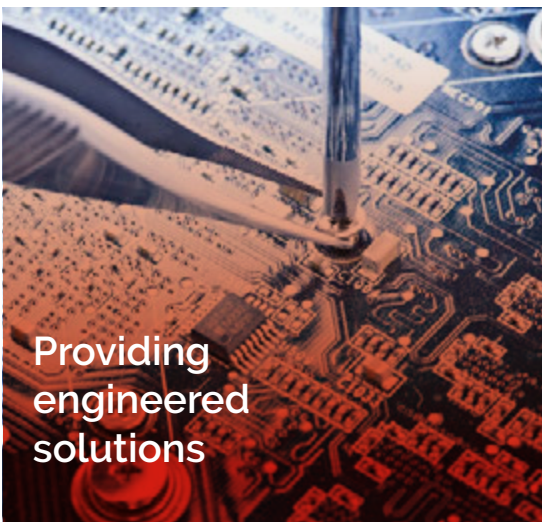
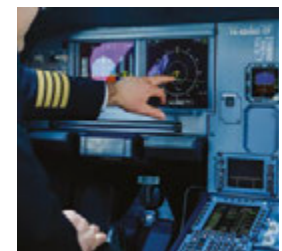
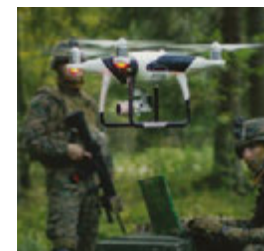
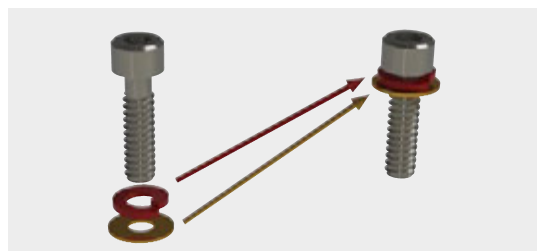


SEMS FASTENERS

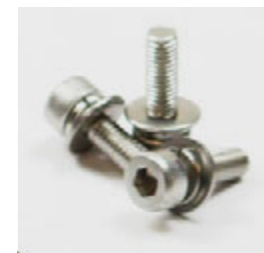
PRODUCT GUIDE



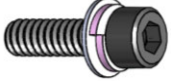
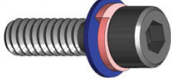
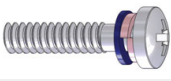
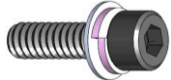
Providing
engineered
solutions



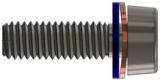
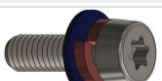
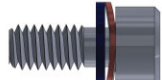
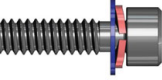
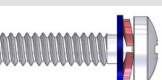
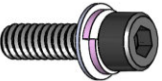
Your added
value solution
provider



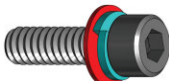
ALL WASHERS ARE CAPTIVATED BY THREAD ROLLING

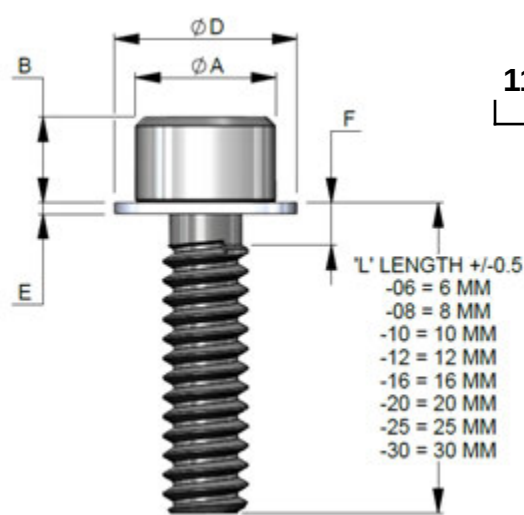
Illustration	Reference	Material	Hex Socket 	Cross Recess 	Hexalobular 	Spacer 	Description	Flat Washer	Lock Washer
	<u>115-01X</u>	316 A4-70	ISO 4762					STD	NONE
	<u>115-02X</u>	316 A4-70	ISO 4762					STD	
	<u>115-03X</u>	316 A4-70	ISO 4762				Increased shank	STD	
	<u>115-04X</u>	316 A4-70	ISO 4762					SMALL	NONE
	<u>115-06X</u>	316 A4-70			ISO 14580			SMALL	NONE
	<u>115-07X</u>	316 A4-70		DIN 7985				SMALL	
	<u>115-08X</u>	316 A4-70		DIN 7985				STD	
	<u>115-09X</u>	316 A4-70	ISO 4762					SMALL	
	<u>115-10X</u>	316 A4-70		DIN 7985			Increased shank	STD	 OR 
	<u>115-11X</u>	316 A4-70		DIN 7985			Increased shank	STD	

ALL WASHERS ARE CAPTIVATED BY THREAD ROLLING

Illustration	Reference	Screw Material	Hex Socket 	Cross Recess 	Hexalobular 	Spacer 	Description	Flat Washer	Lock Washer 
	<u>115-12X</u>	316 A4-70			ISO 14580			STD	
	<u>115-13X</u>	316 A4-70			ISO 14580			STD	NONE
	<u>115-14X</u>	316 A4-70			ISO 14580			SMALL	
	<u>115-15X</u>	316 A4-70		DIN 7985				STD	NONE
	<u>115-17X</u>	316 A4-70	ISO 4762					STD	
	<u>115-25X</u>	316 A4-70				Hex Spacer		STD	NONE
	<u>115-26X</u>	316 A4-70				Hex Spacer		STD	
	<u>115-30X</u>	316 A4-70	ISO 4762					STD	
	<u>115-31X</u>	316 A4-70		DIN 7985				STD	
	<u>115-40X</u>	A286	ISO 4762					STD	

ALL WASHERS ARE CAPTIVATED BY THREAD ROLLING

Illustration	Reference	Screw Material	Hex Socket 	Cross Recess 	Hexalobular 	Spacer 	Description	Flat Washer	Lock Washer
	<u>116-01X</u>	316 A4-70	BS 2470					STD	NONE
	<u>116-02X</u>	316 A4-70	BS 2470					STD	
	<u>116-03X</u>	316 A4-70	BS 2470					SMALL	NONE
	<u>116-08X</u>	316 A4-70		BS 1981				STD	
	<u>116-09X</u>	316 A4-70		BS 1981			Increased shank	STD	
	<u>116-40X</u>	A286	BS 2470					STD	



PART NUMBER CALL OUT

115-01 1 - 025 - 06 P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-01X = METRIC SERIES WITH PLAIN WASHERS

PART NUMBER EXAMPLE:

115-011-025-06 P = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

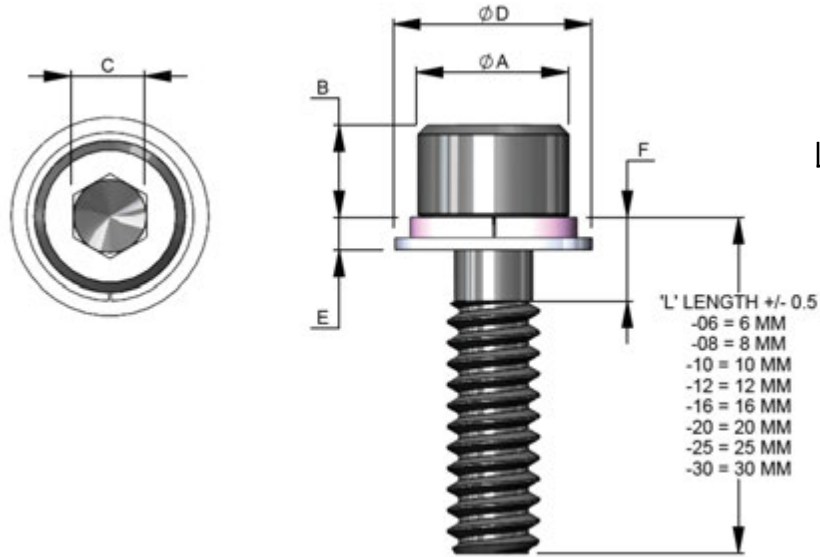
MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

**115-01X SOCKET CAP HEAD SEMS
WITH PLAIN WASHER**



METRIC SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	A/F Recess	Washer Diam	Washer Thk	(1)
115-01(X)-020-(XX)	M2 X 0.4	3.8	2.0	1.5	5.0/4.7	0.3	0.9
115-01(X)-025-(XX)	M2.5 X 0.45	4.5	2.5	2.0	6.5/6.2	0.5	1.2
115-01(X)-030-(XX)	M3 X 0.5	5.5	3.0	2.5	7.0/6.7	0.5	1.3
115-01(X)-040-(XX)	M4 X 0.7	7.0	4.0	3.0	9.0/8.7	0.5	1.6
115-01(X)-050-(XX)	M5 X 0.8	8.5	5.0	4.0	10.0/9.7	0.7	1.9
115-01(X)-060-(XX)	M6 X 1.0	10.0	6.0	5.0	12.5/12.1	0.7	2.2
115-01(X)-080-(XX)	M8 X 1.25	13.0	8.0	6.0	17.0/16.6	1.0	2.9
115-01(X)-100-(XX)	M10 X 1.5	16.0	10.0	8.0	21.0/20.5	1.0	3.3
(1) Distance before full thread starts				All dimensions in MM			
Head Dimensions to ISO 4762				Rolled thread to BS 3643			



PART NUMBER CALL OUT

115-02 1 - 025 - 06 P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-02X = METRIC SERIES WITH PLAIN AND LOCK WASHERS

PART NUMBER EXAMPLE:

115-021-025-06 P = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

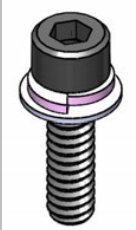
MATERIAL: 316 (A4-70) STAINLESS STEEL

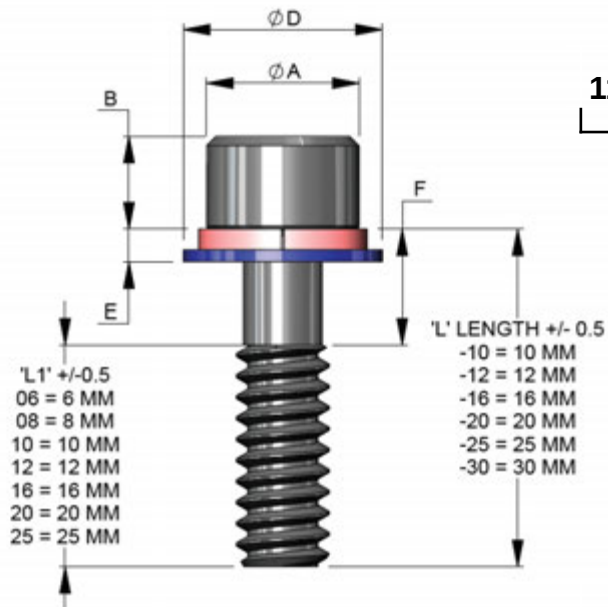
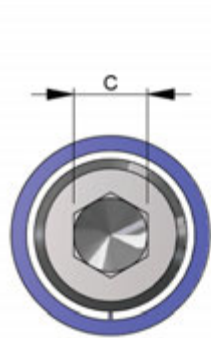
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT



METRIC SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	A/F Recess	Washer Diam	Washers Thk (2)	(1)
115-02(X)-020-(XX)	M2 X 0.4	3.8	2.0	1.5	5.0/4.7	0.8	2.3
115-02(X)-025-(XX)	M2.5 X 0.45	4.5	2.5	2.0	6.5/6.2	1.1	2.8
115-02(X)-030-(XX)	M3 X 0.5	5.5	3.0	2.5	7.0/6.7	1.5	3.8
115-02(X)-040-(XX)	M4 X 0.7	7.0	4.0	3.0	9.0/8.7	1.7	4.6
115-02(X)-050-(XX)	M5 X 0.8	8.5	5.0	4.0	10.0/9.7	2.2	5.6
115-02(X)-060-(XX)	M6 X 1.0	10.0	6.0	5.0	12.5/12.1	2.2	5.9
115-02(X)-080-(XX)	M8 X 1.25	13.0	8.0	6.0	17.0/16.6	3.0	7.8
115-02(X)-100-(XX)	M10 X 1.5	16.0	10.0	8.0	21.0/20.5	3.2	9.4
(1) Distance before full thread starts				(2) Washers in compressed state		All dimensions in MM	
Head Dimensions to ISO 4762				Rolled thread to BS 3643			

115-02X SOCKET CAP HEAD SEMS WITH PLAIN AND LOCK WASHERS





PART NUMBER CALL OUT

115-03 1 - 030 -10 06 P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

THREAD LENGTH (L1) IN MM
E.G. 06=6 MM

UNDERHEAD LENGTH (L) IN MM
E.G. -10=10 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

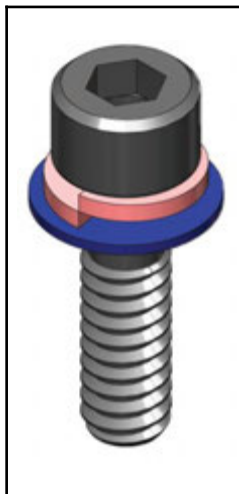
SEMS SERIES
115-03X = METRIC SERIES WITH PLAIN AND LOCK
WASHERS

PART NUMBER EXAMPLE:

115-031-030-1006 P = METRIC SEMS, PASSIVATED, 10 MM LONG, 6 MM OF THREAD, WITH PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT



METRIC SERIES

PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	A/F Recess	Washer Diam	Washers Thk (2)	(1)
115-03(X)-020-(XXXX)	M2 X 0.4	3.8	2.0	1.5	5.0/4.7	0.8	4
115-03(X)-025-(XXXX)	M2.5 X 0.45	4.5	2.5	2.0	6.5/6.2	1.1	4
115-03(X)-030-(XXXX)	M3 X 0.5	5.5	3.0	2.5	7.0/6.7	1.5	4
115-03(X)-040-(XXXX)	M4 X 0.7	7.0	4.0	3.0	9.0/8.7	1.7	6
115-03(X)-050-(XXXX)	M5 X 0.8	8.5	5.0	4.0	10.0/9.7	2.2	6
115-03(X)-060-(XXXX)	M6 X 1.0	10.0	6.0	5.0	12.5/12.1	2.2	6
115-03(X)-080-(XXXX)	M8 X 1.25	13.0	8.0	6.0	17.0/16.6	3.0	8
115-03(X)-100-(XXXX)	M10 X 1.5	16.0	10.0	8.0	21.0/20.5	3.2	10

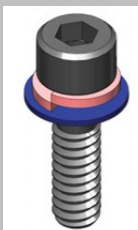
(1) Minimum difference between 'L' and L1

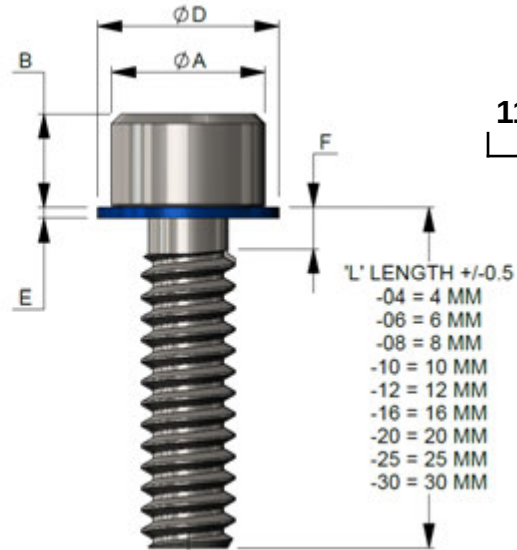
(2) Washers in compressed state

All dimensions in MM

Head Dimensions to ISO 4762

Rolled thread to BS 3643





PART NUMBER CALL OUT

115-04 1 - 025 - 06 P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-04X = METRIC SERIES WITH SMALL PLAIN WASHER

PART NUMBER EXAMPLE:

115-041-025-06 P = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

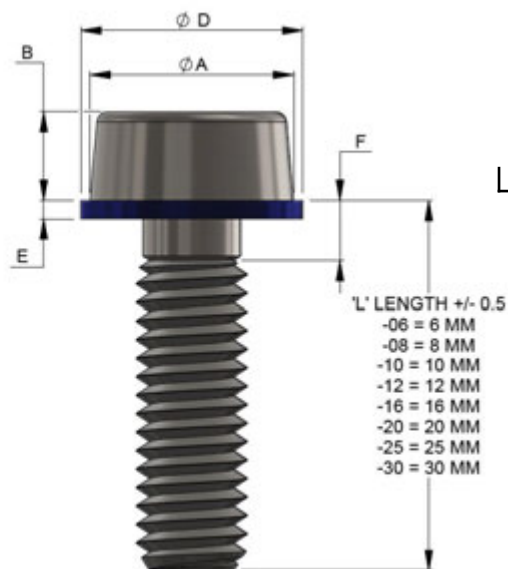
MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

115-04X SOCKET CAP HEAD SEMS WITH SMALL PLAIN WASHER

METRIC SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	A/F Recess	Washer Diam	Washer Thk	(1)
115-04(X)-020-(XX)	M2 X 0.4	3.8	2.0	1.5	4.5/4.2	0.3	0.9
115-04(X)-025-(XX)	M2.5 X 0.45	4.5	2.5	2.0	5.0/4.7	0.5	1.2
115-04(X)-030-(XX)	M3 X 0.5	5.5	3.0	2.5	6.0/5.7	0.5	1.3
115-04(X)-040-(XX)	M4 X 0.7	7.0	4.0	3.0	8.0/7.6	0.5	1.6
115-04(X)-050-(XX)	M5 X 0.8	8.5	5.0	4.0	9.0/8.6	1.0	2.2
115-04(X)-060-(XX)	M6 X 1.0	10.0	6.0	5.0	11.0/10.5	1.6	3.1
115-04(X)-080-(XX)	M8 X 1.25	13.0	8.0	6.0	15.0/14.5	1.6	3.5
115-04(X)-100-(XX)	M10 X 1.5	16.0	10.0	8.0	18.0/17.5	1.6	3.9
(1) Distance before full thread starts				All dimensions in MM			
Head Dimensions to ISO 4762				Rolled thread to BS 3643			





PART NUMBER CALL OUT

115-06 1 - 025 - 06 P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-06X = METRIC SERIES WITH SMALL PLAIN WASHER

PART NUMBER EXAMPLE:

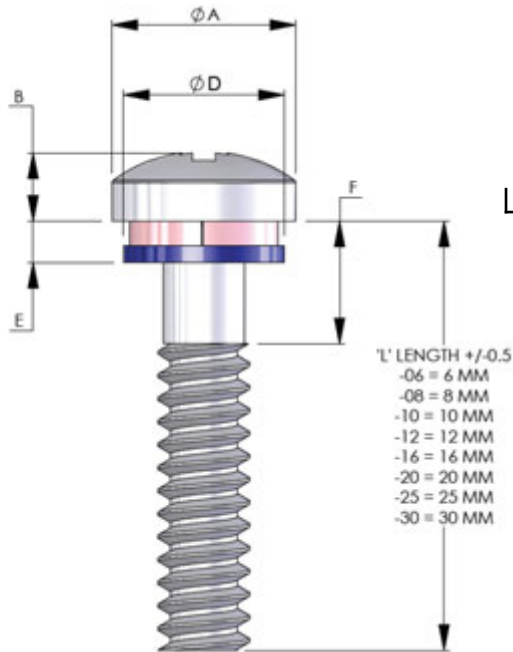
115-061-025-06 P = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

METRIC SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Socket No	Washer Diam	Washer Thk	(1)
115-06(X)-020-(XX)	M2 X 0.4	3.8	1.55	6	4.5/4.2	0.3	0.9
115-06(X)-025-(XX)	M2.5 X 0.45	4.5	1.85	8	5.0/4.7	0.5	1.2
115-06(X)-030-(XX)	M3 X 0.5	5.5	2.40	10	6.0/5.7	0.5	1.3
115-06(X)-040-(XX)	M4 X 0.7	7.0	3.10	20	8.0/7.6	0.5	1.6
115-06(X)-050-(XX)	M5 X 0.8	8.5	3.65	25	9.0/8.6	1.0	2.2
115-06(X)-060-(XX)	M6 X 1.0	10.0	4.40	30	11.0/10.5	1.6	3.1
115-06(X)-080-(XX)	M8 X 1.25	13.0	5.80	45	15.0/14.5	1.6	3.5
115-06(X)-100-(XX)	M10 X 1.5	16.0	6.90	50	18.0/17.5	1.6	3.9
(1) Distance before full thread starts				All dimensions in MM			
Head Dimensions to BS EN 14580				Rolled thread to BS 3643			





PART NUMBER CALL OUT

115-07 1 - 025 - 06 P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-07X = METRIC SERIES WITH SMALL PLAIN
AND LOCK WASHERS

PART NUMBER EXAMPLE:

115-071-025-06 P = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT



METRIC SERIES

PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Driver Size	Washer Diam	Washers Thk (2)	(1)
115-07(X)-020-(XX)	M2 X 0.4	4.0	1.6	1	4.5/4.2	0.8	2.3
115-07(X)-025-(XX)	M2.5 X 0.45	5.0	2.0	1	5.0/4.7	1.1	2.8
115-07(X)-030-(XX)	M3 X 0.5	6.0	2.4	1	6.0/5.7	1.5	3.8
115-07(X)-040-(XX)	M4 X 0.7	8.0	3.1	2	8.0/7.6	1.7	4.6
115-07(X)-050-(XX)	M5 X 0.8	10.0	3.8	2	9.0/8.6	2.5	5.9
115-07(X)-060-(XX)	M6 X 1.0	12.0	4.6	3	11.0/10.5	3.1	6.8
115-07(X)-080-(XX)	M8 X 1.25	16.0	6.0	4	15.0/14.5	3.6	8.4
115-07(X)-100-(XX)	M10 X 1.5	20.0	7.5	4	18.0/17.5	3.8	10.0

(1) Distance before full thread starts

(2) Washers in compressed state

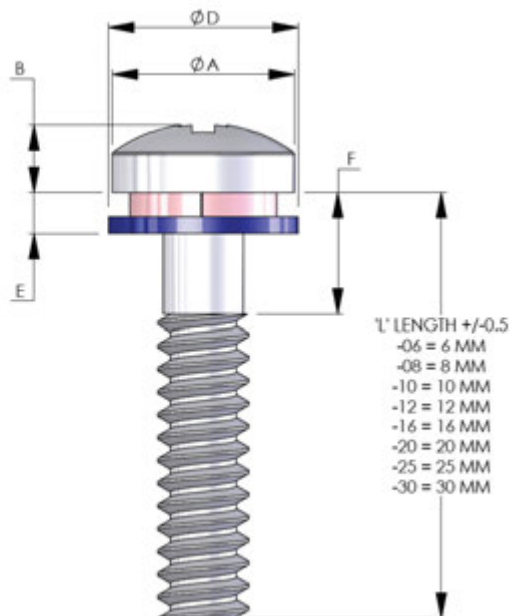
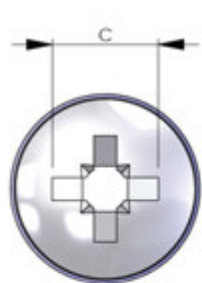
All dimensions in MM

Head Dimensions to DIN 7985 TYPE Z

Rolled thread to BS 3643

115-07X CROSS RECESS PAN HEAD SEMS WITH SMALL PLAIN WASHER AND LOCK WASHER





PART NUMBER CALL OUT

115-08 1 - 025 - 06 P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-08X = METRIC SERIES WITH PLAIN AND LOCK WASHERS

PART NUMBER EXAMPLE:

115-081-025-06 P = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

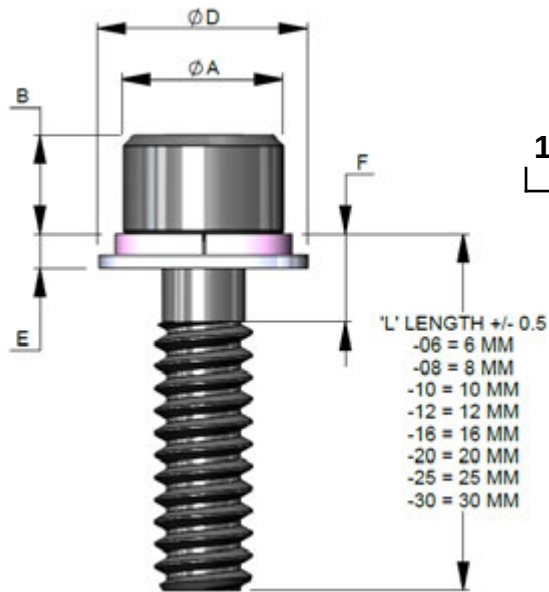
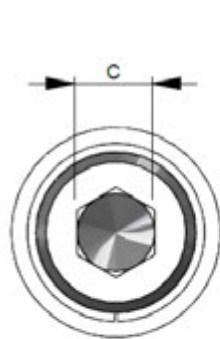
115-08X CROSS RECESS PAN HEAD SEMS WITH PLAIN AND LOCK WASHERS



METRIC SERIES

PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Driver Size	Washer Diam	Washers Thk (2)	(1)
115-08(X)-020-(XX)	M2 X 0.4	4.0	1.6	1	5.0/4.7	0.8	2.3
115-08(X)-025-(XX)	M2.5 X 0.45	5.0	2.0	1	6.5/6.2	1.1	2.8
115-08(X)-030-(XX)	M3 X 0.5	6.0	2.4	1	7.0/6.7	1.5	3.8
115-08(X)-040-(XX)	M4 X 0.7	8.0	3.1	2	9.0/8.7	1.7	4.6
115-08(X)-050-(XX)	M5 X 0.8	10.0	3.8	2	10.0/9.7	2.2	5.6
115-08(X)-060-(XX)	M6 X 1.0	12.0	4.6	3	12.5/12.1	2.2	5.9
115-08(X)-080-(XX)	M8 X 1.25	16.0	6.0	4	17.0/16.6	3.0	7.8
115-08(X)-100-(XX)	M10 X 1.5	20.0	7.5	4	21.0/20.5	3.2	9.4
(1) Distance before full thread starts		(2) Washers in compressed state			All dimensions in MM		
Head Dimensions to DIN 7985 TYPE Z					Rolled thread to BS 3643		





PART NUMBER CALL OUT

115-09 1 - 025 - 06 P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-09X = METRIC SEMS WITH SMALL PLAIN WASHER AND LOCK WASHER

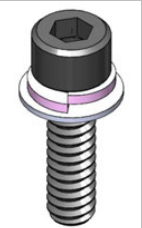
PART NUMBER EXAMPLE:

115-091-025-06 P = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

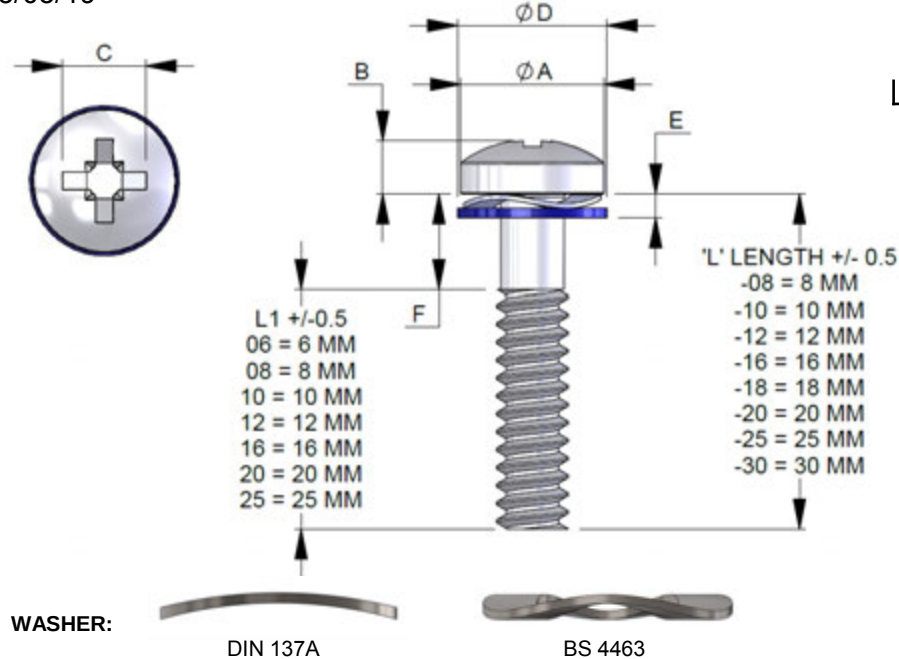
115-09X SOCKET CAP HEAD SEMS WITH SMALL PLAIN WASHER AND LOCK WASHER





METRIC SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	A/F Recess	Washer Diam	Washers Thk (2)	(1)
115-09(X)-020-(XX)	M2 X 0.4	3.8	2.0	1.5	4.5/4.2	0.8	2.3
115-09(X)-025-(XX)	M2.5 X 0.45	4.5	2.5	2.0	5.0/4.7	1.1	2.8
115-09(X)-030-(XX)	M3 X 0.5	5.5	3.0	2.5	6.0/5.7	1.5	3.8
115-09(X)-040-(XX)	M4 X 0.7	7.0	4.0	3.0	8.0/7.6	1.7	4.6
115-09(X)-050-(XX)	M5 X 0.8	8.5	5.0	4.0	9.0/8.6	2.5	5.9
115-09(X)-060-(XX)	M6 X 1.0	10.0	6.0	5.0	11.0/10.5	3.1	6.8
115-09(X)-080-(XX)	M8 X 1.25	13.0	8.0	6.0	15.0/14.5	3.6	8.4
115-09(X)-100-(XX)	M10 X 1.5	16.0	10.0	8.0	18.0/17.5	3.8	10.0
(1) Distance before full thread starts				(2) Washers in compressed state		All dimensions in MM	
Head Dimensions to ISO 4762				Rolled thread to BS 3643			

PART NUMBER CALL OUT



115-10 1 - 030 -10 06 A P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

SPRING WASHER TYPE

A = DIN 137A (CURVED)
B = BS 4463 (3 WAVES)

THREAD LENGTH (L1) IN MM

E.G. 06=6 MM

UNDERHEAD LENGTH (L) IN MM

E.G. -10=10 MM

THREAD CODE

SEE TABLE

FINISH CODE

0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES

115-10X = METRIC SERIES WITH PLAIN AND SPRING
WASHERS, INCREASED SHANK LENGTH

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

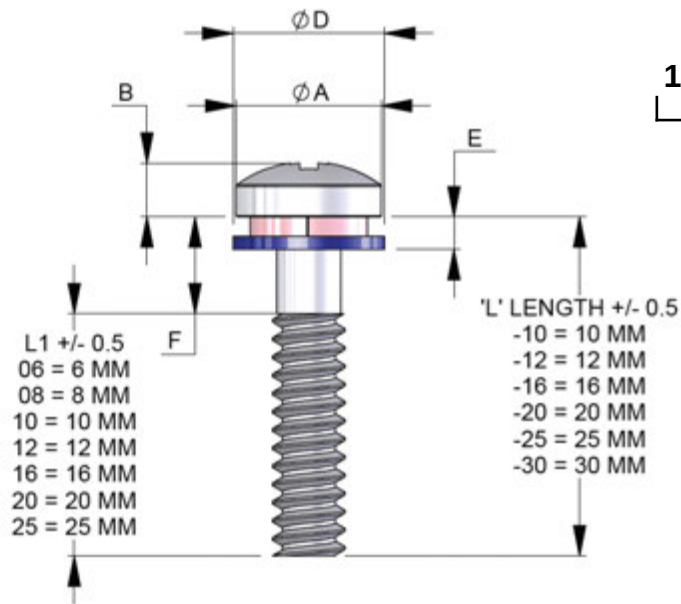
PART NUMBER EXAMPLE:

115-101-030-1006 A P = METRIC SEMS, PASSIVATED, M3,10 MM LONG, 6 MM OF THREAD,
CURVED WASHER DIN 137A AND PATCH LOCK



METRIC SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Driver Size	Washer Diam	Washers Thk (2)	(1)
115-10(X)-020-(XXXX)	M2 X 0.4	4.0	1.6	1	5.0/4.7	0.6	2
115-10(X)-025-(XXXX)	M2.5 X 0.45	5.0	2.0	1	6.5/6.2	0.8	4
115-10(X)-030-(XXXX)	M3 X 0.5	6.0	2.4	1	7.0/6.7	0.9	4
115-10(X)-040-(XXXX)	M4 X 0.7	8.0	3.1	2	9.0/8.7	1.0	4
115-10(X)-050-(XXXX)	M5 X 0.8	10.0	3.8	2	10.0/9.7	1.2	4
115-10(X)-060-(XXXX)	M6 X 1.0	12.0	4.6	3	12.5/12.1	1.2	6
115-10(X)-080-(XXXX)	M8 X 1.25	16.0	6.0	4	17.0/16.6	1.5	8
115-10(X)-100-(XXXX)	M10 X 1.5	20.0	7.5	4	21.0/20.5	1.8	8
(1) Minimum difference between 'L' and 'L1'		(2) Washers in compressed state			All dimensions in MM		
Head Dimensions to DIN 7985 TYPE Z				Rolled thread to BS 3643			





PART NUMBER CALL OUT

115-11 1 - 030 -10 06 P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

THREAD LENGTH (L1) IN MM
E.G. 06=6 MM

UNDERHEAD LENGTH (L) IN MM
E.G. -10=10 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-11X = METRIC SERIES WITH PLAIN AND LOCK
WASHERS, INCREASED SHANK LENGTH

PART NUMBER EXAMPLE:

115-111-030-1006 P = METRIC SEMS, PASSIVATED, M3,10 MM LONG, 6 MM OF THREAD, WITH
PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT



METRIC SERIES

PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Driver Size	Washer Diam	Washers Thk (2)	(1)
115-10(X)-020-(XXXX)	M2 X 0.4	4.0	1.6	1	5.0/4.7	0.8	4
115-10(X)-025-(XXXX)	M2.5 X 0.45	5.0	2.0	1	6.5/6.2	1.1	4
115-10(X)-030-(XXXX)	M3 X 0.5	6.0	2.4	1	7.0/6.7	1.5	4
115-10(X)-040-(XXXX)	M4 X 0.7	8.0	3.1	2	9.0/8.7	1.7	6
115-10(X)-050-(XXXX)	M5 X 0.8	10.0	3.8	2	10.0/9.7	2.2	6
115-10(X)-060-(XXXX)	M6 X 1.0	12.0	4.6	3	12.5/12.1	2.2	6
115-10(X)-080-(XXXX)	M8 X 1.25	16.0	6.0	4	17.0/16.6	3.0	8
115-10(X)-100-(XXXX)	M10 X 1.5	20.0	7.5	4	21.0/20.5	3.2	10

(1) Minimum difference between 'L' and 'L1'

(2) Washers in compressed state

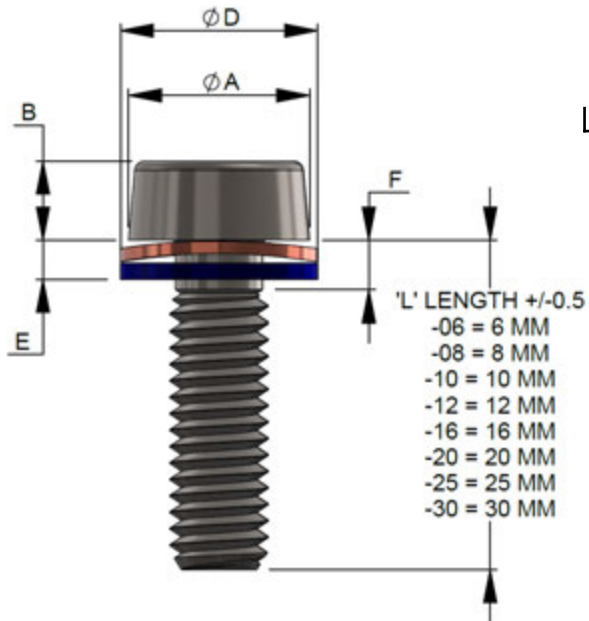
All dimensions in MM

Head Dimensions to DIN 7985 TYPE Z

Rolled thread to BS 3643

**115-11X CROSS RECESS PAN HEAD
SEMS WITH PLAIN AND LOCK
WASHERS, INCREASED SHANK LENGTH**





PART NUMBER CALL OUT

115-12 1 - 030 -10 -70 P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

CURVED WASHER MATERIAL CODE

NONE = A2 ST. STEEL AS PER NFE27620

70 = COPPER BERYLLIUM AS PER NFE27620

UNDERHEAD LENGTH (L) IN MM

E.G. -10=10 MM

THREAD CODE

SEE TABLE

FINISH CODE

0 = NATURAL

1 = PASSIVATED

2 = STAYBLACK

SEMS SERIES

115-12X = METRIC SERIES WITH SMALL PLAIN WASHER AND CURVED WASHER

PART NUMBER EXAMPLE:

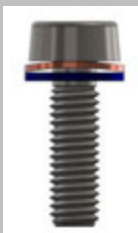
115-121-030-10 P = METRIC SEMS, PASSIVATED, M3, 10 MM LONG, ST STEEL CURVED WASHER, WITH PATCH LOCK

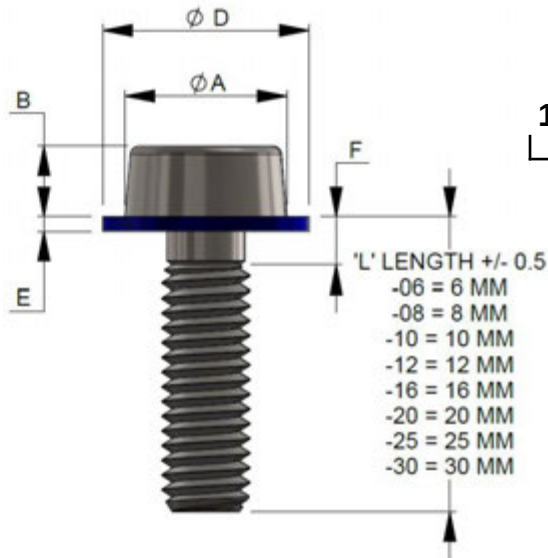
MATERIAL: 316 (A4-70) STAINLESS STEEL (EXCEPT CURVED WASHER)

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

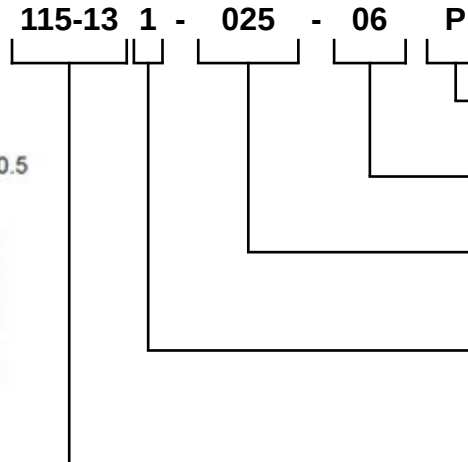


METRIC SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Socket No	Washer Diam	Washers Thk (2)	(1)
115-12(X)-020-(XX)	M2 X 0.4	3.8	1.55	6	4.5/4.2	0.6	1.8
115-12(X)-025-(XX)	M2.5 X 0.45	4.5	1.85	8	5.0/4.7	0.8	2.2
115-12(X)-030-(XX)	M3 X 0.5	5.5	2.40	10	6.0/5.7	0.9	2.5
115-12(X)-040-(XX)	M4 X 0.7	7.0	3.10	20	8.0/7.6	1.0	3.1
115-12(X)-050-(XX)	M5 X 0.8	8.5	3.65	25	9.0/8.6	1.5	3.9
115-12(X)-060-(XX)	M6 X 1.0	10.0	4.40	30	11.0/10.5	2.1	5.1
115-12(X)-080-(XX)	M8 X 1.25	13.0	5.80	45	15.0/14.5	2.4	6.3
115-12(X)-100-(XX)	M10 X 1.5	16.0	6.90	50	18.0/17.5	2.6	7.3
(1) Distance before full thread starts				(2) Washers in compressed state		All dimensions in MM	
Head Dimensions to BS EN 14580				Rolled thread to BS 3643			





PART NUMBER CALL OUT



PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-13X = METRIC SERIES WITH PLAIN WASHER

PART NUMBER EXAMPLE:

115-131-025-06 P = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

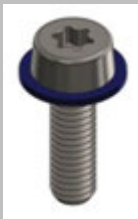
MATERIAL: 316 (A4-70) STAINLESS STEEL

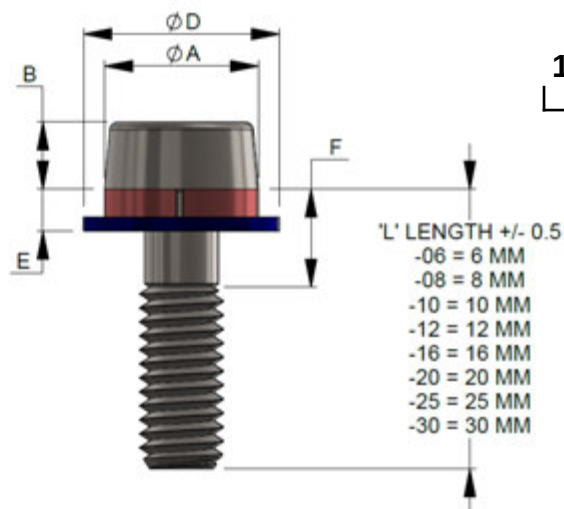
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

PART NUMBER	METRIC SERIES						
	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Socket No	Washer Diam	Washer Thk	(1)
115-13(X)-020-(XX)	M2 X 0.4	3.8	1.55	6	5.0/4.7	0.3	0.9
115-13(X)-025-(XX)	M2.5 X 0.45	4.5	1.85	8	6.5/6.2	0.5	1.2
115-13(X)-030-(XX)	M3 X 0.5	5.5	2.40	10	7.0/6.7	0.5	1.3
115-13(X)-040-(XX)	M4 X 0.7	7.0	3.10	20	9.0/8.7	0.5	1.6
115-13(X)-050-(XX)	M5 X 0.8	8.5	3.65	25	10.0/9.7	0.7	1.9
115-13(X)-060-(XX)	M6 X 1.0	10.0	4.40	30	12.5/12.1	0.7	2.2
115-13(X)-080-(XX)	M8 X 1.25	13.0	5.80	45	17.0/16.6	1.0	2.9
115-13(X)-100-(XX)	M10 X 1.5	16.0	6.90	50	21.0/20.5	1.0	3.3
(1) Distance before full thread starts				All dimensions in MM			
Head Dimensions to ISO 14580				Rolled thread to BS 3643			

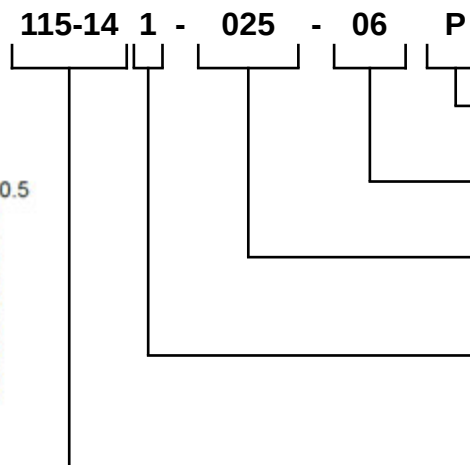


115-13X HEXALOBULAR SOCKET CHEESE HEAD SEMS WITH PLAIN WASHER





PART NUMBER CALL OUT



PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

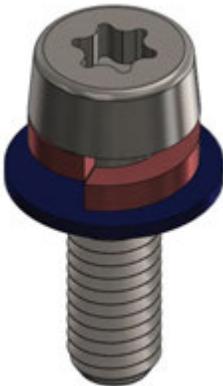
SEMS SERIES
115-14X = METRIC SERIES WITH PLAIN AND LOCK WASHERS

PART NUMBER EXAMPLE:

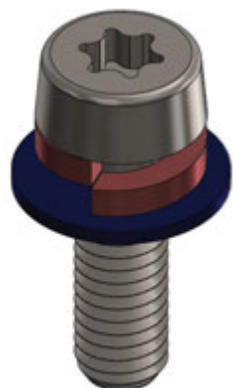
115-141-025-06 P = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

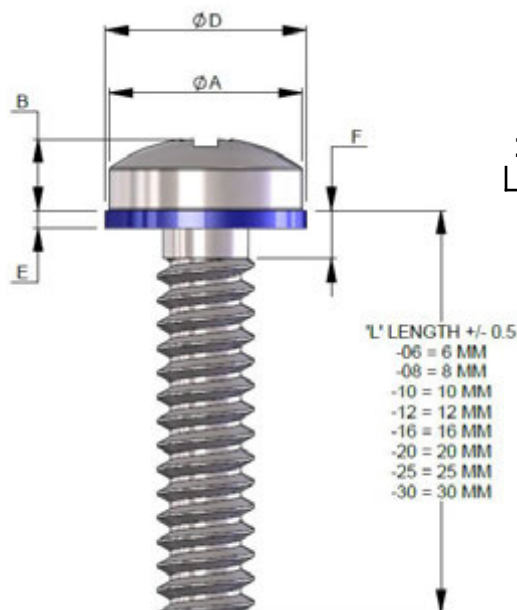
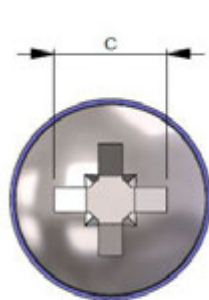


METRIC SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Socket Size	Washer Diam	Washers Thk (2)	(1)
115-14(X)-020-(XX)	M2 X 0.4	3.8	1.55	6	5.0/4.7	0.8	2.3
115-14(X)-025-(XX)	M2.5 X 0.45	4.5	1.85	8	6.5/6.2	1.1	2.8
115-14(X)-030-(XX)	M3 X 0.5	5.5	2.40	10	7.0/6.7	1.5	3.8
115-14(X)-040-(XX)	M4 X 0.7	7.0	3.10	20	9.0/8.7	1.7	4.6
115-14(X)-050-(XX)	M5 X 0.8	8.5	3.65	25	10.0/9.7	2.2	5.6
115-14(X)-060-(XX)	M6 X 1.0	10.0	4.40	30	12.5/12.1	2.2	5.9
115-14(X)-080-(XX)	M8 X 1.25	13.0	5.80	45	17.0/16.6	3.0	7.8
115-14(X)-100-(XX)	M10 X 1.5	16.0	6.90	50	21.0/20.5	3.2	9.4
(1) Distance before full thread starts		(2) Washers in compressed state			All dimensions in MM		
Head Dimensions to ISO 14580				Rolled thread to BS 3643			



115-14X HEXALOBULAR SOCKET CHEESE SEMS WITH PLAIN AND LOCK WASHERS





PART NUMBER CALL OUT

115-15 1 - 025 - 06 P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-15X = METRIC SERIES WITH PLAIN WASHER

PART NUMBER EXAMPLE:

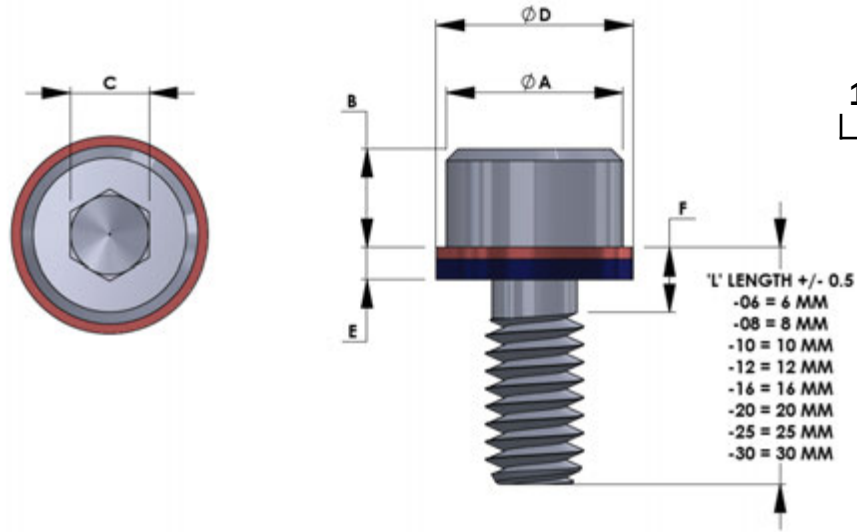
115-151-025-06 P = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

METRIC SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Driver Size	Washer Diam	Washer Thk	(1)
115-15(X)-020-(XX)	M2 X 0.4	4.0	1.6	1	5.0/4.7	0.3	0.9
115-15(X)-025-(XX)	M2.5 X 0.45	5.0	2.0	1	6.5/6.2	0.5	1.2
115-15(X)-030-(XX)	M3 X 0.5	6.0	2.4	1	7.0/6.7	0.5	1.3
115-15(X)-040-(XX)	M4 X 0.7	8.0	3.1	2	9.0/8.7	0.5	1.6
115-15(X)-050-(XX)	M5 X 0.8	10.0	3.8	2	10.0/9.7	0.7	1.9
115-15(X)-060-(XX)	M6 X 1.0	12.0	4.6	3	12.5/12.1	0.7	2.2
115-15(X)-080-(XX)	M8 X 1.25	16.0	6.0	4	17.0/16.6	1.0	2.9
115-15(X)-100-(XX)	M10 X 1.5	20.0	7.5	4	21.0/20.5	1.0	3.3
(1) Distance before full thread starts				All dimensions in MM			
Head Dimensions to DIN 7985 TYPE Z				Rolled thread to BS 3643			





PART NUMBER CALL OUT

115-17 1 - 025 - 06 P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-17X = METRIC SEMS WITH PLAIN WASHER
AND CURVED WASHER

PART NUMBER EXAMPLE:

115-171-025-06 P = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

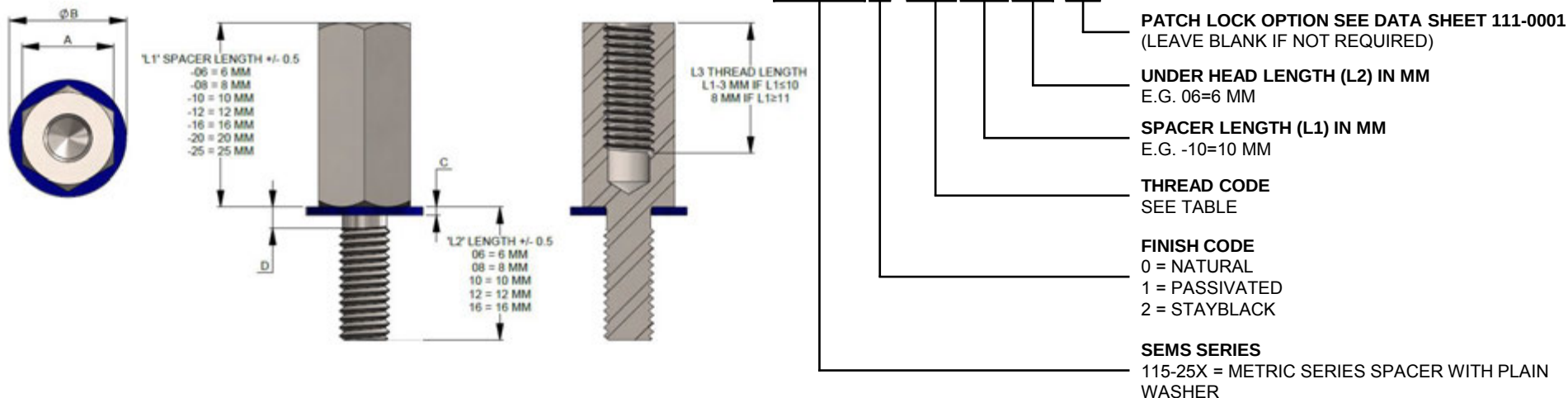
PART NUMBER	METRIC SERIES						
	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	A/F Recess	Washer Diam	Washers Thk (2)	(1)
115-17(X)-020-(XX)	M2 X 0.4	3.8	2.0	1.5	5.0/4.7	0.6	1.9
115-17(X)-025-(XX)	M2.5 X 0.45	4.5	2.5	2.0	6.5/6.2	0.8	2.2
115-17(X)-030-(XX)	M3 X 0.5	5.5	3.0	2.5	7.0/6.7	0.9	2.6
115-17(X)-040-(XX)	M4 X 0.7	7.0	4.0	3.0	9.0/8.7	1.0	3.2
115-17(X)-050-(XX)	M5 X 0.8	8.5	5.0	4.0	10.0/9.7	1.2	3.7
115-17(X)-060-(XX)	M6 X 1.0	10.0	6.0	5.0	12.5/12.1	1.2	4.4
115-17(X)-080-(XX)	M8 X 1.25	13.0	8.0	6.0	17.0/16.6	1.5	6.3
115-17(X)-100-(XX)	M10 X 1.5	16.0	10.0	8.0	21.0/20.5	1.8	7.3
(1) Distance before full thread starts		(2) Washers in compressed state			All dimensions in MM		
Head Dimensions to ISO 4762		Curved washer to DIN 137A			Rolled thread to BS 3643		

115-17X SOCKET CAP HEAD SEMS WITH PLAIN WASHER AND CURVED WASHER





PART NUMBER CALL OUT



PART NUMBER EXAMPLE:

115-251-030-1006 P = METRIC SEMS, PASSIVATED, M3 X 10 MM SPACER LENGTH, 6 MM UNDER HEAD LENGTH, WITH PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

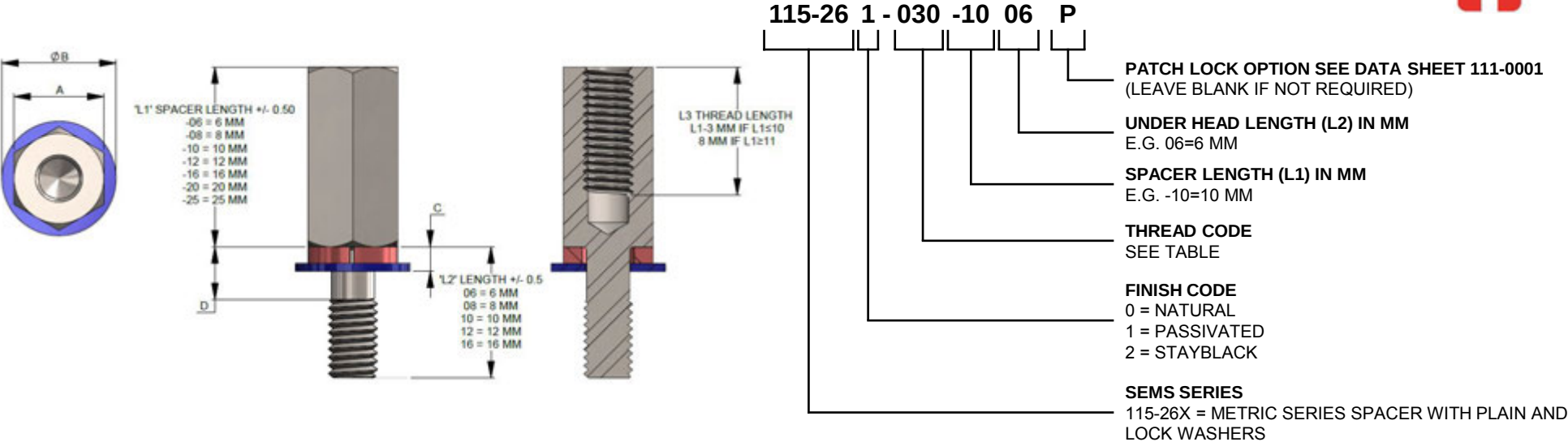
	METRIC SERIES				
	PART NUMBER	Thread	A	B	C
		Class 6g	Hex A/F	Washer Diam	Washer Thk
					(1)
	115-25(X)-025-(XXXX)	M2.5 X 0.45	5.0	6.5/6.2	0.5
	115-25(X)-030-(XXXX)	M3 X 0.5	5.5	7.0/6.7	0.5
	115-25(X)-040-(XXXX)	M4 X 0.7	7.0	9.0/8.7	0.5
	115-25(X)-050-(XXXX)	M5 X 0.8	8.0	10.0/9.7	0.7
(1) Distance before full thread starts			All dimensions in MM		
Male and female threads identical			Rolled thread to BS 3643		

**115-25X HEX SPACER
WITH PLAIN WASHER**



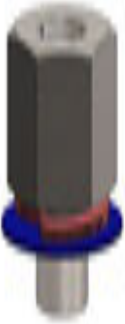


PART NUMBER CALL OUT



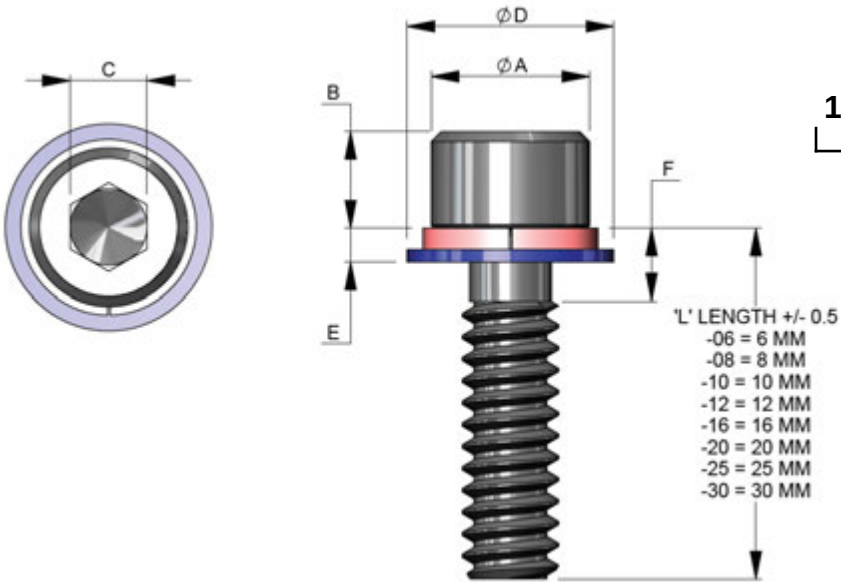
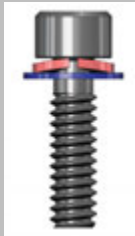
MATERIAL: 316 (A4-70) STAINLESS STEEL
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

PART NUMBER EXAMPLE:
115-261-030-1006 P = METRIC SEMS, PASSIVATED, M3 X 10 MM SPACER LENGTH, 6 MM UNDER HEAD LENGTH, WITH PATCH LOCK

	METRIC SERIES					
	PART NUMBER	Thread	A	B	C	D
		Class 6g	Hex A/F	Washer Diam	Washers Thk (2)	(1)
	115-26(X)-025-(XXXX)	M2.5 X 0.45	5.0	6.5/6.2	1.1	2.8
	115-26(X)-030-(XXXX)	M3 X 0.5	5.5	7.0/6.7	1.5	3.8
	115-26(X)-040-(XXXX)	M4 X 0.7	7.0	9.0/8.7	1.7	4.6
	115-26(X)-050-(XXXX)	M5 X 0.8	8.0	10.0/9.7	2.2	5.6
(1) Distance before full thread starts			All dimensions in MM			
Male and female threads identical		(2) Washers in compressed state		Rolled thread to BS 3643		

115-26X HEX SPACER WITH
PLAIN AND LOCK WASHERS





PART NUMBER CALL OUT

115-30 1 - 025 - 06 P

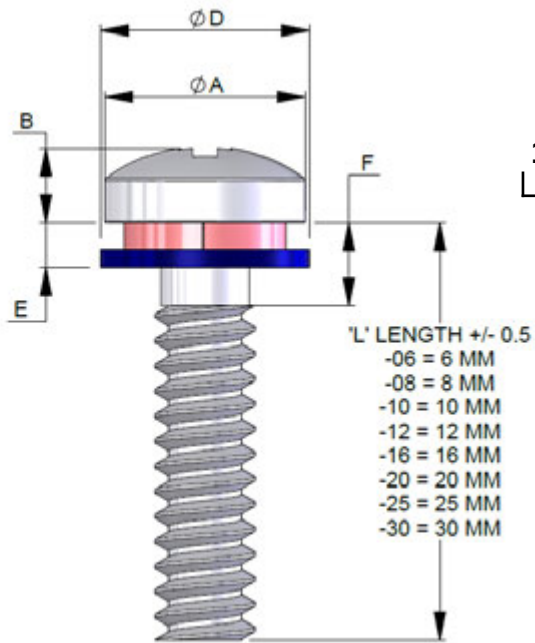
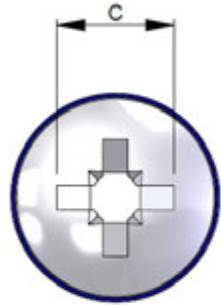
- PATCH LOCK OPTION** SEE DATA SHEET 111-0001 (LEAVE BLANK IF NOT REQUIRED)
- UNDERHEAD LENGTH (L) IN MM**
E.G. -06=6 MM
- THREAD CODE**
SEE TABLE
- FINISH CODE**
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK
- SEMS SERIES**
115-30X = METRIC SEMS WITH PLAIN WASHER AND LOCK WASHER DIN 6905

PART NUMBER EXAMPLE:
115-301-025-06 P = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

	METRIC SERIES						
	PART NUMBER	Thread	A	B	C	D	E
		Class 6g	Head Diam	Head Ht	A/F Recess	Washer Diam	Washers Thk (2)
							(1)
	115-30(X)-020-(XX)	M2 X 0.4	3.8	2.0	1.5	5.0/4.7	0.9
	115-30(X)-025-(XX)	M2.5 X 0.45	4.5	2.5	2.0	6.5/6.2	1.2
	115-30(X)-030-(XX)	M3 X 0.5	5.5	3.0	2.5	7.0/6.7	1.2
	115-30(X)-040-(XX)	M4 X 0.7	7.0	4.0	3.0	9.0/8.7	1.5
	115-30(X)-050-(XX)	M5 X 0.8	8.5	5.0	4.0	10.0/9.7	2.0
	115-30(X)-060-(XX)	M6 X 1.0	10.0	6.0	5.0	12.5/12.1	2.3
	115-30(X)-080-(XX)	M8 X 1.25	13.0	8.0	6.0	17.0/16.6	2.8
	115-30(X)-100-(XX)	M10 X 1.5	16.0	10.0	8.0	21.0/20.5	3.1
	(1) Distance before full thread starts		(2) Washers in compressed state			All dimensions in MM	
	Head Dimensions to ISO 4762		Lock washer to DIN 6905			Rolled thread to BS 3643	

**115-30X SOCKET CAP HEAD SEMS
WITH PLAIN AND LOCK WASHERS**



PART NUMBER CALL OUT

115-31 1 - 025 - 06 P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-31X = METRIC SEMS WITH PLAIN WASHER
AND LOCK WASHER DIN 6905

PART NUMBER EXAMPLE:

115-311-025-06 P = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

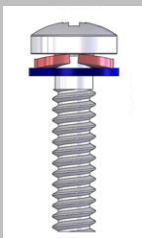
MATERIAL: 316 (A4-70) STAINLESS STEEL

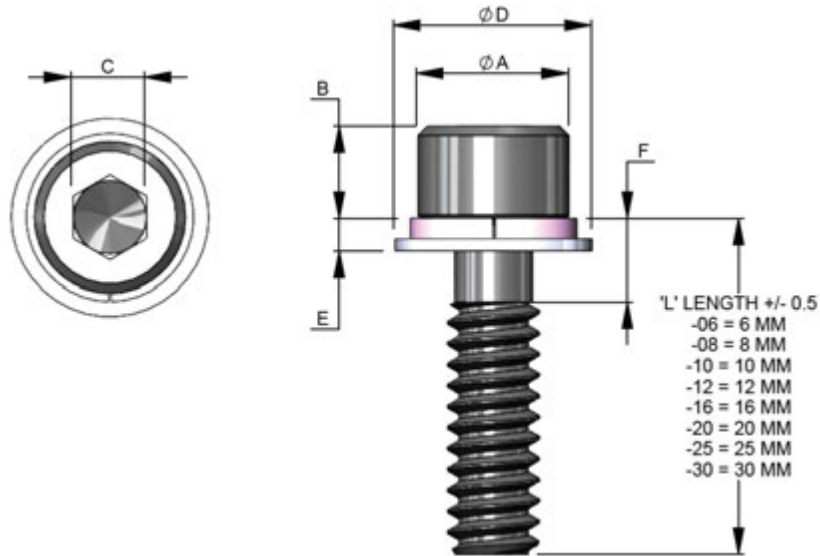
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

METRIC SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	Drive Size	Washer Diam	Washers Thk (2)	(1)
115-02(X)-020-(XX)	M2 X 0.4	4.0	1.6	1	5.0/4.7	0.9	2.0
115-02(X)-025-(XX)	M2.5 X 0.45	5.0	2	1	6.5/6.2	1.2	2.5
115-02(X)-030-(XX)	M3 X 0.5	6.0	2.4	1	7.0/6.7	1.2	2.6
115-02(X)-040-(XX)	M4 X 0.7	8.0	3.1	2	9.0/8.7	1.5	3.3
115-02(X)-050-(XX)	M5 X 0.8	10.0	3.8	2	10.0/9.7	2.0	4.1
115-02(X)-060-(XX)	M6 X 1.0	12.0	4.6	3	12.5/12.1	2.3	5.0
115-02(X)-080-(XX)	M8 X 1.25	16.0	6.0	4	17.0/16.6	2.8	6.1
115-02(X)-100-(XX)	M10 X 1.5	20.0	7.5	4	21.0/20.5	3.1	6.9
(1) Distance before full thread starts		(2) Washers in compressed state			All dimensions in MM		
Head Dimensions to DIN 7985 TYPE Z		Lock washer to DIN 6905			Rolled thread to BS3643		



115-31X CROSS RECESS PAN HEAD SEMS WITH PLAIN AND LOCK WASHERS





PART NUMBER CALL OUT

115-40 1 - 025 - 06 P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

UNDERHEAD LENGTH (L) IN MM
E.G. -06=6 MM

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
115-40X = METRIC SERIES WITH PLAIN AND LOCK
WASHERS

PART NUMBER EXAMPLE:

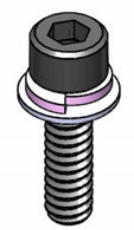
115-401-025-06 P = METRIC SEMS, PASSIVATED, M2.5, 6 MM LONG, WITH PATCH LOCK

MATERIAL: A286 STAINLESS STEEL SCREW, 316 STAINLESS STEEL WASHERS

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT



METRIC SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 6g	Head Diam	Head Ht	A/F Recess	Washer Diam	Washers Thk (2)	(1)
115-40(X)-020-(XX)	M2 X 0.4	3.8	2.0	1.5	5.0/4.7	0.8	2.3
115-40(X)-025-(XX)	M2.5 X 0.45	4.5	2.5	2.0	6.5/6.2	1.1	2.8
115-40(X)-030-(XX)	M3 X 0.5	5.5	3.0	2.5	7.0/6.7	1.5	3.8
115-40(X)-040-(XX)	M4 X 0.7	7.0	4.0	3.0	9.0/8.7	1.7	4.6
115-40(X)-050-(XX)	M5 X 0.8	8.5	5.0	4.0	10.0/9.7	2.2	5.6
115-40(X)-060-(XX)	M6 X 1.0	10.0	6.0	5.0	12.5/12.1	2.2	5.9
115-40(X)-080-(XX)	M8 X 1.25	13.0	8.0	6.0	17.0/16.6	3.0	7.8
115-40(X)-100-(XX)	M10 X 1.5	16.0	10.0	8.0	21.0/20.5	3.2	9.4
(1) Distance before full thread starts		(2) Washers in compressed state			All dimensions in MM		
Head Dimensions to ISO 4762				Rolled thread to BS 3643			





PART NUMBER CALL OUT

116-01 1 - 0256 - 06 P

- PATCH LOCK OPTION** SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)
- UNDERHEAD LENGTH (L) IN 1/16th**
E.G. -06=0.375"
- THREAD CODE**
SEE TABLE
- FINISH CODE**
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK
- SEMS SERIES**
116-01X = INCH SERIES WITH PLAIN WASHER

PART NUMBER EXAMPLE:
116-011-0256-06 P = INCH SEMS, PASSIVATED, 2-56 UNC, 0.375" LONG, WITH PATCH LOCK

MATERIAL: SCREW 316 (A4-70) S. STEEL, WASHER 300 SERIES S. STEEL
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

INCH SERIES

PART NUMBER	Thread	A	B	C	D	E	F
	Class 2A	Head Diam	Head Ht	Socket Size	Washer Diam	Washer Thk	(1)
116-01(X)-0256-(XX)	2-56 UNC	0.140	0.086	1/16	0.185/0.180	0.020	0.047
116-01(X)-0440-(XX)	4-40 UNC	0.183	0.112	5/64	0.244/0.236	0.018	0.056
116-01(X)-0632-(XX)	6-32 UNC	0.226	0.138	3/32	0.295/0.290	0.018	0.065
116-01(X)-0832-(XX)	8-32 UNC	0.270	0.164	1/8	0.341/0.336	0.028	0.075
116-01(X)-1032-(XX)	10-32 UNF	0.312	0.190	5/32	0.391/0.386	0.028	0.075
116-01(X)-0428-(XX)	1/4-28 UNF	0.375	0.250	3/16	0.562/0.557	0.036	0.090

(1) Distance before full thread starts

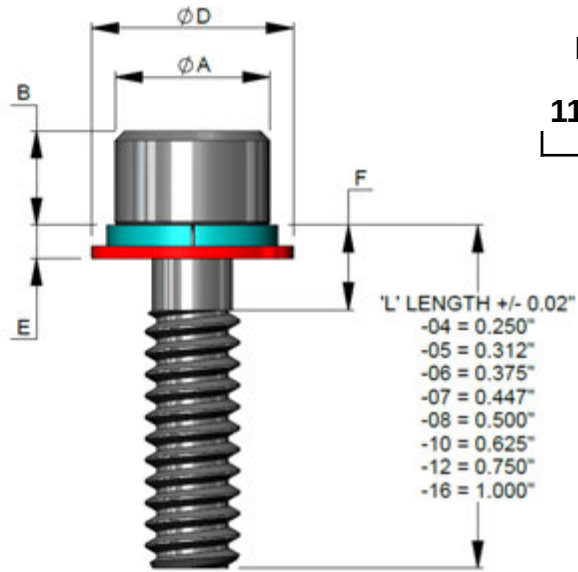
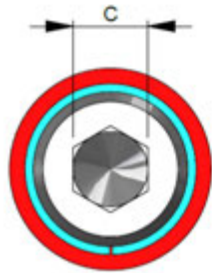
All dimensions in Inches

Head Dimensions to BS 2470

Rolled thread to BS 1580



**116-01X SOCKET CAP HEAD SEMS
WITH PLAIN WASHER**



PART NUMBER CALL OUT

116-02 1 - 0256 - 06 P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

UNDERHEAD LENGTH (L) IN 1/16th
E.G. -06=0.375"

THREAD CODE
SEE TABLE

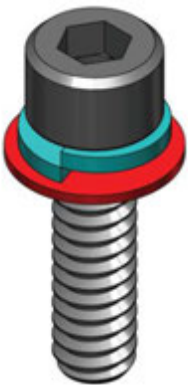
FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
116-02X = INCH SERIES WITH PLAIN AND LOCK WASHERS

PART NUMBER EXAMPLE:

116-021-0256-06 P = INCH SEMS, PASSIVATED, 2-56 UNC, 0.375" LONG, WITH PATCH LOCK

MATERIAL: SCREW 316 (A4-70) S. STEEL, WASHERS 300 SERIES S. STEEL
FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT



INCH SERIES

PART NUMBER	Thread	A	B	C	D	E	F
	Class 2A	Head Diam	Head Ht	Socket Size	Washer Diam	Washers Thk (2)	(1)
116-02(X)-0256-(XX)	2-56 UNC	0.140	0.086	1/16	0.185/0.180	0.040	0.087
116-02(X)-0440-(XX)	4-40 UNC	0.183	0.112	5/64	0.244/0.236	0.043	0.106
116-02(X)-0632-(XX)	6-32 UNC	0.226	0.138	3/32	0.295/0.290	0.049	0.127
116-02(X)-0832-(XX)	8-32 UNC	0.270	0.164	1/8	0.341/0.336	0.068	0.155
116-02(X)-1032-(XX)	10-32 UNF	0.312	0.190	5/32	0.391/0.386	0.075	0.169
116-02(X)-0428-(XX)	1/4-28 UNF	0.375	0.250	3/16	0.562/0.557	0.098	0.214

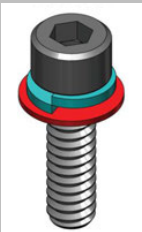
(1) Distance before full thread starts

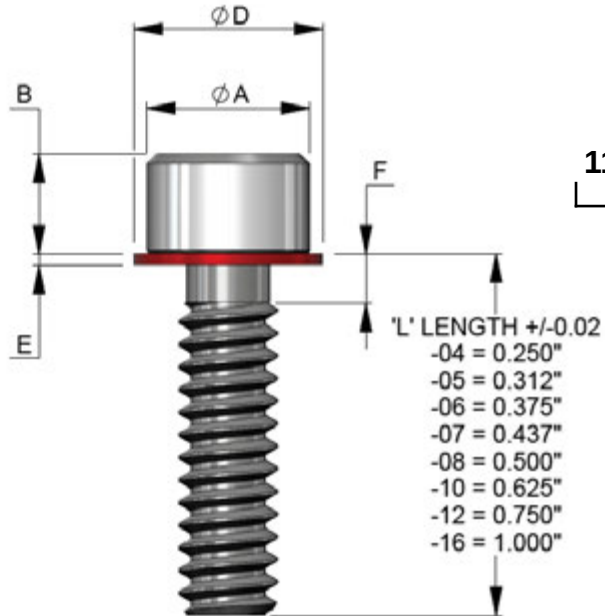
(2) Washers in compressed state

All dimensions in Inches

Head Dimensions to BS 2470

Rolled thread to BS 1580





PART NUMBER CALL OUT

116-03 1 - 0256 - 06 P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

UNDERHEAD LENGTH (L) IN 1/16th
E.G. -06=0.375"

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
116-03X = INCH SERIES WITH SMALL PLAIN WASHER

PART NUMBER EXAMPLE:

116-031-0256-06 P = INCH SEMS, PASSIVATED, 2-56 UNC, 0.375" LONG, WITH PATCH LOCK

MATERIAL: 316 (A4-70) STAINLESS STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT



INCH SERIES

PART NUMBER	Thread	A	B	C	D	E	F
	Class 2A	Head Diam	Head Ht	Socket Size	Washer Diam	Washer Thk	(1)
116-03(X)-0256-(XX)	2-56 UNC	0.140	0.086	1/16	0.164/0.144	0.016	0.043
116-03(X)-0440-(XX)	4-40 UNC	0.183	0.112	5/64	0.224/0.204	0.020	0.058
116-03(X)-0632-(XX)	6-32 UNC	0.226	0.138	3/32	0.282/0.262	0.032	0.079
116-03(X)-0832-(XX)	8-32 UNC	0.270	0.164	1/8	0.319/0.299	0.032	0.079
116-03(X)-1032-(XX)	10-32 UNF	0.312	0.190	5/32	0.369/0.349	0.063	0.110
116-03(X)-0428-(XX)	1/4-28 UNF	0.375	0.250	3/16	0.483/0.463	0.063	0.117

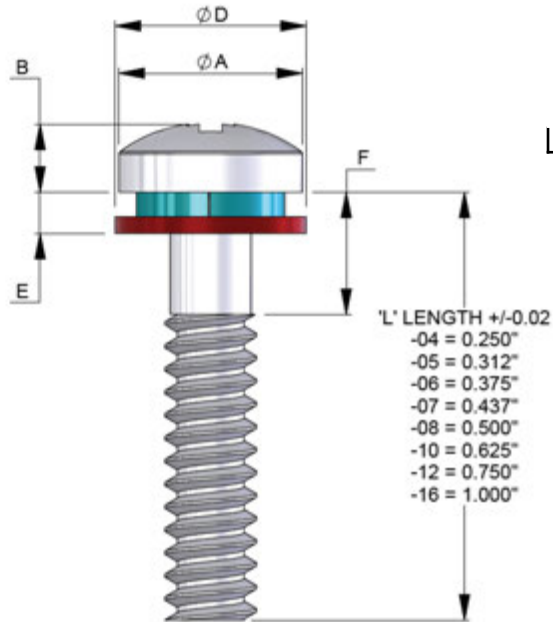
(1) Distance before full thread starts

All dimensions in Inches

Head Dimensions to BS 2470

Rolled thread to BS 1580





PART NUMBER CALL OUT

116-08 1 - 1032 - 12 P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

UNDERHEAD LENGTH (L) IN 1/16TH
E.G. -12=0.750"

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

SEMS SERIES
116-08X = INCH SERIES WITH PLAIN AND LOCK WASHERS

PART NUMBER EXAMPLE:

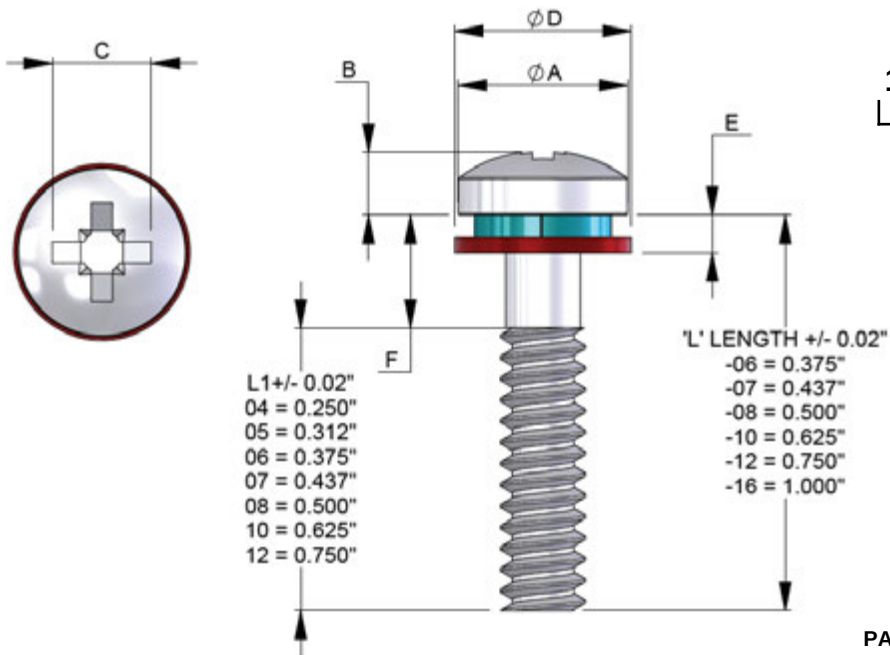
116-081-1032-12 P = INCH SEMS, PASSIVATED, 10-32 UNF, 0.750" LONG, WITH PATCH LOCK

MATERIAL: SCREW 316 (A4-70) S. STEEL, WASHERS 300 SERIES S. STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT

INCH SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 2A	Head Diam	Head Ht	Driver Size	Washer Diam	Washers Thk (2)	(1)
116-08(X)-0256-(XX)	2-56 UNC	0.167	0.062	1	0.185/0.180	0.040	0.087
116-08(X)-0440-(XX)	4-40 UNC	0.219	0.080	1	0.244/0.236	0.043	0.106
116-08(X)-0632-(XX)	6-32 UNC	0.270	0.097	2	0.295/0.290	0.049	0.127
116-08(X)-0832-(XX)	8-32 UNC	0.322	0.115	2	0.341/ 0.336	0.068	0.155
116-08(X)-1032-(XX)	10-32 UNF	0.373	0.133	2	0.391/0.386	0.075	0.169
116-08(X)-0428-(XX)	1/4-28 UNF	0.492	0.175	3	0.562/0.557	0.098	0.214
(1) Distance before full thread starts			(2) Washers in compressed state			All dimensions in Inches	
Head Dimensions to BS 1981 TYPE Z					Rolled thread to BS 1580		





PART NUMBER CALL OUT

116-09 1 - 0440 -10 06 P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)THREAD LENGTH (L1) IN 1/16 INCH
E.G. 06=0.375"UNDERHEAD LENGTH (L) IN 1/16 INCH
E.G. -10=0.625"THREAD CODE
SEE TABLEFINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACKSEMS SERIES
116-09X = INCH SERIES WITH PLAIN AND LOCK
WASHERS

PART NUMBER EXAMPLE:

116-091-0440-1006 P = INCH SEMS, PASSIVATED, 4-40 UNC, 0.625" LONG, 0.375" OF THREAD, WITH
PATCH LOCK

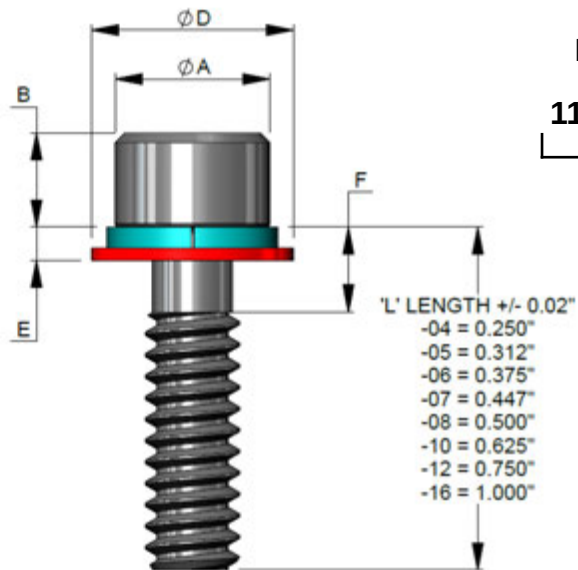
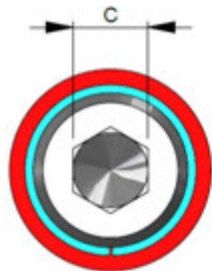
MATERIAL: SCREW 316 (A4-70) S. STEEL, WASHERS 300 SERIES S. STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT



INCH SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 2A	Head Diam	Head Ht	Driver Size	Washer Diam	Washers Thk (2)	(1)
116-09(X)-0256-(XXXX)	2-56 UNC	0.167	0.062	1	0.185/0.180	0.040	0.125
116-09(X)-0440-(XXXX)	4-40 UNC	0.219	0.080	1	0.244/0.236	0.043	0.125
116-09(X)-0632-(XXXX)	6-32 UNC	0.270	0.097	2	0.295/0.290	0.049	0.125
116-09(X)-0832-(XXXX)	8-32 UNC	0.322	0.115	2	0.341/ 0.336	0.068	0.160
116-09(X)-1032-(XXXX)	10-32 UNF	0.373	0.133	2	0.391/0.386	0.075	0.170
116-09(X)-0428-(XXXX)	1/4-28 UNF	0.492	0.175	3	0.562/0.557	0.098	0.215
(1) Minimum difference between 'L' and 'L1'				(2) Washers in compressed state		All dimensions in Inches	
Head Dimensions to BS 1981 TYPE Z				Rolled thread to BS 1580			





PART NUMBER CALL OUT

116-40 1 - 0256 - 06 P

PATCH LOCK OPTION SEE DATA SHEET 111-0001
(LEAVE BLANK IF NOT REQUIRED)

UNDERHEAD LENGTH (L) IN 1/16th
E.G. -06=0.375"

THREAD CODE
SEE TABLE

FINISH CODE
0 = NATURAL
1 = PASSIVATED
2 = STAYBLACK

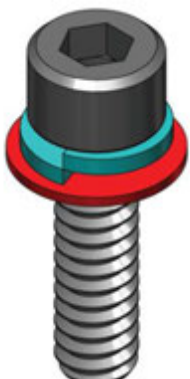
SEMS SERIES
116-40X = INCH SERIES WITH PLAIN AND LOCK
WASHERS

PART NUMBER EXAMPLE:

116-401-0256-06 P = INCH SEMS, PASSIVATED, 2-56 UNC, 0.375" LONG, WITH PATCH LOCK

MATERIAL: SCREW A286 S. STEEL, WASHERS 300 SERIES S. STEEL

FINISH: ALL FINISHES ARE RoHS AND REACH COMPLIANT



INCH SERIES							
PART NUMBER	Thread	A	B	C	D	E	F
	Class 2A	Head Diam	Head Ht	Socket Size	Washer Diam	Washers Thk (2)	(1)
116-40(X)-0256-(XX)	2-56 UNC	0.140	0.086	1/16	0.185/0.180	0.040	0.087
116-40(X)-0440-(XX)	4-40 UNC	0.183	0.112	5/64	0.244/0.236	0.043	0.106
116-40(X)-0632-(XX)	6-32 UNC	0.226	0.138	3/32	0.295/0.290	0.049	0.127
116-40(X)-0832-(XX)	8-32 UNC	0.270	0.164	1/8	0.341/0.336	0.068	0.155
116-40(X)-1032-(XX)	10-32 UNF	0.312	0.190	5/32	0.391/0.386	0.075	0.169
116-40(X)-0428-(XX)	1/4-28 UNF	0.375	0.250	3/16	0.562/0.557	0.098	0.214
(1) Distance before full thread starts				(2) Washers in compressed state		All dimensions in Inches	
Head Dimensions to BS 2470				Rolled thread to BS 1580			

