



METRIC - ISO 7045 PAN PHIL SPLIT LOCKWASHER SEMS													ISO 7045
Machine Screw Dimensions							Split Lockwasher Dimensions						Phillips Driver Size
Nominal Size	Thread Pitch	A		H1		M	D		T		R		
		Head Diameter		Height of Head		Recess Diameter	Outside Diameter		Free Height		Section Thickness		
		Max	Min	Max	Min	Ref	Max	Min	Max	Min	Max	Min	
M3	0.5	5.6	5.3	2.40	2.26	3	5.6	5.3	1.3	1.1	0.80	0.60	1
M4	0.7	8.00	7.64	3.10	2.92	4.4							2
Tolerance on Length				over 3mm to 6mm				± 0.24					
				over 6mm to 10mm				± 0.29					
				over 10mm to 18 mm				±0.35					

Description	A cross-recessed, pan head machine screw with a free-spinning, captive, helical split lockwasher.	
Applications/Advantages	The washer/screw assembly makes this a locking screw with the washer providing the locking action. Machine pre-assembly provides cost savings to the end user. The split lockwasher variety is preferred for use with hardened bearing surfaces.	
Component	<i>Screw</i>	<i>Helical Split Lockwasher</i>
Material	C1008 or equivalent carbon steel	Spring Steel
Hardness	Rockwell B 67 minimum	HV 430 - 530
Tensile Strength	400 N/mm <sup>2</sup> (applies to screws with a minimum nominal length of 2.5 <i>d</i> (where <i>d</i> is the nominal diameter of the screw))	-
Plating	Sems are available in a clear zinc finish and baked after plating.	