this series reflect aircraft quality with emphasis on the forming of the Phillips recess to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in

order to eliminate mismatching and subsequent damage to the drive recess and coating material.

3. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.

SPECIFICATIONS:

1. Screw material is heat treated alloy steel. Washer material is low carbon steel.
2. Screws are stocked cadmium plated per QQ-P-416, Type II, Class 2.
3. Threads are in conformance with MIL-S-7742 and H-28 Federal Handbook for threads.
4. Screw head coating and washer colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

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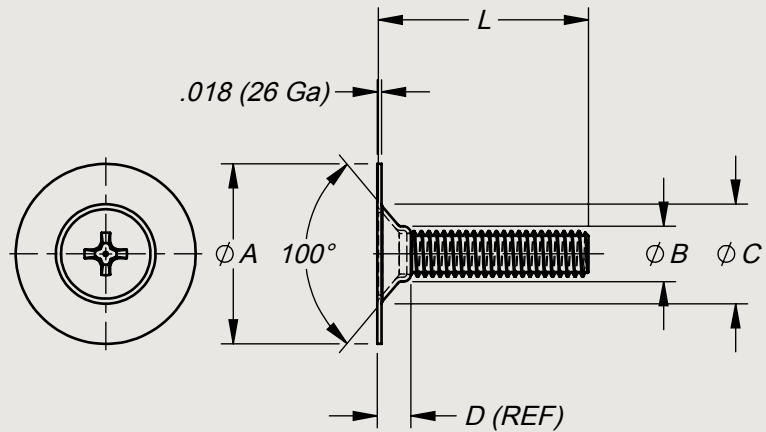
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SCREW / METAL WASHER
COLORED 100° FLAT HEAD w/CAPTIVE
METAL WASHER, MACHINE THREAD,
ALLOY STEEL



TYPICAL APPLICATION:
SECURING COMPOSITE PANELS



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PART NO. EXAMPLE: **FCM 10F 14 CP S13BN** =

100° FLAT HEAD SCREW w/CAPTIVE METAL WASHER,
.190-32 X 7/8" LG, COR. RES. STEEL, PHILLIPS DRIVE,
SEMI-GLOSS BROWN PER FED-STD-595 NO. 20122

HEAD TYPE	THREAD		L LENGTH								TOLERANCE +.00 -.03	MATERIAL	COLOR CODE	DIM DATA ±.02			
	CODE	SIZE	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1			A	B	C	D
FCM	10F	.190-32 UNF-2A	4	5	6	7	8	10	12	14	16	CP CRES PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115	.75	.23	.41	.15

FEATURES:

1. The one piece screw and captive washer simplifies handling, installation and removal of attachment hardware.
2. Attachment hardware, color-matched with the mounting surface eliminates distraction from the information display by blending with the background.
3. Screw heads are formed by cold forging which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
4. The thermosetting coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
5. The metal washer provides a low profile bearing surface to protect the finished surface of panels and equipment.

NOTES:

1. The screws listed in this series reflect aircraft quality with emphasis on the forming of the Phillips recess to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.

3. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.

SPECIFICATIONS:

1. Screw and washer material is 300 series corrosion resistant steel (Cres).
2. Screws and washers are passivated per SAE-AMS-2700.
3. Threads are in conformance with H-28 Federal Handbook for threads.
4. Screw head coating and washer colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

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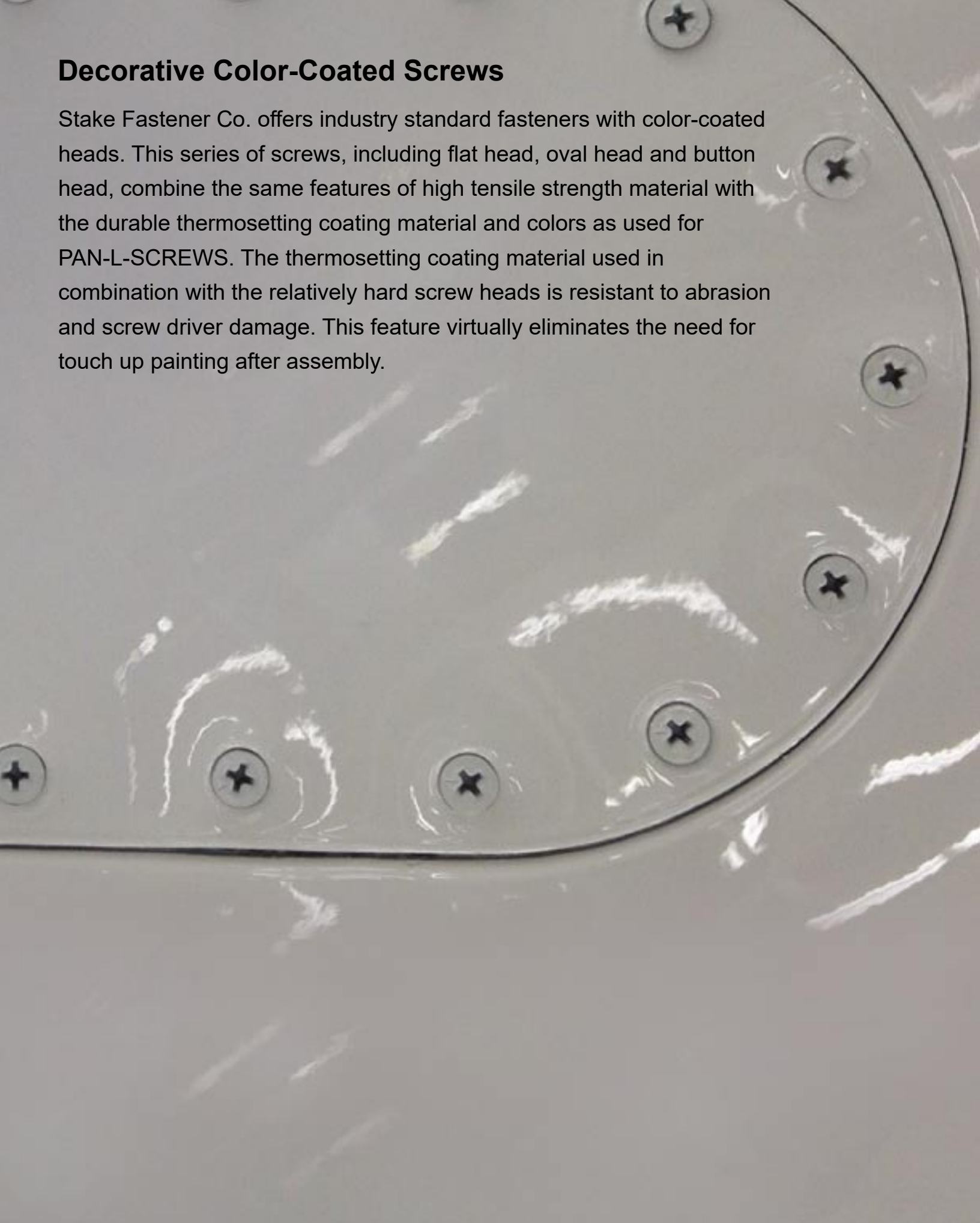


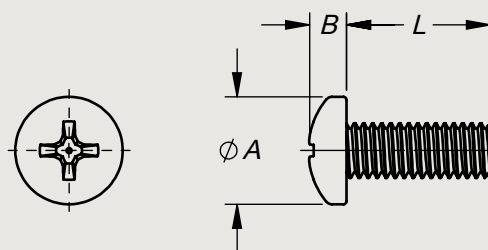
SCREW / CAPTIVE METAL WASHER

COLORED 100° FLAT HEAD w/CAPTIVE
METAL LG O.D. WASHER, MACHINE
THREAD, CRES, RoHS-COMPLIANT

Decorative Color-Coated Screws

Stake Fastener Co. offers industry standard fasteners with color-coated heads. This series of screws, including flat head, oval head and button head, combine the same features of high tensile strength material with the durable thermosetting coating material and colors as used for PAN-L-SCREWS. The thermosetting coating material used in combination with the relatively hard screw heads is resistant to abrasion and screw driver damage. This feature virtually eliminates the need for touch up painting after assembly.





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PART NO. EXAMPLE: **S 10F 10 D L11BN** = PAN HEAD SCREW, .190-32 X 5/8" LG, ALLOY STEEL, CADMIUM PLT, PHILLIPS DRIVE, LUSTERLESS BROWN PER FED-STD-595 NO. 30140

HEAD TYPE	THREAD		L LENGTH														+00 -03		+00 -06		MATERIAL	COLOR CODE	DIM DATA ±.020			
	CODE	SIZE	3 16	1 4	5 16	3 8	7 16	1 2	9 16	5 8	11 16	3 4	7 8	1	1 1 8	1 1 4	A		B							
			MAX	MIN	MAX	MIN																				
S	2C	.086-56 UNC-3A	3	4	5	6	7	8										.167	.155	.062	.053					
	4C	.112-40 UNJC-3A	3	4	5	6	7	8	9	10	11	12	14	16				.219	.205	.080	.070					
	6C	.138-32 UNJC-3A	3	4	5	6	7	8	9	10	11	12	14	16				.270	.256	.097	.087					
	8C	.164-32 UNJC-3A	3	4	5	6	7	8	9	10	11	12	14	16				.322	.306	.115	.105					
	10F	.190-32 UNJF-3A		4	5	6	7	8	9	10	11	12	14	16	18	20		.373	.357	.133	.122					
	12C	.216-24 UNC-3A					7	8	9	10	11	12	14	16	18	20		.425	.407	.151	.139					
	14F	.250-28 UNJF-3A						8	9	10	11	12	14	16	18	20		.492	.473	.175	.162					

FEATURES:

1. Screws are furnished with pre-colored heads to match panels and equipment. The coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
2. Screw heads are formed by cold forging, followed by a heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
3. Screw heads are cleaned and prepared for maximum adhesion of the coating material. The thermosetting coating material is both abrasion and solvent resistant.

NOTES:

1. The screws listed in this series reflect high quality with emphasis on the forming of the Phillips recess to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.

3. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order. Length code designates nominal length in 1/16-inch increments (for example, length code 8 = 1/2-inch long screw).

SPECIFICATIONS:

1. Screws meet the requirements of NAS600 series, including thread size .086-56 and .216-24 which are not listed as part of the NAS specification, except for plating requirements.
2. Screws are cadmium plated per QQ-P-416, Type II, Class 2.
3. Threads are in conformance with MIL-S-8879, except parts with thread codes "2C" & "12C" which are IAW MIL-S-7742.
4. Thermosetting coating material is applied to screw head only, threads are free of coating.
5. Screw head coating colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

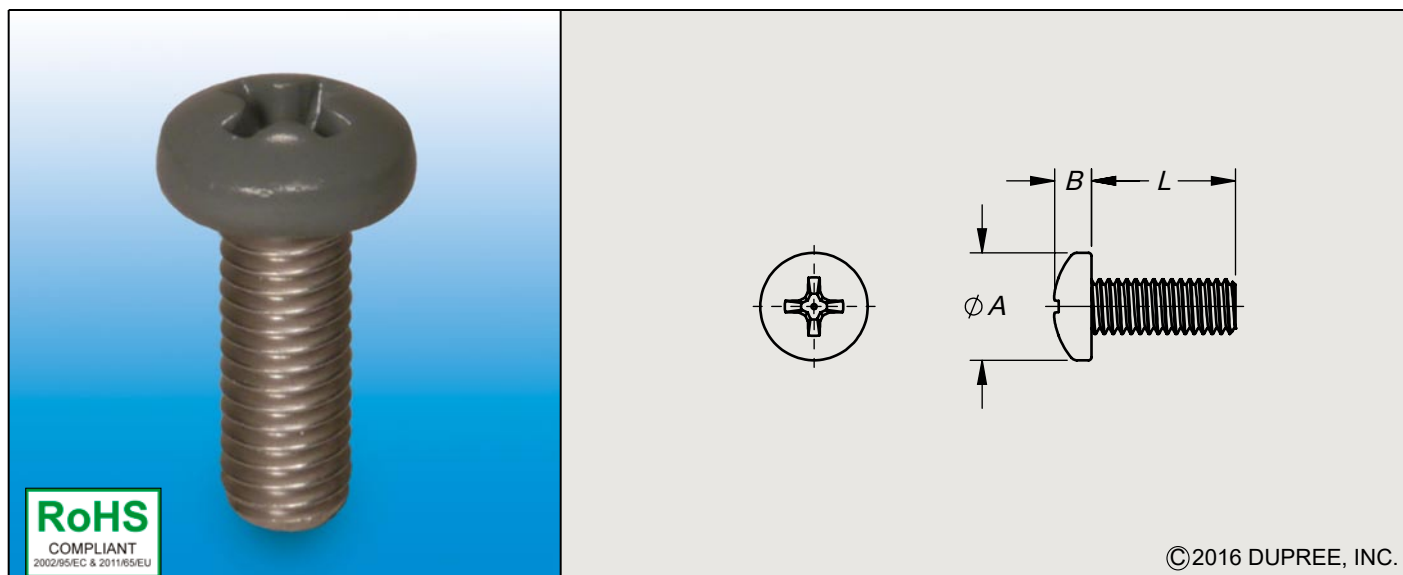
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COLORED SCREW

PAN HEAD, MACHINE THREAD,
ALLOY STEEL



PART NO. EXAMPLE: **S 10F 8 CP S17GY** = PAN HEAD SCREW, .190-32 X 1/2" LG, CORROSION RESISTANT STEEL, PHILLIPS DRIVE, SEMI-GLOSS GRAY PER FED-STD-595 NO. 26132

HEAD TYPE	THREAD		L LENGTH											+.00 -.03		+.00 -.06		MATERIAL	COLOR CODE	DIM DATA			
	CODE	SIZE	3 16	1 4	5 16	3 8	7 16	1 2	5 8	3 4	7 8	1	1 1 4	1 1 2	A		B						
			MAX	MIN	MAX	MIN																	
S	2C	.086-56 UNC-2A	3	4	5	6	7	8	10	12	14	16			CP CRES PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115		.167	.155	.062	.053		
	4C	.112-40 UNC-2A	3	4	5	6	7	8	10	12	14	16						.219	.205	.080	.070		
	6C	.138-32 UNC-2A	3	4	5	6	7	8	10	12	14	16	20					.270	.256	.097	.087		
	8C	.164-32 UNC-2A	3	4	5	6	7	8	10	12	14	16	20					.322	.306	.115	.105		
	10C	.190-32 UNC-2A		4	5	6	7	8	10	12	14	16	20	24				.373	.357	.133	.122		
	10F	.190-32 UNC-2A		4	5	6	7	8	10	12	14	16	20	24				.373	.357	.133	.122		
	14F	.250-28 UNC-2A							8	10	12	14	16	20				24	.492	.473	.175	.162	

FEATURES:

1. Screws are furnished with pre-colored heads to match panels and equipment. The coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
2. Screw heads are formed by cold forging, followed by a heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
3. Screw heads are cleaned and prepared for maximum adhesion of the coating material. The thermosetting coating material is both abrasion and solvent resistant.

NOTES:

1. The screws listed in this series reflect high quality with emphasis on the forming of the Phillips recess to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.

3. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order. Length code designates nominal length in 1/16-inch increments (for example, length code 8 = 1/2-inch long screw).

SPECIFICATIONS:

1. Screws meet all requirements of MS51957 (UNC-2A) and MS51958 (UNF-2A).
2. Screws are stocked passivated per SAE-AMS2700.
3. Threads are in conformance with H-28 Federal Handbook for threads.
4. Thermosetting coating material is applied to screw head only, threads are free of coating.
5. Screw head coating colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

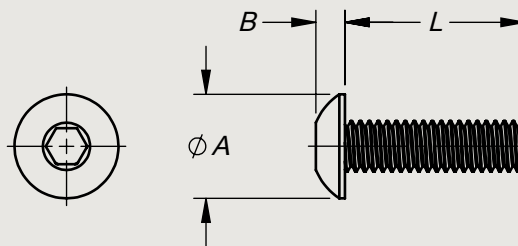
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COLORED SCREW

PAN HEAD, MACHINE THREAD,
CORROSION RESISTANT STEEL,
RoHS-COMPLIANT



ZINC PLATING ON THIS
PART SERIES IS BEING
PHASED OUT IN FAVOR OF
AN RoHS-COMPLIANT ZINC

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PART NO. EXAMPLE: **BHCS 10F 10 D S17BL** =

BUTTON HEAD SCREW, 10-32 X 5/8" LG, STEEL,
HEXAGON SOCKET, SEMI-GLOSS BLUE PER
FED-STD-595 NO. 25488

HEAD TYPE	THREAD		L LENGTH								MATERIAL	COLOR CODE	HEAD DATA	
	CODE	SIZE	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1			A MAX.	B MAX.
BHCS	2C	.086-56 UNRC-3A	3	4	6	8					D STEEL HEXAGON SOCKET	SEE STOCK COLOR LIST Doc No. SCL870115	.164	.046
	4C	.112-40 UNRC-3A	3	4	6	8							.213	.059
	6C	.138-32 UNRC-3A	3	4	6	8	10						.262	.073
	8C	.164-32 UNRC-3A	3	4	6	8	10	12					.312	.087
	10F	.190-32 UNRF-3A		4	6	8	10	12	14	16			.361	.101
	14C	.250-20 UNRC-3A			6	8	10	12	14	16			.437	.132
	38C	.375-16 UNRC-3A			6	8	10	12	14	16			.656	.199

FEATURES:

1. Screws are furnished with pre-colored heads to match panels and equipment. The coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
2. The thermosetting coating material is both abrasion and solvent resistant. Screw heads are cleaned and prepared for maximum adhesion of the coating material.
3. Screw heads are formed by cold forging, followed by a heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.

NOTES:

1. The screws listed in this series reflect high quality with emphasis on the forming of the hexagon socket to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.

3. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.

SPECIFICATIONS:

1. Screws are in accordance with ANSI/ASME Standard No. B18.3, Socket Button Head Cap Screws.
2. Screws are alloy steel and are stocked zinc plated in accordance with ASTM B633, Class SC1, Type II.
3. Threads are in conformance with H-28 Federal Handbook for threads.
4. Coating colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

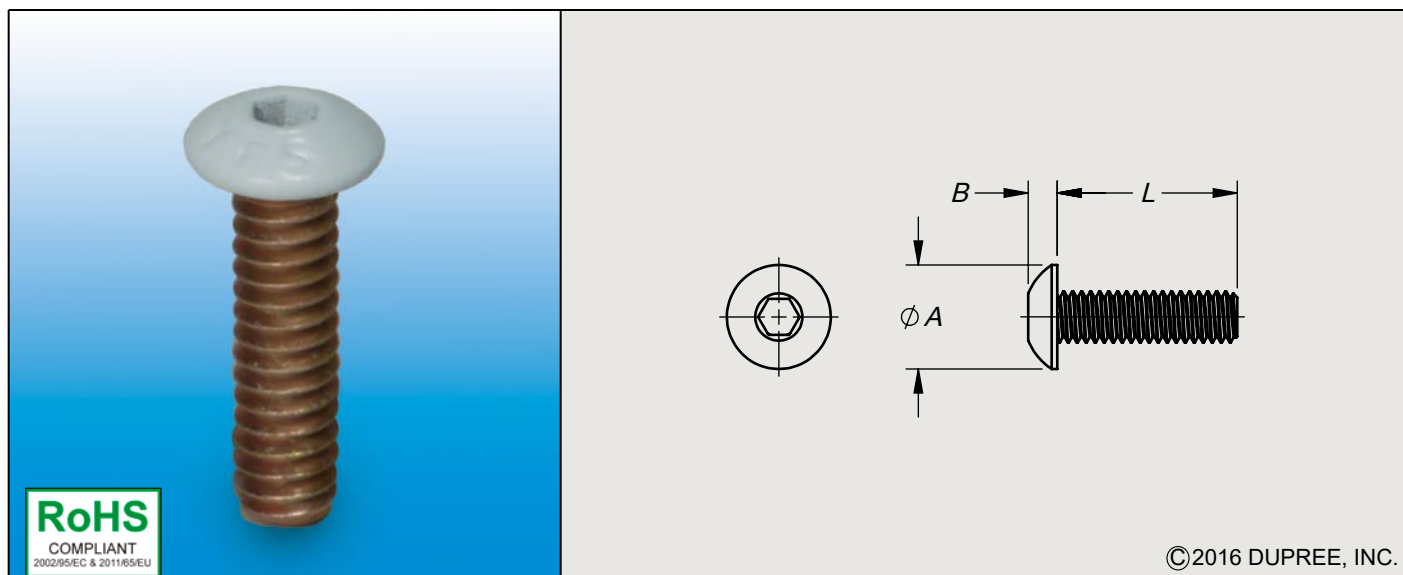
STAKE FASTENER CO.

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COLORED SCREW

BUTTON HEAD, MACHINE THREAD,
ALLOY STEEL



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PART NO. EXAMPLE: **BHCS 6C 8 ZR S03BL** = BUTTON HEAD SCREW, 10-32 X 1/2" LG, STEEL, RoHS ZINC, HEXAGON SOCKET, SEMI-GLOSS BLUE PER FED-STD-595 NO. 25526

HEAD TYPE	THREAD		L LENGTH								MATERIAL	COLOR CODE	HEAD DATA	
	CODE	SIZE	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1			A MAX.	B MAX.
BHCS	2C	.086-56 UNRC-3A	3	4	6	8					ZR STEEL HEXAGON SOCKET RoHS COMPLI- ANT ZINC PLATE	SEE STOCK COLOR LIST Doc No. SCL870115	.164	.046
	4C	.112-40 UNRC-3A	3	4	6	8							.213	.059
	6C	.138-32 UNRC-3A	3	4	6	8	10						.262	.073
	8C	.164-32 UNRC-3A	3	4	6	8	10	12					.312	.087
	10F	.190-32 UNRF-3A		4	6	8	10	12	14	16			.361	.101
	14C	.250-20 UNRC-3A			6	8	10	12	14	16			.437	.132
	38C	.375-16 UNRC-3A			6	8	10	12	14	16			.656	.199

FEATURES:

1. Screws are furnished with pre-colored heads to match panels and equipment. The coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
2. The thermosetting coating material is both abrasion and solvent resistant. Screw heads are cleaned and prepared for maximum adhesion of the coating material.
3. Screw heads are formed by cold forging, followed by a heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.

NOTES:

1. The screws listed in this series reflect high quality with emphasis on the forming of the hexagon socket to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.

3. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.

SPECIFICATIONS:

1. Screws are in accordance with ANSI/ASME Standard No. B18.3, Socket Button Head Cap Screws.
2. Screws are zinc plated per ASTM B633, Class SC1 (min), Type VI-yellow, hexavalent chromium free, RoHS-Compliant.
3. Threads are in conformance with H-28 Federal Handbook for threads.
4. Coating colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

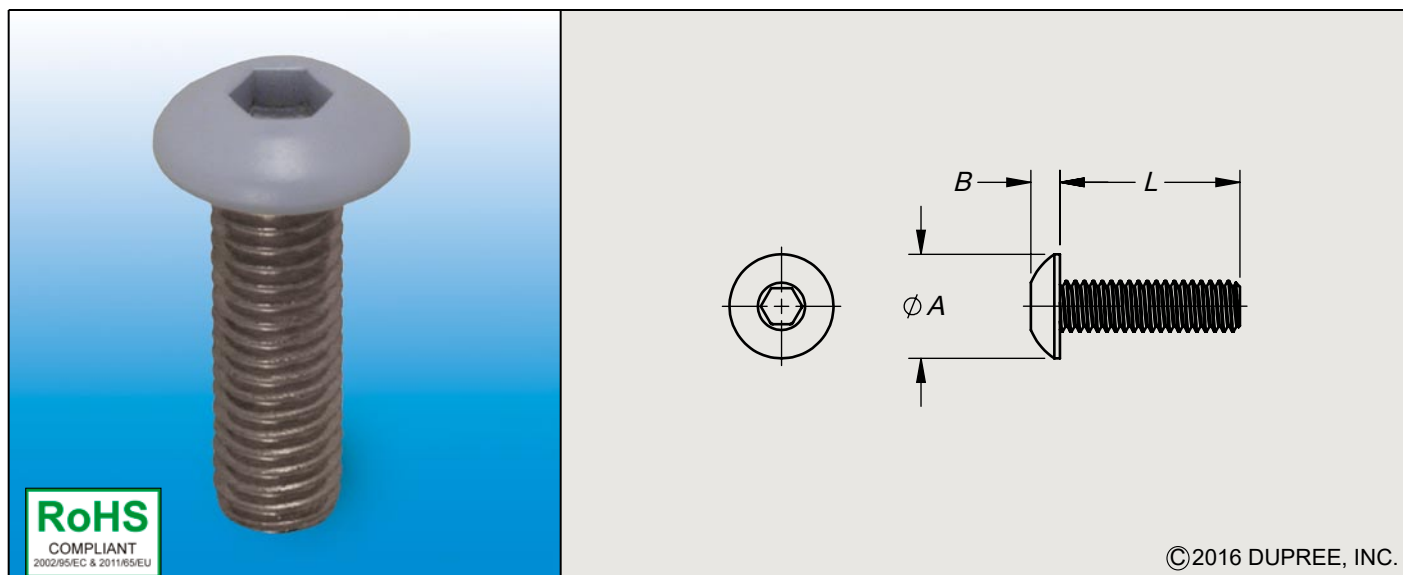
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COLORED SCREW

BUTTON HEAD, MACHINE THREAD,
ALLOY STEEL, RoHS-COMPLIANT ZINC



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PART NO. EXAMPLE: **BHCS 10F 10 C S17BL** = BUTTON HEAD SCREW, 10-32 X 5/8" LG, CORROSION RESISTANT STEEL, HEXAGON SOCKET, SEMI-GLOSS BLUE PER FED-STD-595 NO. 25488

HEAD TYPE	THREAD		L LENGTH								MATERIAL	COLOR CODE	HEAD DATA	
	CODE	SIZE	$\frac{3}{16}$	$\frac{1}{4}$	$\frac{3}{8}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1			A MAX.	B MAX.
BHCS	2C	.086-56 UNRC-3A	3	4	6	8					C CRES HEXAGON SOCKET	SEE STOCK COLOR LIST Doc No. SCL870115	.164	.046
	4C	.112-40 UNRC-3A	3	4	6	8							.213	.059
	6C	.138-32 UNRC-3A	3	4	6	8	10						.262	.073
	8C	.164-32 UNRC-3A	3	4	6	8	10	12					.312	.087
	10F	.190-32 UNRF-3A		4	6	8	10	12	14	16			.361	.101
	14C	.250-20 UNRC-3A			6	8	10	12	14	16			.437	.132
	38C	.375-16 UNRC-3A			6	8	10	12	14	16			.656	.199

FEATURES:

1. Screws are furnished with pre-colored heads to match panels and equipment. The coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
2. The thermosetting coating material is both abrasion and solvent resistant. Screw heads are cleaned and prepared for maximum adhesion of the coating material.
3. Screw heads are formed by cold forging, followed by a heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.

NOTES:

1. The screws listed in this series reflect high quality with emphasis on the forming of the hexagon socket to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.

3. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.

SPECIFICATIONS:

1. Screws are in accordance with ANSI/ASME Standard No. B18.3, Socket Button Head Cap Screws.
2. Screws are 300 series corrosion resistant steel and are stocked passivated per SAE-AMS-2700.
3. Threads are in conformance with H-28 Federal Handbook for threads.
4. Coating colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

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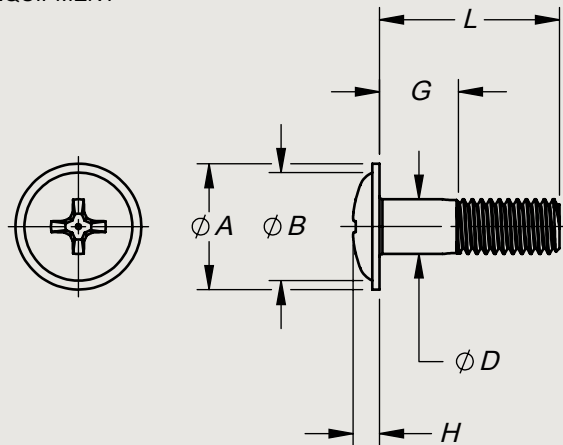


COLORED SCREW

COLORED BUTTON HEAD,
MACHINE THREAD, CRES,
RoHS-COMPLIANT



TYPICAL APPLICATION:
SECURING PANELS AND RACK
MOUNTED EQUIPMENT



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PART NO. EXAMPLE: **WH 10 R10 D S15BG** = WASHER HEAD SCREW, .190-32 UNF-3A X 5/8" LG, 7/32" GRIP, ALLOY STEEL, CRUCIFORM RECESS, SEMI-GLOSS BEIGE PER FED-STD-595 NO. 27722

HEAD TYPE	THREAD		RECESS / LENGTH CODE	MATERIAL	COLOR CODE	DIM DATA SEE NASM525			
	CODE	SIZE				A	B	D	H
WH	8	.164-36 UNF-3A	DESIGNATES RECESS TYPE & PART LENGTH	D ALLOY STEEL PER NASM525	SEE STOCK COLOR LIST Doc No. SCL870115	.375	.312	.164	.087
	832	.164-32 UNC-3A	"R" DESIGNATES CRUCIFORM RECESSED HEAD SCREWS			.375	.312	.164	.087
	10	.190-32 UNF-3A	SEE TABLE 1 FOR AVAILABLE LENGTHS			.437	.375	.190	.094
	416	.250-28 UNF-3A				.500	.437	.250	.101

TABLE 1: AVAILABLE DIAMETERS & LENGTHS

"L" LENGTH ± 1/32	"G" GRIP	DASH NUMBERS FOR CRUCIFORM RECESSED HEAD SCREWS			
		.164-36UNF-3A (#8-36)	.164-32UNC-3A (#8-32)	.190-32UNF-3A (#10-32)	.250-28UNF-3A (1/4-28)
3/8	1/32	8R6	832R6	10R6	416R6
7/16	1/16	8R7	832R7	10R7	416R7
1/2	1/8	8R8	832R8	10R8	416R8
9/16	5/32	8R9	832R9	10R9	416R9
5/8	7/32	8R10	832R10	10R10	416R10
11/16	9/32	8R11	832R11	10R11	416R11
3/4	11/32	8R12	832R12	10R12	416R12
7/8	15/32	8R14	832R14	10R14	416R14
1	19/32	8R16	832R16	10R16	416R16
1-1/8	23/32	8R18	832R18	10R18	416R18
1-1/4	27/32	8R20	832R20	10R20	416R20
1-3/8	31/32	8R22	832R22	10R22	416R22
1-1/2	1-3/32	8R24	832R24	10R24	416R24
1-5/8	1-7/32	8R26	832R26	10R26	416R26
1-3/4	1-11/32	8528	832R28	10R28	416R28
1-7/8	1-15/32	8R20	832R30	10R30	416R30
2	1-19/32	8R32	832R32	10R32	416R32

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COLORED SCREW

WASHER HEAD, MACHINE THREAD,
ALLOY STEEL, PLATED
(SHEET 1 OF 2)

FEATURES:

1. Screws are furnished with pre-colored heads to match panels and equipment. The coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
2. Screw heads are formed by cold forging, followed by a heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
3. Screw heads are cleaned and prepared for maximum adhesion of the coating material. The thermosetting coating material is both abrasion and solvent resistant.

NOTES:

1. The screws listed in this series reflect high quality with emphasis on the forming of the cruciform recess to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.
3. The thread diameters and lengths listed in the table are NASM525 standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production.

SPECIFICATIONS:

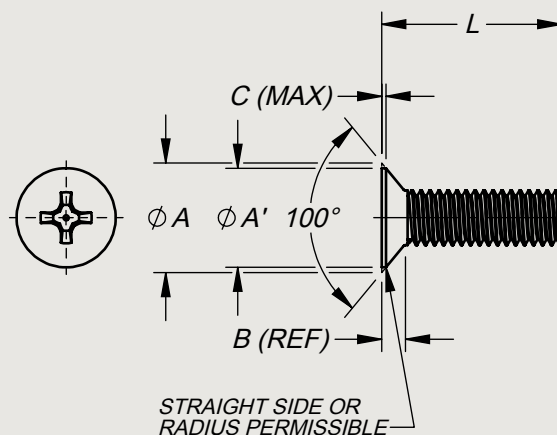
1. Screws meet all requirements of NASM525.
2. Screw material is alloy steel per NASM525.
3. Screws are cadmium plated per AMS-QQ-P-416, Type II, Class 3 or zinc plated per ASTM B633, Fe/Zn 13, Type II, as per NASM525.
4. Threads are in conformance with FED-STD-H28/2, Federal Handbook for threads.
5. Thermosetting coating material is applied to screw head only. Threads are free of coating.
6. Screw head coating colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.
7. Previous to NASM525, Revision 2 (released 30-JUN-2010), the nominal length ("L" dimension) did not include the end chamfer. Part inventory manufactured to previous revisions may be procured and used until stock is depleted. For further details, refer to Stake Fastener Co. dwg no. 9-83-0401-105.

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**COLORED SCREW**

WASHER HEAD, MACHINE THREAD,
ALLOY STEEL, PLATED
(SHEET 2 OF 2)



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PART NO. EXAMPLE: **FH 10F 10 D S01YE** = 100° FLAT HEAD SCREW, .190-32 X 5/8" LG, STEEL, PHILLIPS DRIVE, SEMI-GLOSS YELLOW PER FED-STD-595 NO. 26555

HEAD TYPE	THREAD		L LENGTH									MATERIAL	COLOR CODE	DIMENSIONAL DATA			
	CODE	SIZE	1 4	5 16	3 8	7 16	1 2	5 8	3 4	7 8	1			A <small>SHARP</small>	A' <small>ABS. MIN.</small>	B	C
FH	4C	.112-40 UNJC-3A	4	5	6	7	8	10	12	14	16	D STEEL PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115	.225	.183	.045	.012
	6C	.138-32 UNJC-3A	4	5	6	7	8	10	12	14	16			.279	.233	.057	.014
	8C	.164-32 UNJC-3A	4	5	6	7	8	10	12	14	16			.332	.282	.068	.015
	10F	.190-32 UNJF-3A	4	5	6	7	8	10	12	14	16			.385	.332	.080	.016

FEATURES:

1. Screws are furnished with pre-colored heads to match panels and equipment. The coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
2. Screw heads are formed by cold forging, followed by a heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
3. Screw heads are cleaned and prepared for maximum adhesion of the coating material. The thermosetting coating material is both abrasion and solvent resistant. Slight overspray on underside of head is permissible.

NOTES:

1. The screws listed in this series reflect aircraft quality with emphasis on the forming of the Phillips recess to meet design specification.

2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.
3. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.

SPECIFICATIONS:

1. Screws meet all requirements of NAS514. Screws are stocked cadmium plated per QQ-P-416, Type II. Class 2.
2. Threads are in conformance with MIL-S-8879 and H28 Federal Handbook for threads.
3. Coating colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

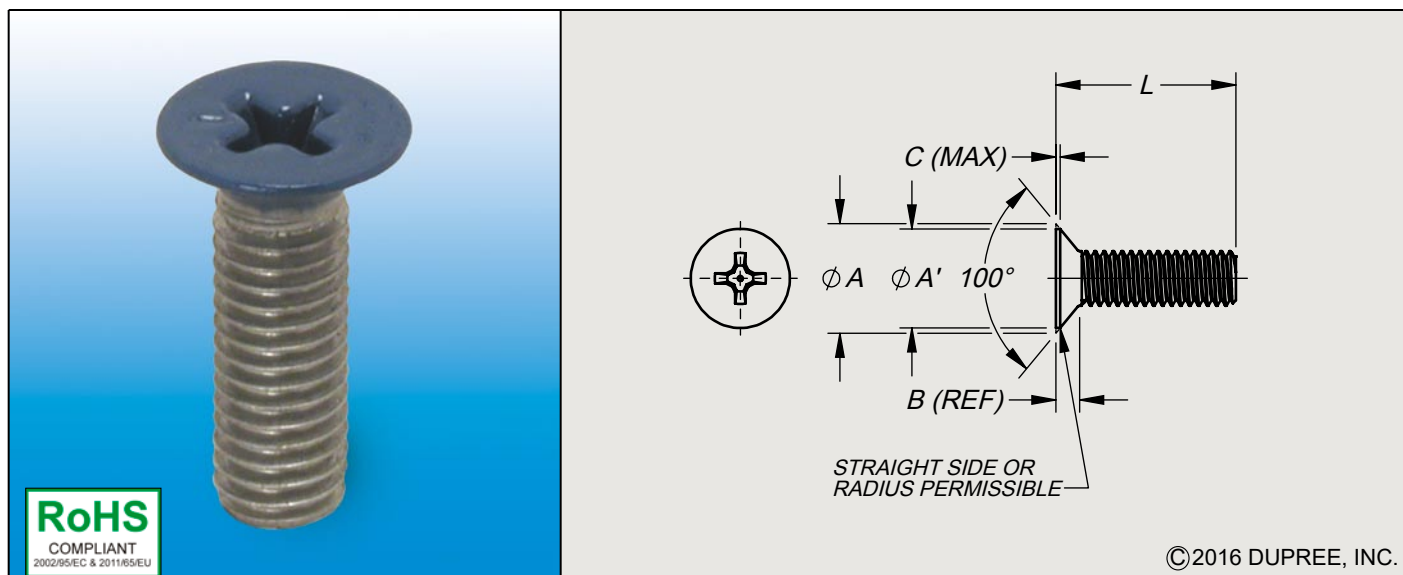
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COLORED SCREW

100° FLAT HEAD,
MACHINE THREAD, ALLOY STEEL,
PLATED



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PART NO. EXAMPLE: **FH 10F 10 CP G27BL** =

100° FLAT HEAD SCREW .190-32 X 5/8" LG,
CORROSION RESISTANT STEEL, PHILLIPS DRIVE,
GLOSS BLUE PER FED-STD-595 NO. 15080

HEAD TYPE	THREAD		L LENGTH									MATERIAL	COLOR CODE	DIMENSIONAL DATA			
	CODE	SIZE	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1			A <small>SHARP</small>	A' <small>ABS. MIN.</small>	B	C
FH	4C	.112-40 UNC-2A	4	5	6	7	8	10	12	14	16	CP CRES PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115	.225	.191	.045	.012
	6C	.138-32 UNC-2A	4	5	6	7	8	10	12	14	16			.279	.238	.057	.014
	8C	.164-32 UNC-2A	4	5	6	7	8	10	12	14	16			.332	.285	.068	.015
	10F	.190-32 UNF-2A	4	5	6	7	8	10	12	14	16			.385	.333	.080	.016

FEATURES:

1. Screws are furnished with pre-colored heads to match panels and equipment. The coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
2. Screw heads are formed by cold forging which increases the basic tensile strength of the material. The resulting high tensile strength thus eliminates burring and yield of the substrate under the coating material.
3. Screw heads are cleaned and prepared for maximum adhesion of the coating material. The thermosetting coating material is both abrasion and solvent resistant. Slight overspray on underside of head is permissible.

NOTES:

1. The screws listed in this series reflect aircraft quality with emphasis on the forming of the Phillips recess to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in

order to eliminate mismating and subsequent damage to the drive recess and coating material.

3. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.

SPECIFICATIONS:

1. Screws meet all requirements of MS24693. Material is 300 series corrosion resistant steel. Screws are passivated per SAE-AMS-2700.
2. Threads are in conformance with H28 Federal Handbook for threads.
3. Coating colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

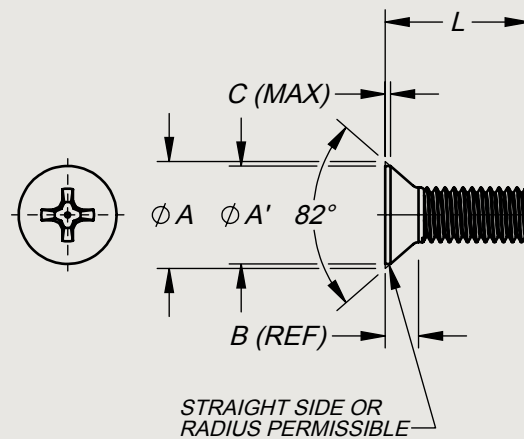
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COLORED SCREW

100° FLAT HEAD,
MACHINE THREAD,
CRES, RoHS-COMPLIANT



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PART NO. EXAMPLE: **FHC 10F 8 CP S03RD** =

82° FLAT HEAD SCREW .190-32 X 1/2" LG,
CORROSION RESISTANT STEEL, PHILLIPS DRIVE,
SEMI-GLOSS RED PER FED-STD-595 NO. 21105

HEAD TYPE	THREAD		L LENGTH									MATERIAL	COLOR CODE	DIMENSIONAL DATA			
	CODE	SIZE	1 4	5 16	3 8	7 16	1 2	5 8	3 4	7 8	1			A SHARP	A' ABS. MIN.	B	C
FHC	4C	.112-40 UNC-2A	4	5	6	7	8	10	12	14	16	CP CRES PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115	.225	.195	.067	.017
	6C	.138-32 UNC-2A	4	5	6	7	8	10	12	14	16			.279	.244	.083	.021
	8C	.164-32 UNC-2A	4	5	6	7	8	10	12	14	16			.332	.292	.100	.024
	10F	.190-32 UNF-2A	4	5	6	7	8	10	12	14	16			.385	.340	.116	.028

FEATURES:

1. Screws are furnished with pre-colored heads to match panels and equipment. The coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
2. Screw heads are formed by cold forging which increases the basic tensile strength of the material. The resulting high tensile strength thus eliminates burring and yield of the substrate under the coating material.
3. Screw heads are cleaned and prepared for maximum adhesion of the coating material. The thermosetting coating material is both abrasion and solvent resistant. Slight overspray on underside of head is permissible.

NOTES:

1. The screws listed in this series reflect aircraft quality with emphasis on the forming of the Phillips recess to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in

order to eliminate mismatching and subsequent damage to the drive recess and coating material.

3. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.

SPECIFICATIONS:

1. Screws meet all requirements of MS51959 (UNC-2A) and MS51960 (UNF-2A). Screws are passivated per SAE-AMS-2700.
2. Threads are in conformance with H28 Federal Handbook for threads.
3. Coating colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

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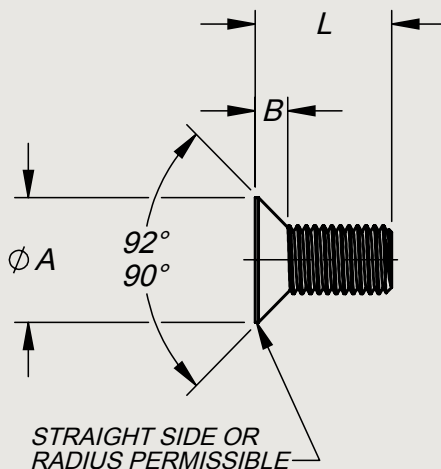
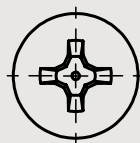


COLORED SCREW

82° FLAT HEAD,
MACHINE THREAD,
CRES, RoHS-COMPLIANT



RoHS
COMPLIANT
2002/95/EC & 2011/65/EU



DIMENSIONS ARE IN mm

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PART NO. EXAMPLE: **FHM 4M 10 CP G24GY** =

FLAT HEAD METRIC SCREW, M4 X 0.7 THREADS X 10mm LG, CORROSION RESISTANT STEEL, CROSS RECESS, HEAD COATED GLOSS GRAY PER FED-STD-595 NO. 16376

HEAD TYPE	THREAD			L LENGTH								MATERIAL	COLOR CODE	DIM DATA	
	CODE	NOMINAL DIAMETER	PITCH	TOL ± 0.375		TOL ± 0.45		TOL ± 0.55		TOL ± 0.65				A REF	B REF
				5	6	8	10	12	16	20	25				
FHM	2M	2.0	0.4	5	6	8	10	12	16			CP CRES CROSS RECESS	SEE STOCK COLOR LIST Doc No. SCL870115	3.80	1.2
	25M	2.5	0.45	5	6	8	10	12	16	20	25			4.70	1.5
	3M	3.0	0.5	5	6	8	10	12	16	20	25			5.60	1.65
	4M	4.0	0.7		6	8	10	12	16	20	25			7.50	2.2
	5M	5.0	0.8		6	8	10	12	16	20	25			9.20	2.5
	6M	6.0	1.0		6	8	10	12	16	20	25			11.0	3.0

FEATURES:

1. Screws are furnished with pre-colored heads to match panels and equipment. The coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
2. Screw heads are formed by cold forging, followed by a heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
3. Screw heads are cleaned and prepared for maximum adhesion of the coating material. The thermosetting coating material is both abrasion and solvent resistant. Slight overspray on underside of head is permissible.

NOTES:

1. The screws listed in this series reflect high quality with emphasis on the forming of the Phillips recess to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.

3. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production.

SPECIFICATIONS:

1. Screws meet the requirements of DIN 965, Metric Machine Screws, Cross Recess. Dimensions shown in above table are for reference only; refer to current revision of DIN 965 for dimensions and tolerances. Dimensions are in mm.
2. Screw material is A2 (300 series) corrosion resistant steel (CRES), passivated.
3. Screw head coating colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

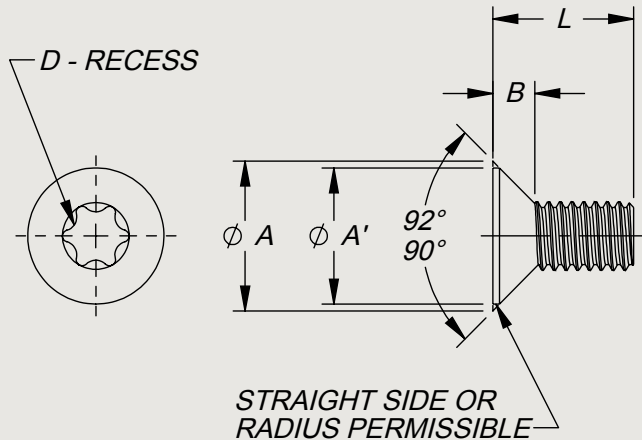
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COLORED SCREW

90° METRIC FLAT HEAD,
METRIC THREAD, CRES,
RoHS-COMPLIANT



DIMENSIONS ARE IN mm

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PART NO. EXAMPLE: **FHM 3M 6 CT S03RD** =

FLAT HEAD METRIC SCREW, M3 X 0.5 THREADS X 6mm LONG, CORROSION RESISTANT STEEL, TORX® RECESS, HEAD COATED SEMI-GLOSS RED PER FED-STD-595 NO. 21105

HEAD TYPE	THREAD			L LENGTH CODE						MATERIAL & RECESS		COLOR CODE	DIMENSIONAL DATA			
	CODE	NOMINAL DIAMETER	PITCH	TOL ± 0.3		TOL ± 0.4		TOL ± 0.5					A SHARP	A' ABS. MIN	B MAX	D DRIVE SIZE
				8	10	13	16	20	25	CODE	DESCRIPTION					
FHM	25M	2.5	0.45	8	10	13	16			CT	CRES TORX® RECESS	SEE STOCK COLOR LIST Doc No. SCL870115	5.5	4.4	1.5	T8
	3M	3.0	0.5	8	10	13	16						6.3	5.2	1.7	T10
	35M	3.5	0.6	8	10	13	16	20					8.2	6.9	2.3	T15
	4M	4.0	0.7	8	10	13	16	20	25				9.4	8.0	2.7	T20
	5M	5.0	0.8		10	13	16	20	25				10.4	8.9	2.7	T25
	6M	6.0	1.0			13	16	20	25				12.6	10.9	3.3	T30

FEATURES:

1. Screws are furnished with pre-colored heads to match panels and equipment. The coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
2. Screw heads are formed by cold forging, followed by a heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
3. Screw heads are cleaned and prepared for maximum adhesion of the coating material. The thermosetting coating material is both abrasion and solvent resistant. Slight overspray on underside of head is permissible.

NOTES:

1. TORX® is a registered trademark of Camcar Textron.
2. The screws listed in this series reflect high quality with emphasis on the forming of the TORX® recess to meet design specification.
3. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.

4. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production.

SPECIFICATIONS:

1. Screws meet the requirements of ASME B18.6.7M, Metric Machine Screws, except with a TORX® Recess. Dimensions shown in above table are for reference only; refer to current revision of ASME B18.6.7M for dimensions and tolerances. Dimensions are in mm.
2. Screw material is 300 series corrosion resistant steel (CRES), passivated.
3. Screw head coating colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

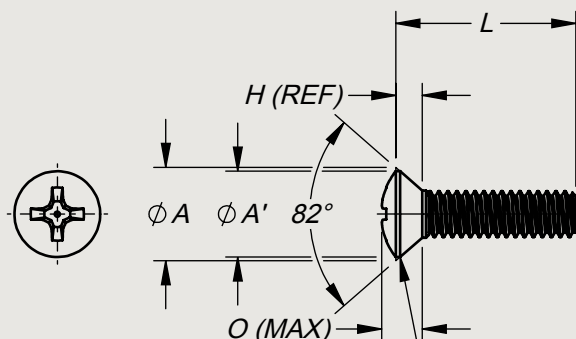
STAKE FASTENER CO.

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COLORED SCREW

90° METRIC FLAT HEAD,
METRIC THREAD, CRES,
TORX® RECESS



ZINC PLATING ON THIS PART SERIES IS BEING PHASED OUT IN FAVOR OF AN RoHS-COMPLIANT ZINC

STRAIGHT SIDE OR RADIUS PERMISSIBLE

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PART NO. EXAMPLE: **OHC 8C 10 D S17BL** = 82° OVAL HEAD SCREW .164-32 X 5/8" LG, ALLOY STEEL, PHILLIPS DRIVE, SEMI-GLOSS BLUE PER FED-STD-595 NO. 25488

HEAD TYPE	THREAD		<i>L</i> LENGTH +.00 -.03									MATERIAL	COLOR CODE	DIMENSIONAL DATA			
	CODE	SIZE	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1			<i>A</i> <small>SHARP</small>	<i>A'</i> <small>ABS. MIN.</small>	<i>H</i> <small>REF.</small>	<i>O</i> <small>MAX.</small>
OHC	4C	.112-40 UNC-2A	4	5	6	7	8	10	12	14	16	D STEEL PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115	.225	.195	.067	.104
	6C	.138-32 UNC-2A	4	5	6	7	8	10	12	14	16			.279	.244	.083	.128
	8C	.164-32 UNC-2A		5	6	7	8	10	12	14	16			.332	.292	.100	.152
	10F	.190-32 UNF-2A			6	7	8	10	12	14	16			.385	.340	.116	.176

FEATURES:

1. Screws are furnished with pre-colored heads to match panels and equipment. The coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
2. Screw heads are formed by cold forging which increases the basic tensile strength of the material. The resulting high tensile strength thus eliminates burring and yield of the substrate under the coating material.
3. Screw heads are cleaned and prepared for maximum adhesion of the coating material. The thermosetting coating material is both abrasion and solvent resistant. Slight overspray on underside of head is permissible.

NOTES:

1. The screws listed in this series reflect high quality with emphasis on the forming of the Phillips recess to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.
3. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any

one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.

SPECIFICATIONS:

1. Screws are in accordance with ASME Standard No. B18.6.3, Recessed Head Machine Screws.
2. Screws are alloy steel and are stocked zinc plated in accordance with ASTM B633, Class SC1, Type II.
3. Threads are in conformance with H28 Federal Handbook for threads.
4. Coating colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

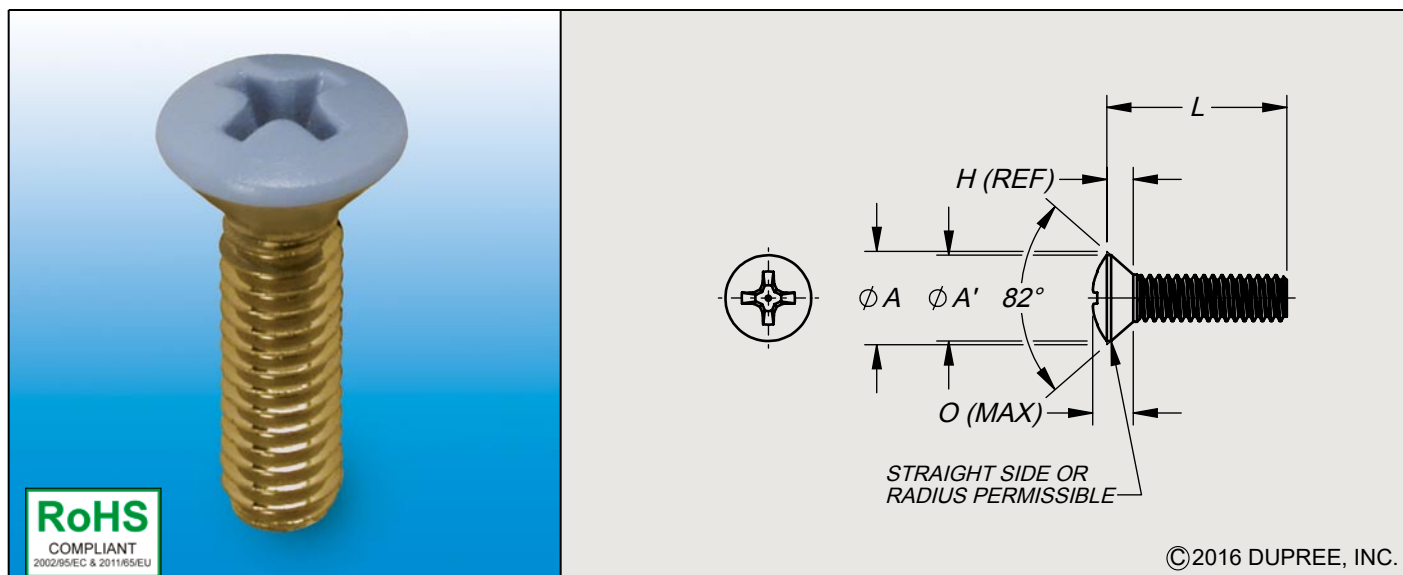
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COLORED SCREW

COLORED 82° OVAL HEAD,
MACHINE THREAD, ALLOY STEEL,
PLATED



PART NO. EXAMPLE: **OHC 8C 10 ZR S17BL** = 82° OVAL HEAD SCREW .164-32 X 5/8" LG, ALLOY STEEL, PHILLIPS DRIVE, SEMI-GLOSS BLUE PER FED-STD-595 NO. 25488

HEAD TYPE	THREAD		<i>L</i> LENGTH +.00 -.03									MATERIAL	COLOR CODE	DIMENSIONAL DATA			
	CODE	SIZE	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1			<i>A</i> SHARP	<i>A'</i> ABS. MIN.	<i>H</i> REF.	<i>O</i> MAX.
OHC	4C	.112-40 UNC-2A	4	5	6	7	8	10	12	14	16	ZR STEEL PHILLIPS DRIVE RoHS- COMPLI- ANT ZINC PLATE	SEE STOCK COLOR LIST Doc No. SCL870115	.225	.195	.067	.104
	6C	.138-32 UNC-2A	4	5	6	7	8	10	12	14	16			.279	.244	.083	.128
	8C	.164-32 UNC-2A		5	6	7	8	10	12	14	16			.332	.292	.100	.152
	10F	.190-32 UNF-2A			6	7	8	10	12	14	16			.385	.340	.116	.176

FEATURES:

1. Screws are furnished with pre-colored heads to match panels and equipment. The coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
2. Screw heads are formed by cold forging which increases the basic tensile strength of the material. The resulting high tensile strength thus eliminates burring and yield of the substrate under the coating material.
3. Screw heads are cleaned and prepared for maximum adhesion of the coating material. The thermosetting coating material is both abrasion and solvent resistant. Slight overspray on underside of head is permissible.

NOTES:

1. The screws listed in this series reflect high quality with emphasis on the forming of the Phillips recess to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.
3. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any

one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.

SPECIFICATIONS:

1. Screws are in accordance with ASME Standard No. B18.6.3, Recessed Head Machine Screws.
2. Screws are zinc plated per ASTM B633, Class SC-1 (min), Type VI-yellow, hexavalent chromium free, RoHS-Compliant.
3. Threads are in conformance with H28 Federal Handbook for threads.
4. Coating colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

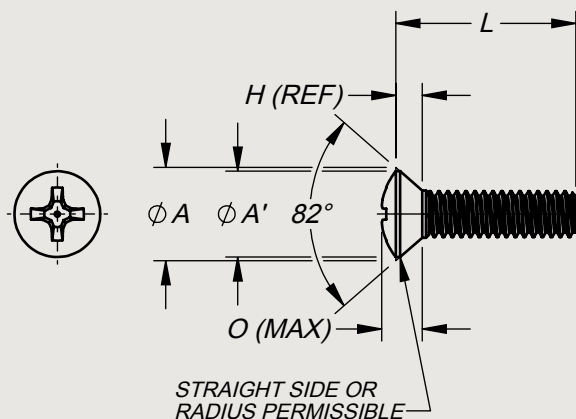
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COLORED SCREW

82° OVAL HEAD,
MACHINE THREAD,
ALLOY STEEL, RoHS-COMPLIANT



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PART NO. EXAMPLE: **OHC 8C 10 CP S17BL** =

82° OVAL HEAD SCREW .164-32 X 5/8" LG,
CORROSION RESISTANT STEEL, PHILLIPS DRIVE,
SEMI-GLOSS BLUE PER FED-STD-595 NO. 25488

HEAD TYPE	THREAD		<i>L</i> LENGTH +.00 -.03									MATERIAL	COLOR CODE	DIMENSIONAL DATA			
	CODE	SIZE	$\frac{1}{4}$	$\frac{5}{16}$	$\frac{3}{8}$	$\frac{7}{16}$	$\frac{1}{2}$	$\frac{5}{8}$	$\frac{3}{4}$	$\frac{7}{8}$	1			<i>A</i> SHARP	<i>A'</i> ABS. MIN.	<i>H</i> REF.	<i>O</i> MAX.
OHC	4C	.112-40 UNC-2A	4	5	6	7	8	10	12	14	16	CP CRES PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115	.225	.195	.067	.104
	6C	.138-32 UNC-2A	4	5	6	7	8	10	12	14	16			.279	.244	.083	.128
	8C	.164-32 UNC-2A		5	6	7	8	10	12	14	16			.332	.292	.100	.152
	10F	.190-32 UNF-2A			6	7	8	10	12	14	16			.385	.340	.116	.176

FEATURES:

1. Screws are furnished with pre-colored heads to match panels and equipment. The coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
2. Screw heads are formed by cold forging which increases the basic tensile strength of the material. The resulting high tensile strength thus eliminates burring and yield of the substrate under the coating material.
3. Screw heads are cleaned and prepared for maximum adhesion of the coating material. The thermosetting coating material is both abrasion and solvent resistant. Slight overspray on underside of head is permissible.

NOTES:

1. The screws listed in this series reflect high quality with emphasis on the forming of the Phillips recess to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.
3. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any

one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.

SPECIFICATIONS:

1. Screws are in accordance with ASME Standard No. B18.6.3, Recessed Head Machine Screws.
2. Screws are 300 series corrosion resistant steel and are stocked passivated per SAE-AMS-2700.
3. Threads are in conformance with H28 Federal Handbook for threads.
4. Coating colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

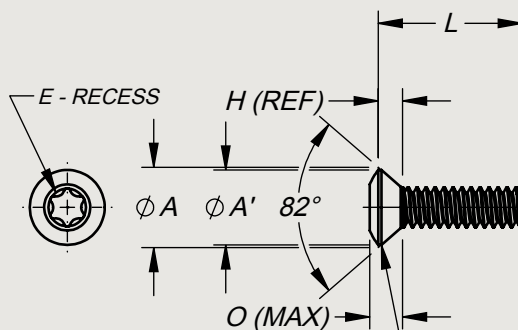
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COLORED SCREW

82° OVAL HEAD,
MACHINE THREAD,
CRES, RoHS-COMPLIANT



ZINC PLATING ON THIS PART SERIES IS BEING PHASED OUT IN FAVOR OF AN RoHS-COMPLIANT ZINC

STRAIGHT SIDE OR RADIUS PERMISSIBLE

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PART NO. EXAMPLE: **OHC 6C 8 DT S06GY** = 82° OVAL HEAD SCREW .138-32 X 1/2" LG, STEEL, TORX® RECESS, SEMI-GLOSS GRAY PER FED-STD-595 NO. 26492

HEAD TYPE	THREAD		L LENGTH									MATERIAL	COLOR CODE	DIMENSIONAL DATA				
	CODE	SIZE	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1			A SHARP	A' ABS. MIN.	E REF.	H	O MAX.
OHC	6C	.138-32 UNC-2A	4	5	6	7	8	10	12	14	16	DT ALLOY STEEL TORX® RECESS	SEE STOCK COLOR LIST Doc No. SCL870115	.279	.244	T15	.083	.128
	8C	.164-32 UNC-2A	4	5	6	7	8	10	12	14	16			.332	.292	T20	.100	.152
	10F	.190-32 UNF-2A		5	6	7	8	10	12	14	16			.385	.340	T25	.116	.176
	14C	.250-20 UNF-2A			6	7	8	10	12	14	16			.507	.452	T30	.153	.232

FEATURES:

1. Screws are furnished with pre-colored heads to match panels and equipment. The coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
2. Screw heads are formed by cold forging, followed by a heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
3. Screw heads are cleaned and prepared for maximum adhesion of the coating material. The thermosetting coating material is both abrasion and solvent resistant. Slight overspray on underside of head is permissible.

NOTES:

1. TORX® is a registered trademark of Camcar Textron.
2. The screws listed in this series reflect high quality with emphasis on the forming of the TORX® recess to meet design specification.
3. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.
4. The thread diameters and lengths listed in the table are industry

standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.

SPECIFICATIONS:

1. Screws are in accordance with ASME Standard No. B18.6.3, Recessed Head Machine Screws, except for recess.
2. Screws are stocked zinc plated in accordance with ASTM B633, Class SC1, Type II.
3. Threads are in conformance with H28 Federal Handbook for threads.
4. Coating colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

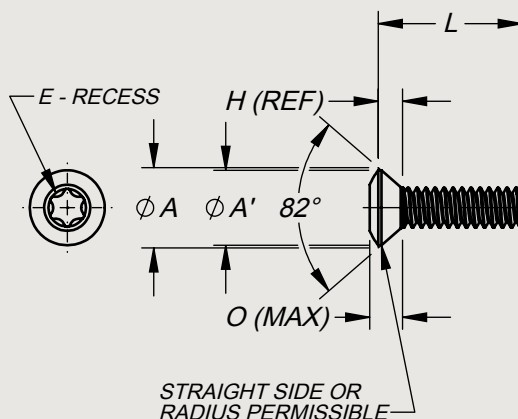
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COLORED SCREW

82° OVAL HEAD,
TORX® RECESS, MACHINE THREAD,
ALLOY STEEL, PLATED



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PART NO. EXAMPLE: **OHC 6C 8 ZRT S06GY** =

82° OVAL HEAD SCREW .138-32 X 1/2" LG, STEEL, RoHS ZINC, TORX® RECESS, SEMI-GLOSS GRAY PER FED-STD-595 NO. 26492

HEAD TYPE	THREAD		L LENGTH									MATERIAL	COLOR CODE	DIMENSIONAL DATA				
	CODE	SIZE	1 4	5 16	3 8	7 16	1 2	5 8	3 4	7 8	1			A SHARP	A' ABS. MIN.	E REF.	H	O MAX.
OHC	6C	.138-32 UNC-2A	4	5	6	7	8	10	12	14	16	ZRT ALLOY STEEL TORX® RECESS	SEE STOCK COLOR LIST Doc No. SCL870115	.279	.244	T15	.083	.128
	8C	.164-32 UNC-2A	4	5	6	7	8	10	12	14	16			.332	.292	T20	.100	.152
	10F	.190-32 UNF-2A		5	6	7	8	10	12	14	16			.385	.340	T25	.116	.176
	14C	.250-20 UNF-2A			6	7	8	10	12	14	16			.507	.452	T30	.153	.232

FEATURES:

1. Screws are furnished with pre-colored heads to match panels and equipment. The coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
2. Screw heads are formed by cold forging, followed by a heat treating process which increases the basic tensile strength of the material. The resultant high tensile strength thus eliminates burring and yield of the substrate under the coating material.
3. Screw heads are cleaned and prepared for maximum adhesion of the coating material. The thermosetting coating material is both abrasion and solvent resistant. Slight overspray on underside of head is permissible.

NOTES:

1. TORX® is a registered trademark of Camcar Textron.
2. The screws listed in this series reflect high quality with emphasis on the forming of the TORX® recess to meet design specification.
3. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.
4. The thread diameters and lengths listed in the table are industry

standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.

SPECIFICATIONS:

1. Screws are in accordance with ANSI/ASME Standard No. B18.6.3, Recessed Head Machine Screws.
2. Screws are zinc plated per ASTM B633, Class SC1 (min), Type VI-yellow, hexavalent chromium free, RoHS-Compliant.
3. Threads are in conformance with H28 Federal Handbook for threads.
4. Coating colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

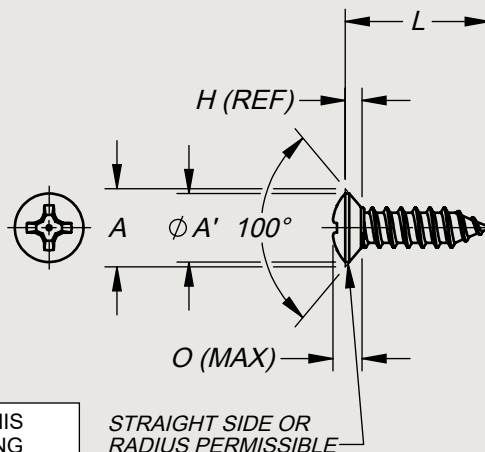
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COLORED SCREW

82° OVAL HEAD, TORX® RECESS,
MACHINE THREAD, ALLOY STEEL,
RoHS-COMPLIANT ZINC



ZINC PLATING ON THIS PART SERIES IS BEING PHASED OUT IN FAVOR OF AN RoHS-COMPLIANT ZINC

STRAIGHT SIDE OR RADIUS PERMISSIBLE

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PART NO. EXAMPLE: **OH 6SM 12 D G03RD** =

100° OVAL HEAD SHEET METAL SCREW,
6-20 X 3/4" LG, STEEL, PHILLIPS DRIVE,
GLOSS RED PER FED-STD-595 NO. 11105

HEAD TYPE	THREAD			RECOMMENDED INSTALLATION HOLE SIZE	L LENGTH TOL. ±.03							MATERIAL	COLOR CODE	HEAD DATA			
	CODE	NOMINAL DIAMETER	PITCH		1/4	3/8	1/2	5/8	3/4	7/8	1			A <small>SHARP</small>	A' <small>ABS. MIN.</small>	H <small>REF.</small>	O <small>MAX.</small>
OH	6SM	6	20	.104	4	6	8	10	12	14	16	D STEEL PHILLIPS DRIVE	SEE STOCK COLOR LIST Doc No. SCL870115	.279	.238	.060	.105
	8SM	8	18	.125		6	8	10	12	14	16			.332	.285	.072	.124
	10SM	10	16	.136		6	8	10	12	14	16			.385	.333	.083	.143

FEATURES:

1. Screws are furnished with pre-colored heads to match panels and equipment. The coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
2. Screw heads are formed by cold forging followed by a case hardening and heat treating process which increases the basic tensile strength of the material. The resulting high tensile strength thus eliminates burring and yield of the substrate under the coating material.
3. Screw heads are cleaned and prepared for maximum adhesion of the coating material. The thermosetting coating material is both abrasion and solvent resistant. Slight overspray on underside of head is permissible.

NOTES:

1. The screws listed in this series reflect high quality with emphasis on the forming of the Phillips recess to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.
3. The recommended installation hole sizes shown in the table are for light gage (.030) sheet metals. Compensation should be made for other materials and thicknesses. Refer to ANSI B18.6.4, Appendix VI.

4. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.
5. These screws are capable of forming mating threads in steel plate with a maximum Rockwell hardness of B70-85 without thread shearing or breakage.

SPECIFICATIONS:

1. Screws are in accordance with ASME Standard No. B18.6.3, Recessed Head Tapping Screws, Type AB thread.
2. Screws are stocked zinc plated per ASTM B633, Class SC1, Type II.
3. Coating colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

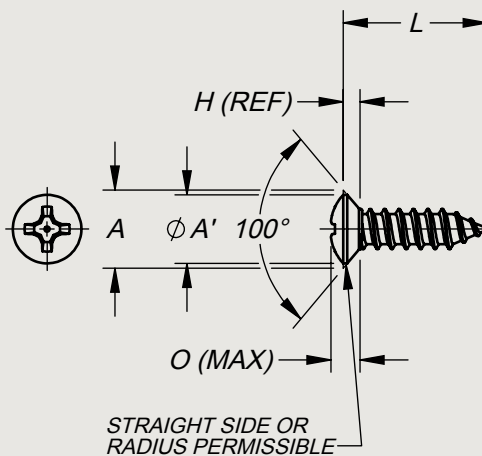
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COLORED SCREW

100° OVAL HEAD,
SHEET METAL THREAD, STEEL



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PART NO. EXAMPLE: **OH 6SM 12 ZR G03RD** =

100° OVAL HEAD SHEET METAL SCREW,
6-20 X 3/4" LG, STEEL, RoHS ZINC, PHILLIPS DRIVE,
GLOSS RED PER FED-STD-595 NO. 11105

HEAD TYPE	THREAD			RECOMMENDED INSTALLATION HOLE SIZE	L LENGTH TOL. ±.03								MATERIAL	COLOR CODE	HEAD DATA			
	CODE	NOMINAL DIAMETER	PITCH		1/4	3/8	1/2	5/8	3/4	7/8	1	A <small>SHARP</small>			A' <small>ABS. MIN.</small>	H <small>REF.</small>	O <small>MAX.</small>	
OH	6SM	6	20	.104	4	6	8	10	12	14	16	ZR STEEL PHILLIPS DRIVE RoHS COMPLIANT ZINC PLATE	SEE STOCK COLOR LIST Doc No. SCL870115	.279	.238	.060	.105	
	8SM	8	18	.125		6	8	10	12	14	16			.332	.285	.072	.124	
	10SM	10	16	.136		6	8	10	12	14	16			.385	.333	.083	.143	

FEATURES:

1. Screws are furnished with pre-colored heads to match panels and equipment. The coating material used in combination with the relatively hard screw heads is resistant to abrasion and screwdriver damage. This feature virtually eliminates the need for touch-up painting after assembly.
2. Screw heads are formed by cold forging followed by a case hardening and heat treating process which increases the basic tensile strength of the material. The resulting high tensile strength thus eliminates burring and yield of the substrate under the coating material.
3. Screw heads are cleaned and prepared for maximum adhesion of the coating material. The thermosetting coating material is both abrasion and solvent resistant. Slight overspray on underside of head is permissible.

NOTES:

1. The screws listed in this series reflect high quality with emphasis on the forming of the Phillips recess to meet design specification.
2. Care should be exercised to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material.

3. The recommended installation hole sizes shown in the table are for light gage (.030) sheet metals. Compensation should be made for other materials and thicknesses. Refer to ANSI B18.6.4, Appendix VI.
4. The thread diameters and lengths listed in the table are industry standard sizes. Inventory levels of these sizes may vary at any one time due to customer demands and lead time necessary for production. Lengths not listed are also available on order.
5. These screws are capable of forming mating threads in steel plate with a maximum Rockwell hardness of B70-85 without thread shearing or breakage.

SPECIFICATIONS:

1. Screws are in accordance with ASME Standard No. B18.6.3, Recessed Head Tapping Screws, Type AB thread.
2. Screws are zinc plated per ASTM B633, Class SC1 (min), Type VI-yellow, hexavalent chromium free, RoHS-Compliant.
3. Coating colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

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COLORED SCREW

100° OVAL HEAD,
SHEET METAL THREAD, PLATED STEEL,
RoHS-COMPLIANT ZINC

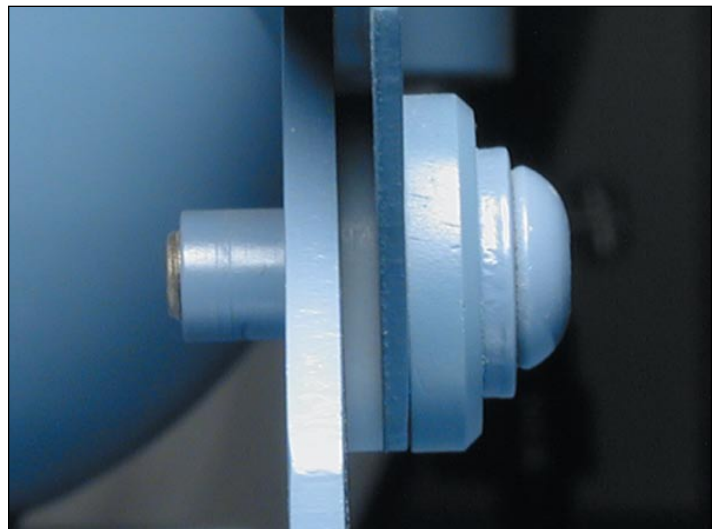
Pressure Displacement Stake Fasteners



This catalog section covers pressure displacement STAKE FASTENERS.

These fasteners are designed for use in applications where relatively strong threads are needed in a relatively soft mounting material. These pressure displacement fasteners must be installed into sheet material that is ductile and capable of forming into the knurled recess of the fastener without stress cracking, such as 2024-T3 or 6061-T6 aluminum. The principle which makes this product unique is the method of installation. The large flange is coined, or pressed, into the sheet until it is flush with the surface. The volume of displaced material is calculated to flow into and fill the void area around the knurled fastener undercut as the fastener is driven into the sheet. The effect of this principle is that deformation or rivet action occurs to the sheet, not to the fastener. Thus, the "Basic" fastener series listed in this catalog may be installed into a relatively soft metal, providing a relatively hard threaded hole, which is flush with the sheet on both surfaces.

The type "BA" and "BB" series fasteners also provide the grip area flush with both surfaces of the sheet after installation. However, in order to provide a self-locking thread feature, a thin-walled appendage is added which includes a spring action deformed thread. The "BA" series is used in the same manner of a conventional clinch nut with the screw entering through the grip area. The "BB" series is intended for housing the appendage in a thick sheet, such as an edge lighted panel, with the screw entering through the appendage. In both instances the self-locking feature is located on the appendage near the grip area, eliminating the need for the screw length to extend through and out of the fastener. In all cases the fastener should be installed to allow screw threads to enter the side opposite the large flange. When the screw is cinched at installation, the forces are applied against the large flange.



Pressure Displacement Fasteners

Installation Guidelines

The type “Basic”, “BA”, and “BB” fasteners are designed to be installed using standard presses (mechanical, hydraulic, or impact) commonly found in a shop environment. The tooling required is simply a punch and an anvil which can be installed in the press to be used. For the type “Basic” fastener, both the punch and anvil are flat. For the type “BA” and “BB” fasteners, a clearance hole (F & G dimensions) is required in the punch for the appendage. See

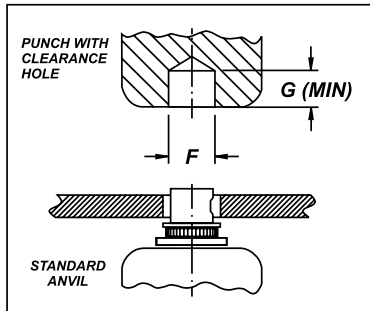


Table 1 below for recommended punch clearance hole size. Due to the wide variety of press equipment available and the simplicity of the punch and anvil required, it is intended that customers fabricate their own

punch and anvil to fit their particular equipment and applications.

Table 1- RECOMMENDED ANVIL CLEARANCE HOLES FOR TYPE 'BA' AND TYPE 'BB' FASTENERS

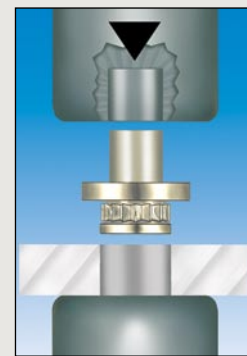
THREAD		APP DIA	TOOLING CLEARANCE HOLE		
CODE	SIZE	ØD	ØF	G	
2C	.086-56UNC-3B	.110	.1200	#31	.20
4C	.112-40UNC-3B	.139	.1470	#26	.23
6C	.138-32UNC-3B	.165	.1719	11/64	.26
8C	.164-32UNC-3B	.204	.2090	#4	.26
10F	.190-32UNF-3B	.229	.2344	15/64	.29
14F	.250-28UNF-3B	.300	.3125	5/16	.29

To install the fastener, a mounting hole must be punched or machined into the sheet per dimension 'E', shown on the part specifications. It is not necessary nor recommended that the mounting hole be deburred prior to installation. Place the sheet material with the mounting hole centered over the flat anvil. Locate the fastener with the small flange diameter towards the sheet (see Figure, INSERT) and centered over the mounting hole. Lower the punch over the fastener and locate the fastener appendage into the clearance hole for type 'BA' and 'BB' fasteners (see Figure, STAKE). Apply pressure between the punch and anvil to force the fastener into the sheet until the grip areas

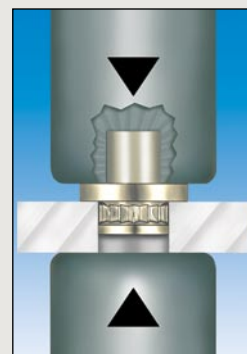
are flush with both surfaces of the sheet (see Figure, INSTALLED). This staking process should be performed in one continuous motion for best results. The amount of pressure to be applied will vary with fastener size, sheet thickness, and type of material used.



Installation of a type “BA” fastener



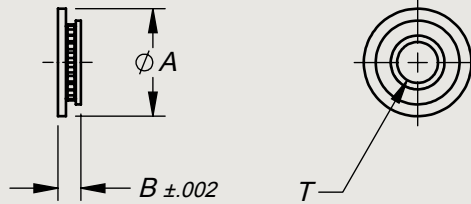
INSERT



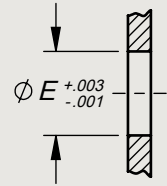
STAKE



INSTALLED



PANEL
MOUNTING
HOLE



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PART NO. EXAMPLE: **SF 6G 6C D**

HEAD TYPE	B THICKNESS									T THREAD		A	E	MATERIAL
	.04	.05	.06	.08	.09	.10	.12	.15	.18	CODE	SIZE	MAJ. DIA.	MTG. HOLE DIA.	
SF	4E	5E	6E							2C	.086-56 UNC-3B	.219	.156	D HIGH CARBON STEEL (SEE NOTE 1)
	4F	5F	6F	8F	9F	10F	12F			4C	.112-40 UNC-3B	.250	.188	
			6G	8G	9G	10G	12G			6C	.138-32 UNC-3B	.281	.219	
			6H	8H	9H	10H	12H	15H		8C	.164-32 UNC-3B	.312	.250	
			6J	8J	9J	10J	12J	15J	18J	10F	.190-32 UNF-3B	.375	.312	
				8L	9L	10L	12L	15L	18L	14F	.250-28 UNF-3B	.438	.375	

FEATURES:

1. The pressure displacement principle provides a fastener made of a relatively strong material installed into a relatively soft mounting material.
2. The basic fastener provides a steel threaded hole in a relatively soft material, flush with both surfaces of the mounting sheet.

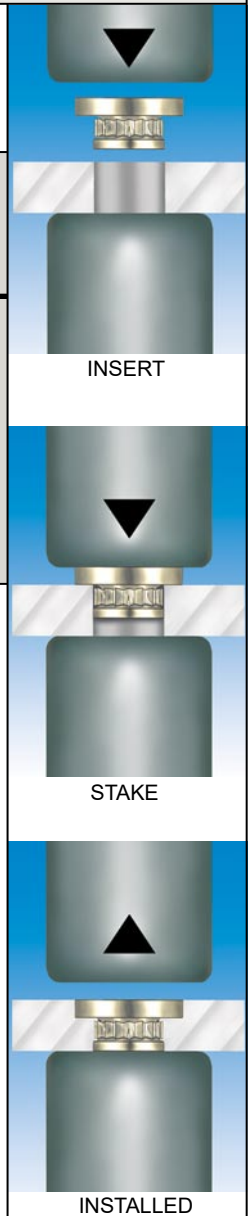
NOTES:

1. High carbon steel (Material Code **D**) parts are stock items. Parts made of type 303 corrosion resistant steel (MIL-S-7720) are available, on order, by using Material Code **C**.
2. Parts are installed by pressure displacement principle as illustrated by figures. Pressure is applied between two anvils which may be installed in any suitable equipment, such as hydraulic or impact punch presses. Pressure to be applied will vary with fastener size, sheet thickness and type of material used.

3. Sheet material must be ductile and capable of forming into knurled recess of fastener without stress cracking.
4. In all cases the fastener should be installed to allow screw threads to enter the side opposite the large flange. When the screw is cinched at installation, the forces are applied against the large flange.

SPECIFICATIONS:

1. Steel fasteners (Material Code **D**) are made of chrome molybdenum alloy per AISI4140 (or equal).
2. Steel fasteners (Material Code **D**) are cadmium plated per QQ-P-416, Type II, Class 2.
3. Corrosion resistant steel fasteners (Material Code **C**) are passivated per SAE-AMS-2700.

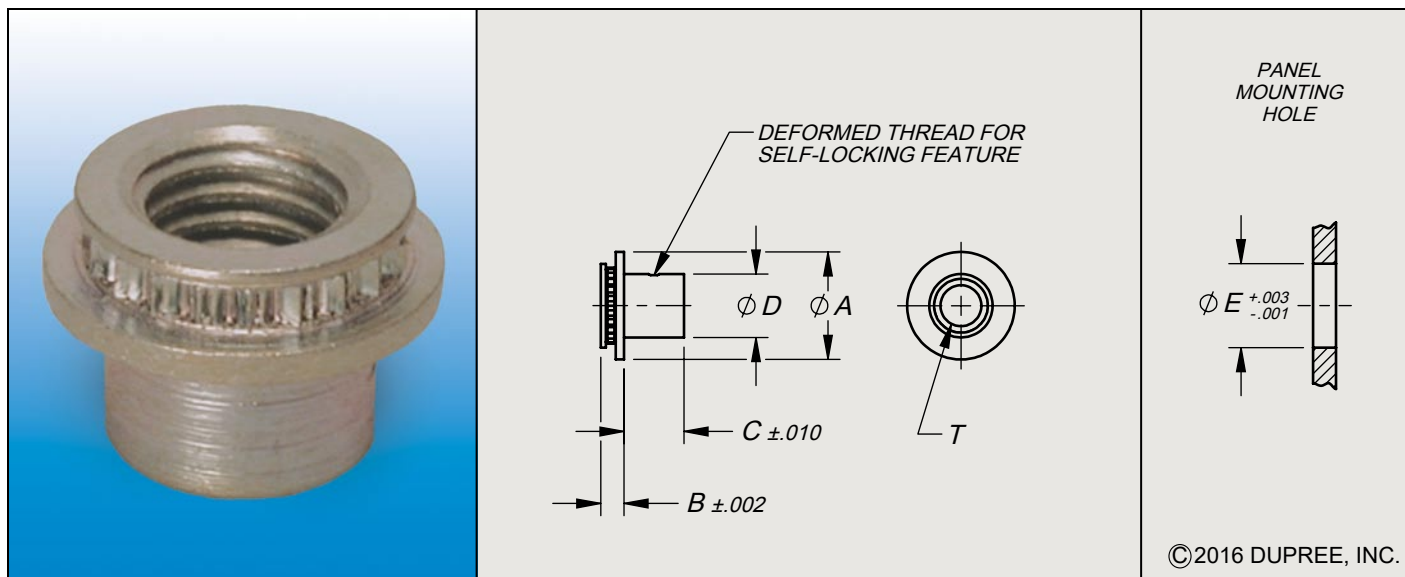


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FASTENER
TYPE BASIC
PRESSURE DISPLACEMENT



PART NO. EXAMPLE: **SF 6G 6C BA5 D**

HEAD TYPE	B THICKNESS								T THREAD		C APPENDAGE TYPE & LENGTH				A	D	E	MATERIAL		
	.04	.05	.06	.08	.09	.10	.12	.15	.18	CODE	SIZE	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	MAJ. DIA.	APP. DIA.		MTG. HOLE DIA.	
SF	4E	5E	6E							2C	.086-56 UNC-3B	BA3				.219	.110	.156	D HIGH CARBON STEEL (SEE NOTE 1)	
	4F	5F	6F	8F	9F	10F	12F			4C	.112-40 UNC-3B		BA4			.250	.139	.188		
	4G	5G	6G	8G	9G	10G	12G			6C	.138-32 UNC-3B			BA5		.281	.165	.219		
				6H	8H	9H	10H	12H	15H		8C	.164-32 UNC-3B			BA5		.312	.204		.250
				6J	8J	9J	10J	12J	15J	18J	10F	.190-32 UNF-3B				BA6	.375	.229		.312
					8L	9L	10L	12L	15L	18L	14F	.250-28 UNF-3B				BA6	.438	.300		.375

FEATURES:

1. The pressure displacement principle provides a fastener made of a relatively strong material installed into a relatively soft mounting material.
2. The BA fastener provides a steel threaded hole in a relatively soft material, flush with both surfaces of the mounting sheet, except for the protruding self-locking appendage.

NOTES:

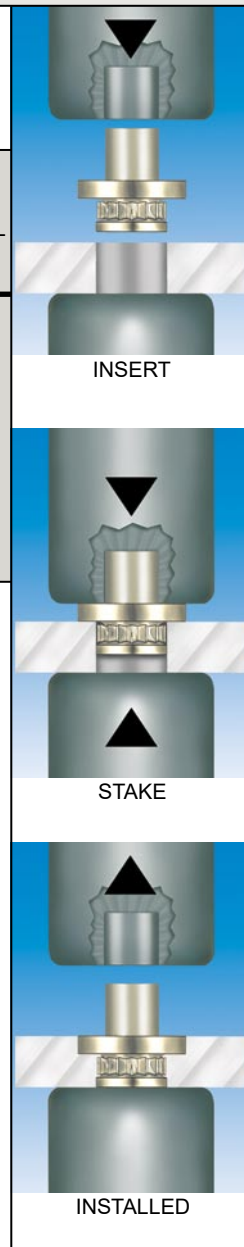
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2. Parts are installed by pressure displacement principle as illustrated by figures. Pressure is applied between a punch and an anvil which may be installed in any suitable equipment, such as hydraulic or impact punch presses. A clearance hole is shown in the punch to accommodate the self-locking appendage.

Pressure to be applied will vary with fastener size, sheet thickness and type of material used.

3. Sheet material must be ductile and capable of forming into knurled recess of fastener without stress cracking.
4. In all cases the fastener should be installed to allow screw threads to enter the side opposite the large flange. When the screw is cinched at installation, the forces are applied against the large flange.

SPECIFICATIONS:

1. Steel fasteners (Material Code **D**) are made of chrome molybdenum alloy per AISI4140 (or equal).
2. Steel fasteners (Material Code **D**) are cadmium plated per QQ-P-416, Type II, Class 2.
3. Corrosion resistant steel fasteners (Material Code **C**) are passivated per SAE-AMS-2700.

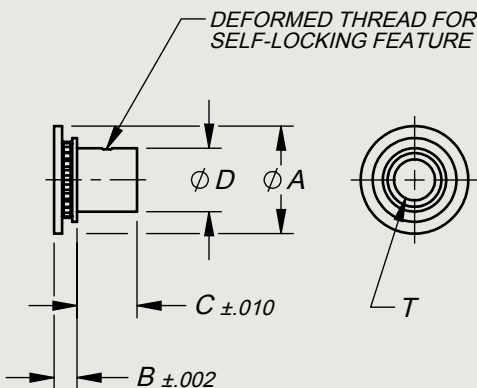


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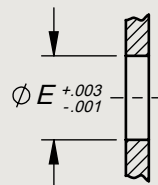
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FASTENER
TYPE BA
PRESSURE DISPLACEMENT



PANEL
MOUNTING
HOLE



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PART NO. EXAMPLE: **SF 6G 6C BB5 D**

HEAD TYPE	B THICKNESS									T THREAD		C APPENDAGE TYPE & LENGTH				A	D	E	MATERIAL
	.04	.05	.06	.08	.09	.10	.12	.15	.18	CODE	SIZE	$\frac{3}{32}$	$\frac{1}{8}$	$\frac{5}{32}$	$\frac{3}{16}$	MAJ. DIA.	APP. DIA.	MTG. HOLE DIA.	
SF	4E	5E	6E							2C	.086-56 UNC-3B	BB3				.219	.110	.156	D HIGH CARBON STEEL (SEE NOTE 1)
	4F	5F	6F	8F	9F	10F	12F			4C	.112-40 UNC-3B		BB4			.250	.139	.188	
	4G	5G	6G	8G	9G	10G	12G			6C	.138-32 UNC-3B			BB5		.281	.165	.219	
			6H	8H	9H	10H	12H	15H		8C	.164-32 UNC-3B			BB5		.312	.204	.250	
			6J	8J	9J	10J	12J	15J	18J	10F	.190-32 UNF-3B				BB6	.375	.229	.312	
				8L	9L	10L	12L	15L	18L	14F	.250-28 UNF-3B				BB6	.438	.300	.375	

FEATURES:

1. The pressure displacement principle provides a fastener made of a relatively strong material installed into a relatively soft mounting material.
2. The BB fastener provides a steel threaded hole in a relatively soft material, flush with both surfaces of the mounting sheet, except for the protruding self-locking appendage.

NOTES:

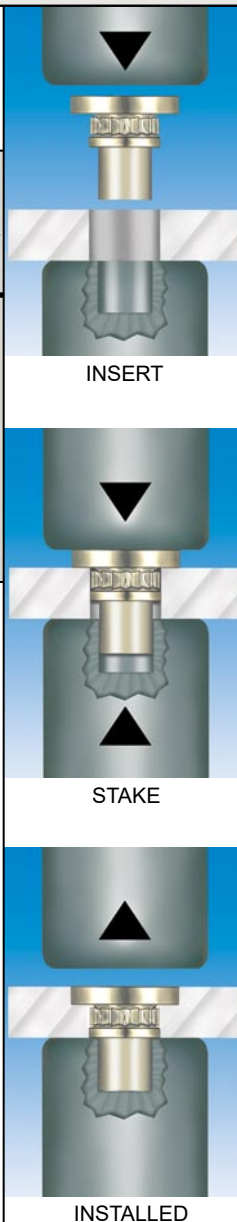
1. High carbon steel (Material Code **D**) parts are stock items. Parts made of type 303 corrosion resistant steel (MIL-S-7720) are available, on order, by using Material Code **C**.
2. Parts are installed by pressure displacement principle as illustrated by figures. Pressure is applied between a punch and an anvil which may be installed in any suitable equipment, such as hydraulic or impact punch presses. A clearance hole is shown in the punch to accommodate the self-locking appendage.

Pressure to be applied will vary with fastener size, sheet thickness and type of material used.

3. Sheet material must be ductile and capable of forming into knurled recess of fastener without stress cracking.
4. In all cases the fastener should be installed to allow screw threads to enter the side opposite the large flange. When the screw is cinched at installation, the forces are applied against the large flange.

SPECIFICATIONS:

1. Steel fasteners (Material Code **D**) are made of chrome molybdenum alloy per AISI4140 (or equal).
2. Steel fasteners (Material Code **D**) are cadmium plated per QQ-P-416, Type II, Class 2.
3. Corrosion resistant steel fasteners (Material Code **C**) are passivated per SAE-AMS-2700.



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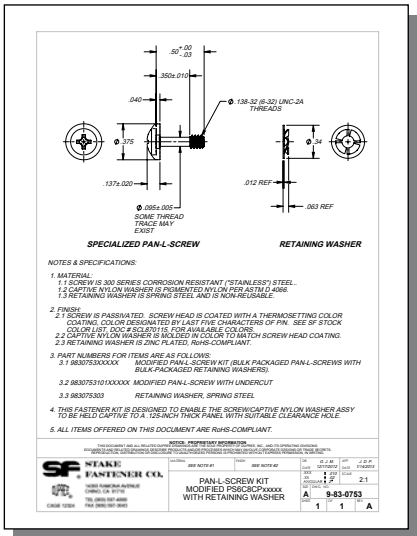
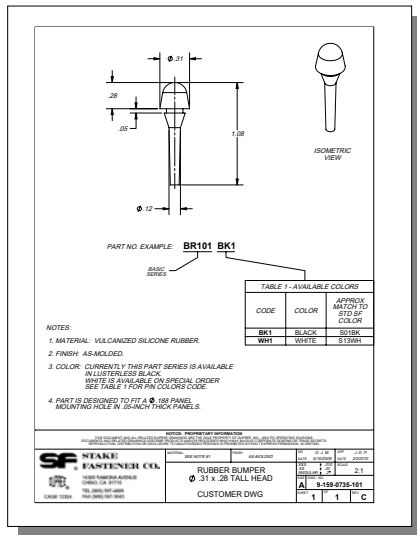
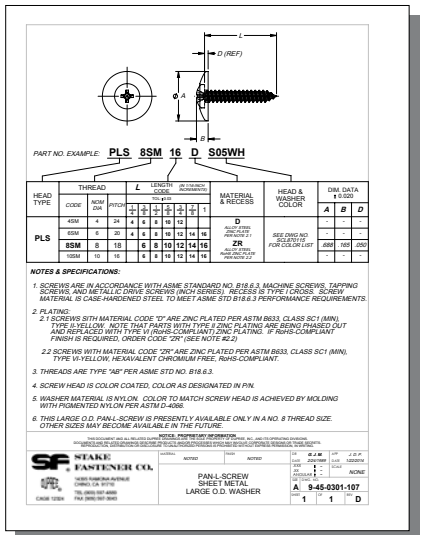
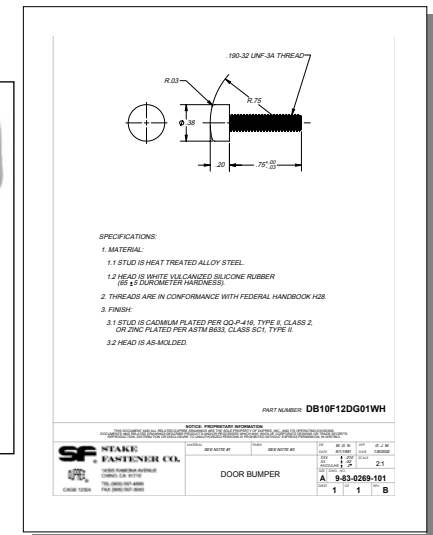
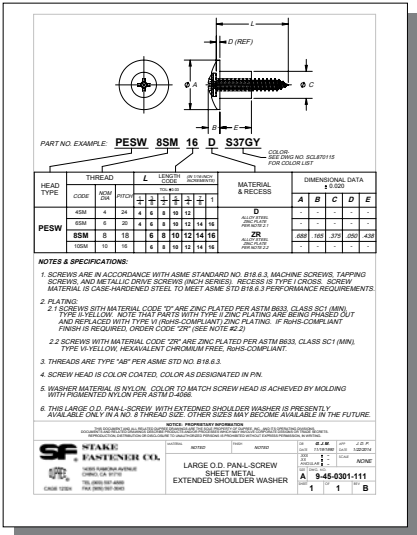
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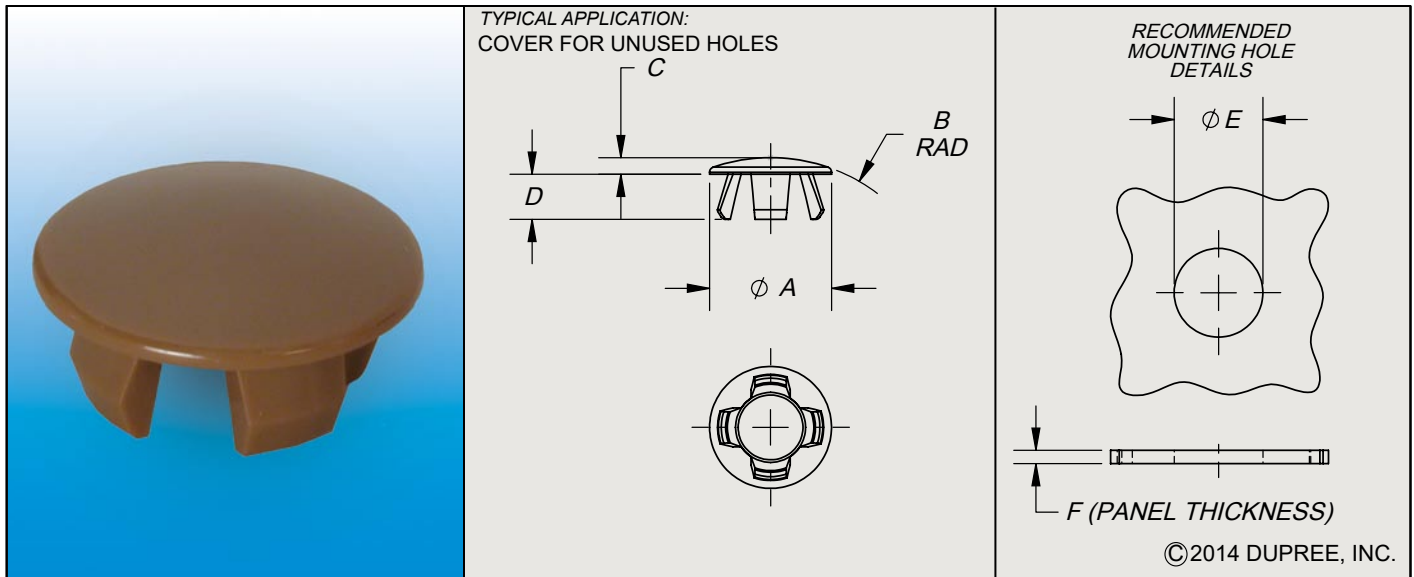


FASTENER
TYPE BB
PRESSURE DISPLACEMENT

Special Fasteners

Screws with head styles, special washers, drive shapes and thread forms, standard in the industry but not listed in this catalog, can be provided with pre-coated colored heads on order. Additionally, we often employ our expertise in cold heading, screw machine work, threading, injection and transfer molding, and coating processes to develop special items to meet our customer requirements. A few samples of these special items are shown below. We invite inquiries for such special items and look forward to working with our customers to provide products that will fulfill the needs of their special fastener application requirements.





PART NO. EXAMPLE: **SFHP 5006 S13BN** = COLORED HOLE PLUG, TO FIT .50" DIA HOLE IN .06" THK PANEL, SEMI-GLOSS BROWN PER FED-STD-595 NO. 20122

SERIES	NOMINAL SIZE		COLOR CODE	DIMENSIONAL DATA					
	CODE	DESCRIPTION		A	B	C	D	E	F
SFHP	5006	1/2" MTG HOLE DIA. 0.06" THK PANEL	SEE STOCK COLOR LIST Doc No. SCL870115	.697 .677	1.02 .98	.103 .083	.27 .23	.505 .495	.100 .050
	5617	9/16" MTG HOLE DIA 0.17" THK PANEL		.697 .677	1.02 .98	.103 .083	.26 MAX	.567 .557	.175 .165

FEATURES:

- Hole Plugs are color-matched to blend with the mounting surface of panels and equipment.
- Designed to snap in and hold firmly in place. Hole Plugs offer a simple cover for unneeded holes.
- The durable nylon material allows the product to be snapped out and reused, or left permanently in place for the life of the equipment.

NOTES:

- The Hole Plugs are designed to fit holes in panels detailed by dimensions "E" & "F" in the above table.
- For available colors, see Stock Color List, document no. SCL870115. Additional colors will be added upon request.
- Sizes or head styles other than those shown herein may be available. Contact factory for further inquiries.

SPECIFICATIONS:

- Hole Plug color is achieved by molding with pigmented nylon per ASTM D4066.
- Colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer-furnished color chips or samples.

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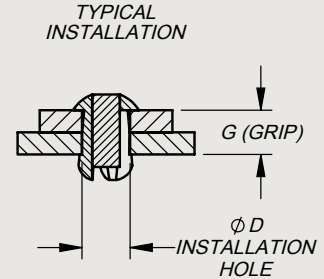
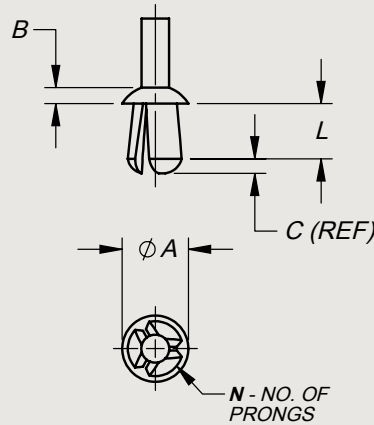
COLORED HOLE PLUG

MOLDED NYLON



TYPICAL APPLICATION:
VERY LIGHT LOAD RIVET FASTENING GENERALLY IN PLASTIC MATERIALS

P/N: **PRR4-2G02NA**
APPROX. 2X SIZE



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PART NO. EXAMPLE: **PRR 4 - 2 G02NA** = BLIND PLASTIC RIVET, ROUND HD, NOMINAL SIZE 1/8" HOLE DIA x 1/8" MAT'L GRIP, NATURAL COLOR PLASTIC

SERIES	NOMINAL SIZE		HOLE SIZE ("D" DIM) FOR RIVET DIAMETER & GRIP LENGTH																COLOR CODE	DIMENSIONAL DATA				
	CODE	DESC	APPLICATION GRIP ("G" DIMENSION)																	A	B	C	L	N
			.031	.062	.094	.125	.156	.188	.219	.250	.281	.312	.344	.375	.406	.438	.469	.500						
PRR	4-2	1/8" DIA 1/8" GRIP	.125	.125	.129	.136													G02NA NATURAL COLORED NYLON	.203 .171	.053 .040	.041 .141	.171 .141	3
	6-2	3/16" DIA 1/8" GRIP	.187	.187	.189	.199														.297 .265	.085 .065	.073 .141	.171 .141	4
	6-3	3/16" DIA 3/16" GRIP		.187	.187	.194	.204	.213											SEE STOCK COLOR LIST Doc No. SCL870115 FOR OTHER AVAILABLE COLORS	.297 .265	.085 .065	.077 .203	.233 .203	4
	8-4	1/4" DIA 1/4" GRIP			.250	.257	.261	.266	.272	.277										.454 .422	.148 .128	.085	.296 .266	4
	8-8	1/4" DIA 1/2" GRIP								.250	.250	.250	.261	.266	.277	.290	.295	.302		.391 .359	.120 .100	.098	.546 .516	4
	12-8	3/8" DIA 1/2" GRIP								.375	.375	.377	.386	.391	.397	.406	.413	.422		.453 .421	.113 .093	.100	.546 .516	4

FEATURES:

- These nylon blind rivets are intended for applications involving very light loads, generally in plastic materials.
- Rivets can be supplied in colors matched to customer requirements. Color can be matched to blend with mounting surfaces or to be a color indicator to suit customer needs.

NOTES:

- These nylon blind rivets are installed by placing rivet prongs into panel holes; bring panels together and place rivet head in contact with top panel, and then drive pin into rivet body.
- Rivets can be removed by driving pin through and out of rivet, and then removing rivet body from panels. It is recommended to replace these rivets with new once they are removed from an installation.

SPECIFICATIONS:

- Rivet material is polyamide nylon 66 resin. Rivets are not load-rated.
- Rivets can be supplied in either natural-colored nylon, color code is "G02NA", or color matched to customer requirements. See Stock Color List, document no. SCL870115 for available colors.
- Colors are matched to customer requirements. We recommend selection from FED-STD-595 whenever possible but we are also prepared to match customer furnished color chips or samples.
- Recommended panel hole size is listed in above table and is based on application grip length ("G" dimension). For example, when using p/n: PRR8-4G02NA in panels where "G" = .188, the recommended hole size is .266 (17/64" drill).

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BLIND RIVET
ROUND HEAD, PLASTIC

Appendix A - Technical Notes

Screwdrivers

Our fasteners are manufactured using high quality materials with emphasis on the forming of the drive recess to meet design specifications. We urge customers to exercise care to assure that the screwdriver tools meet the same quality and design specification in order to eliminate mismatching and subsequent damage to the drive recess and coating material. We also suggest slightly de-burring the driver tools to remove extreme sharp edges to minimize cutting of the coating materials. This can be achieved by dressing the tool bit with a wire brush as a locksmith does to a newly cut key.

PAN-L-SCREW Tightening Torque

Care must be exercised during installation of PAN-L-SCREWS to prevent over-tightening due to the nature of the nylon washer material. Over-tightening is possible and results in deformed washers. Several factors are involved with determining the proper installation torque, including PAN-L-SCREW size, clearance hole size and thread fit. In most applications we recommend tightening until snug and then tightening an additional 1/4 to 1/2 turn. The compression effect of the nylon washer between the screw head and panel will provide a self-locking feature to prevent vibration from loosening the screw in most applications.



All products are subjected to our documented ISO 9001:2008 and AS9100C quality procedures and are lot-traceable.

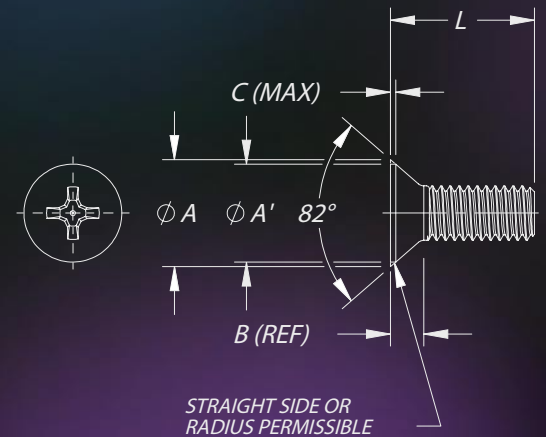
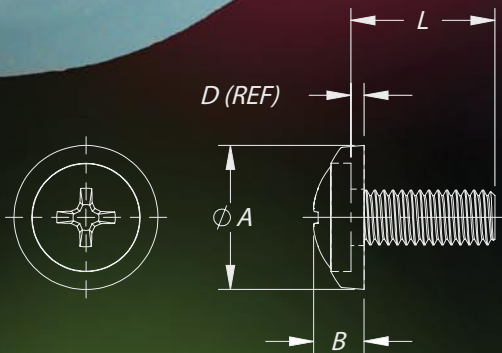
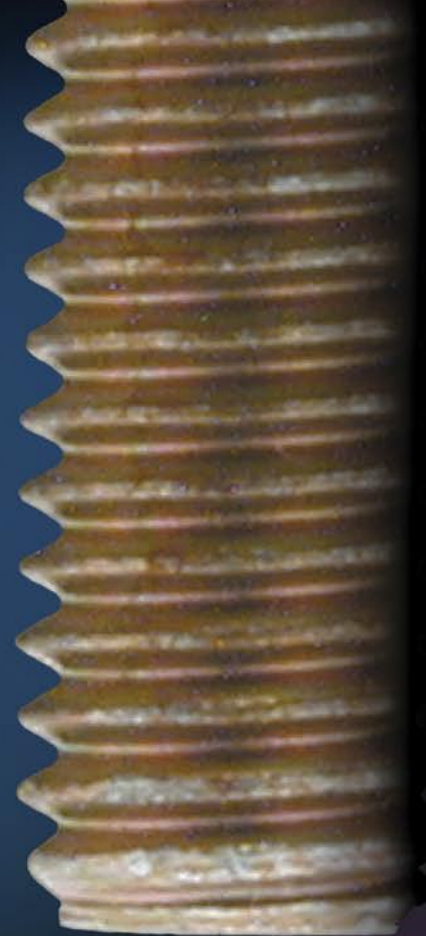
Material Handling

Parts are carefully packaged before shipment to customers. Parts are bagged, labeled, tightly wrapped, and properly boxed to protect the color coating during shipment. Package quantities are determined by fastener size to provide proper protection. We recommend that parts remain in their original packing material until just before use. If it is necessary to re-package, then necessary care must be exercised to minimize damage from threads rubbing against color-coated surfaces. The color coating material is very durable but it is a coated surface and can be damaged if proper care is not exercised.

Nominal Thread Sizes

To conform to accepted industry standard practices, the nominal thread sizes for machine threads which are specified in this catalog (for non-metric items) are called out in decimal inches, instead of using the screw number or fractional diameter as was customary in the past. The following table gives the equivalent of the screw number / fractional size to the decimal size:

SCREW DIAMETER (NUMBER or FRACTIONAL SIZE)	DECIMAL SIZE
2	0.0860
4	0.1120
6	0.1380
8	0.1640
10	0.1900
12	0.2160
14	0.2500
5/16	0.3125
3/8	0.3750



Stake Fastener Company has been the industry standard for color-coated screws and fasteners for over sixty years. Our products are suitable for most applications where a decorative, color-matched fastener is required.



Stake Fastener Company

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SU64-0009K REV. 07-30-2021