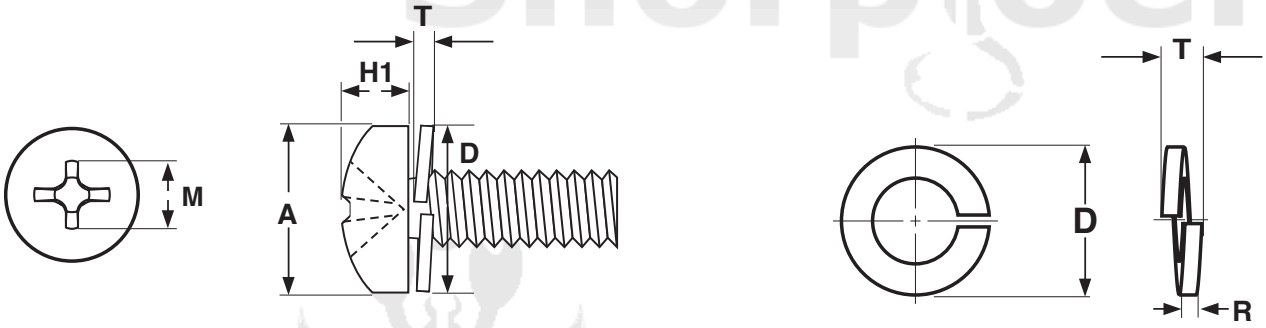
ISO 7045 Pan Phillips Helical Split L/W

SEMS



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	Max	Min	Max	Min	
M2	0.4	4	3.7	1.6	1.46	2.2	3.7	-	0.85	0.80	0.60	1
M2.5	0.45	5	4.7	2.1	1.96	2.70	4.90	-	1	0.80	0.79	1
M3	0.5	5.6	5.3	2.40	2.26	3	5.6	1.3	1.1	0.80	0.60	1
M4	0.7	8	7.64	3.1	2.92	4.4	6.8	1.4	1.2	0.90	0.70	2
M5	0.8	9.5	9.14	3.7	3.52	4.9	8.34	-	2.2	-	1.42	2

Tolerance on Length	over 3mm to 6mm	± 0.24
	over 6mm to 10mm	± 0.29
	over 10mm to 18 mm	±0.35
	over 18mm to 30 mm	±0.42

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.	
Material	***Steel***	***Stainless***
	Screw: C1008 or equivalent carbon steel Washer: Spring Steel	Screw: Class 304 SS Washer: Class 304 SS
Hardness	Screw: Rockwell B 67 minimum Washer: HV 430 - 530	-
Tensile Strength	400 N/mm^2 (applies to screws with a minimum nominal length of 2.5*d* (where d is the nominal diameter of the screw)	-
Plating	Sems are available in a clear zinc finish and baked after plating.	Stainless sems are usually supplied without a secondary finish.