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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 SHARP	A' ABS. MIN.	H REF.	O MAX.
OH	<b>6SM</b>	6	20	.104	<b>4</b>	<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>	<b>ZR</b> STEEL PHILLIPS DRIVE RoHS COMPLIANT ZINC PLATE	SEE STOCK COLOR LIST Doc No. SCL870115	.279	.238	.060	.105
	<b>8SM</b>	8	18	.125		<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>			.332	.285	.072	.124
	<b>10SM</b>	10	16	.136		<b>6</b>	<b>8</b>	<b>10</b>	<b>12</b>	<b>14</b>	<b>16</b>			.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