

METRIC

TANGLESS COILTHREAD SPECIFICATIONS (METRIC)

ISSUE LEVEL	10	
ISSUE DATE	29-Jun-2015	
COMPILED BY	N WILSON	<i>N. Wilson</i>
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RECORD OF CHANGES

PART NO. / DESC.	CHANGE	ISS.	DATE	AUTH.
All part no's	Max. C dimension removed	1	May-00	GPC
M10 & M12	Specifications added.	2	Feb-01	GPC
All part no's	Specifications added for 2.5D & 3.0D, Pitch tols. added	3	Jan-02	GPC
All part no's	A & C dimensions amended to reflect internal working tolerance. Min C reduction added.	4	Sep-06	GPC
	Notch dimensions removed			
M12	Min OD changed to 14.30 - (Was 14.50)	5	Apr-07	GPC
All part no's	No.s of coils and locking coil position now to 3 decimal places instead of 2 decimal places as per NAS NA0276	6	Jan-10	NPW
M2.5 1.5D	No.s coils changed from 5.63 to 5.75 to conform to NAS NA0276 inc lock coil position 2.81 now 2.875	6	Jan-10	NPW
M12 1.5D	No.s coils changed from 8.13 to 8.25 to conform to NAS NA0276 inc lock coil position 4.06 now 4.125	6	Jan-10	NPW
M2.5 2.0D	No.s coils changed from 8.00 to 8.125 to conform to NAS NA0276 inc lock coil position 4.00 to 4.063	6	Jan-10	NPW
M12 2.0D	No.s coils changed from 11.35 to 11.500 to conform to NAS NA0276 inc lock coil position 5.68 to 5.75	6	Jan-10	NPW
All part no's	Specifications for 2.5D and 3.0D number of coils on Free running and Locking changed to conform with NAS NA0276. Also number of locking coil position on 2.5D and 3.0D changed to conform to NAS NA0276	6	Jan-10	NPW
M5	O/D changed from 6.20 to 6.25 to conform with NAS NA0276	6	Jan-10	NPW
All part no's	Locking torque now confirms to MA1565	6	Jan-10	NPW
M5	O/D changed from 6.25 - 6.30 to 6.25 - 6.35	7	Nov-10	IM
M5	O/D changed from 6.25 minimum to 6.20 minimum	8	06-May-11	IM
M5	O/D changed from 6.25 minimum to 6.20 minimum	9	16-Feb-12	NPW
	now typed in document			
	now typed in document			
M2.5X0.45	O/D changed from 3.20 - 3.26 to 3.19 - 3.23	10	29-Jun-15	NPW
M3X0.5	O/D changed from 3.80 - 3.84 to 3.78 - 3.82	10	29-Jun-15	NPW
M5X0.8	O/D changed from 6.20 - 6.35 to 6.20 - 6.28	10	29-Jun-15	NPW
M6X1	O/D changed from 7.40 - 7.55 to 7.40 - 7.50	10	29-Jun-15	NPW
M8X1.25	O/D changed from 9.80 - 9.85 to 9.78 - 9.85	10	29-Jun-15	NPW
M10X1.5	O/D changed from 11.95 - 12.10 to 11.95 - 12.04	10	29-Jun-15	NPW
M12X1.75	O/D changed from 14.30 - 14.50 TO 14.30 - 14.45	10	29-Jun-15	NPW

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1.0 DIA. FREE RUNNING

PART NO.	THREAD SIZE	NOMINAL LENGTH	A		B	C	MIN C	PITCH	
			Min	Max	± 0.25	Min		Min	Max
2TNM2.5 X 45C -2.5	M2.5 - 0.45	2.5	3.19	3.23	3.375	3.03	0.03	0.42	0.52
2TNM3 X .5C - 3	M3 - 0.5	3	3.78	3.82	3.750	3.59	0.03	0.47	0.55
2TNM4 X .7C - 4	M4 - 0.7	4	5.05	5.12	3.625	4.82	0.03	0.66	0.76
2TNM5 X .8C - 5	M5 - 0.8	5	6.20	6.28	4.125	5.93	0.03	0.76	0.86
2TNM-6 X 1C - 6	M6 - 1.0	6	7.40	7.50	4.000	7.25	0.03	0.96	1.07
2TNM8 X 1.25C - 8	M8 - 1.25	8	9.78	9.85	4.500	9.60	0.03	1.21	1.35
2TNM10 X 1.5C - 10	M10 - 1.5	10	11.95	12.04	4.875	11.71	0.03	1.45	1.60
2TNM12 X 1.75C-12	M12 - 1.75	12	14.30	14.45	5.000	13.99	0.03	1.70	1.87

1.5 DIA. FREE RUNNING

PART NO.	THREAD SIZE	NOMINAL LENGTH	A		B	C	MIN C	PITCH	
			Min	Max	± 0.25	Min		Min	Max
2TNM2.5 X 45C -3.8	M2.5 - 0.45	3.75	3.19	3.23	5.750	3.03	0.03	0.42	0.52
2TNM3 X .5C - 4.5	M3 - 0.5	4.5	3.78	3.82	6.375	3.59	0.03	0.47	0.55
2TNM4 X .7C - 6	M4 - 0.7	6	5.05	5.12	6.125	4.82	0.03	0.66	0.76
2TNM5 X .8C - 7.5	M5 - 0.8	7.5	6.20	6.28	6.875	5.93	0.03	0.76	0.86
2TNM-6 X 1C - 9	M6 - 1.0	9	7.40	7.50	6.750	7.25	0.03	0.96	1.07
2TNM8 X 1.25C - 12	M8 - 1.25	12	9.78	9.85	7.375	9.60	0.03	1.21	1.35
2TNM10 X 1.5C - 15	M10 - 1.5	15	11.95	12.04	8.000	11.71	0.03	1.45	1.60
2TNM12 X 1.75C-18	M12 - 1.75	18	14.30	14.45	8.250	13.99	0.03	1.70	1.87

2.0 DIA. FREE RUNNING

PART NO.	THREAD SIZE	NOMINAL LENGTH	A		B	C	MIN C	PITCH	
			Min	Max	± 0.25	Min		Min	Max
2TNM2.5 X 45C -5	M2.5 - 0.45	5	3.19	3.23	8.125	3.03	0.03	0.42	0.52
2TNM3 X .5C - 6	M3 - 0.5	6	3.78	3.82	8.875	3.59	0.03	0.47	0.55
2TNM4 X .7C - 8	M4 - 0.7	8	5.05	5.12	8.625	4.82	0.03	0.66	0.76
2TNM5 X .8C - 10	M5 - 0.8	10	6.20	6.28	9.625	5.93	0.03	0.76	0.86
2TNM-6 X 1C - 12	M6 - 1.0	12	7.40	7.50	9.500	7.25	0.03	0.96	1.07
2TNM8 X 1.25C - 16	M8 - 1.25	16	9.78	9.85	10.250	9.60	0.03	1.21	1.35
2TNM10 X 1.5C - 20	M10 - 1.5	20	11.95	12.04	11.125	11.71	0.03	1.45	1.60
2TNM12 X 1.75C-24	M12 - 1.75	24	14.30	14.45	11.500	13.99	0.03	1.70	1.87

2.5 DIA. FREE RUNNING

PART NO.	THREAD SIZE	NOMINAL LENGTH	A		B	C	MIN C	PITCH	
			Min	Max	± 0.25	Min		Min	Max
2TNM2.5 X 45C - 6.25	M2.5 - 0.45	6.25	3.19	3.23	10.500	3.03	0.03	0.42	0.52
2TNM3 X .5C - 7.5	M3 - 0.5	7.5	3.78	3.82	11.375	3.59	0.03	0.47	0.55
2TNM4 X .7C - 10	M4 - 0.7	10	5.05	5.12	11.125	4.82	0.03	0.66	0.76
2TNM5 X .8C - 12.5	M5 - 0.8	12.5	6.20	6.28	12.375	5.93	0.03	0.76	0.86
2TNM-6 X 1C - 15	M6 - 1.0	15	7.40	7.50	12.125	7.25	0.03	0.96	1.07
2TNM8 X 1.25C - 20	M8 - 1.25	20	9.78	9.85	13.250	9.60	0.03	1.21	1.35
2TNM10 X 1.5C - 25	M10 - 1.5	25	11.95	12.04	14.250	11.71	0.03	1.45	1.60
2TNM12 X 1.75C - 30	M12 - 1.75	30	14.30	14.45	14.625	13.99	0.03	1.70	1.87

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3.0 DIA. FREE RUNNING

PART NO.	THREAD SIZE	NOMINAL LENGTH	A		B	C	MIN C	PITCH	
			Min	Max	± 0.25	Min		Min	Max
2TNM2.5 X 45C - 7.5	M2.5 - 0.45	7.5	3.19	3.23	12.750	3.03	0.03	0.42	0.52
2TNM3 X .5C - 9	M3 - 0.5	9	3.78	3.82	13.875	3.59	0.03	0.47	0.55
2TNM4 X .7C - 12	M4 - 0.7	12	5.05	5.12	13.625	4.82	0.03	0.66	0.76
2TNM5 X .8C - 15	M5 - 0.8	15	6.20	6.28	15.125	5.93	0.03	0.76	0.86
2TNM6 X 1C - 18	M6 - 1.0	18	7.40	7.50	14.875	7.25	0.03	0.96	1.07
2TNM8 X 1.25C - 24	M8 - 1.25	24	9.78	9.85	16.125	9.60	0.03	1.21	1.35
2TNM10 X 1.5C - 30	M10 - 1.5	30	11.95	12.04	17.375	11.71	0.03	1.45	1.60
2TNM12 X 1.75C - 36	M12 - 1.75	36	14.30	14.45	17.875	13.99	0.03	1.70	1.87

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1.0 DIA. LOCKING

PART NO.	THREAD SIZE	NOMINAL LENGTH	A		B	C	MIN C	PITCH	
			Min	Max	± 0.25	Min		Min	Max
2TLM2.5 X 45C -2.5	M2.5 - 0.45	2.5	3.19	3.23	3.375	3.03	0.03	0.42	0.52
2TLM3 X .5C - 3	M3 - 0.5	3	3.78	3.82	3.750	3.59	0.03	0.47	0.55
2TLM4 X .7C - 4	M4 - 0.7	4	5.05	5.12	3.625	4.82	0.03	0.66	0.76
2TLM5 X .8C - 5	M5 - 0.8	5	6.20	6.28	4.125	5.93	0.03	0.76	0.86
2TLM-6 X 1C - 6	M6 - 1.0	6	7.40	7.50	4.000	7.25	0.03	0.96	1.07
2TLM8 X 1.25C - 8	M8 - 1.25	8	9.78	9.85	4.500	9.60	0.03	1.21	1.35
2TLM10 X 1.5C - 10	M10 - 1.5	10	11.95	12.04	4.875	11.71	0.03	1.45	1.60
2TLM12 X 1.75C-12	M12 - 1.75	12	14.30	14.45	5.000	13.99	0.03	1.70	1.87

PART NO.	THREAD SIZE	K		L	M
		Min	Max	Max	± 1
2TLM2.5 X 45C -2.5	M2.5 - 0.45	4	5	2	1.688
2TLM3 X .5C - 3	M3 - 0.5	4	5	2	1.875
2TLM4 X .7C - 4	M4 - 0.7	4	5	2	1.813
2TLM5 X .8C - 5	M5 - 0.8	4	5	2	2.063
2TLM-6 X 1C - 6	M6 - 1.0	4	5	2	2.000
2TLM8 X 1.25C - 8	M8 - 1.25	5	6	2	2.250
2TLM10 X 1.5C-10	M10 - 1.5	5	6	2	2.438
2TLM12 X 1.75C-12	M12 - 1.75	5	6	2	2.500

1.5 DIA. LOCKING

PART NO.	THREAD SIZE	NOMINAL LENGTH	A		B	C	MIN C	PITCH	
			Min	Max	± 0.25	Min		Min	Max
2TLM2.5 X 45C -3.8	M2.5 - 0.45	3.75	3.19	3.23	5.750	3.03	0.03	0.42	0.52
2TLM3 X .5C - 4.5	M3 - 0.5	4.5	3.78	3.82	6.375	3.59	0.03	0.47	0.55
2TLM4 X .7C - 6	M4 - 0.7	6	5.05	5.12	6.125	4.82	0.03	0.66	0.76
2TLM5 X .8C - 7.5	M5 - 0.8	7.5	6.20	6.28	6.875	5.93	0.03	0.76	0.86
2TLM-6 X 1C - 9	M6 - 1.0	9	7.40	7.50	6.750	7.25	0.03	0.96	1.07
2TLM8 X 1.25C - 12	M8 - 1.25	12	9.78	9.85	7.375	9.60	0.03	1.21	1.35
2TLM10 X 1.5C - 15	M10 - 1.5	15	11.95	12.04	8.000	11.71	0.03	1.45	1.60
2TLM12 X 1.75C-18	M12 - 1.75	18	14.30	14.45	8.250	13.99	0.03	1.70	1.87

PART NO.	THREAD SIZE	K		L	M
		Min	Max	Max	± 1
2TLM2.5 X 45C -3.8	M2.5 - 0.45	4	5	2	2.875
2TLM3 X .5C - 4.5	M3 - 0.5	4	5	2	3.188
2TLM4 X .7C - 6	M4 - 0.7	4	5	2	3.063
2TLM5 X .8C - 7.5	M5 - 0.8	4	5	2	3.438
2TLM-6 X 1C - 9	M6 - 1.0	4	5	2	3.375
2TLM8 X 1.25C - 12	M8 - 1.25	5	6	2	3.688
2TLM10 X 1.5C - 15	M10 - 1.5	5	6	2	4.000
2TLM12 X 1.75C - 18	M12 - 1.75	5	6	2	4.125

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2.0 DIA. LOCKING

PART NO.	THREAD SIZE	NOMINAL LENGTH	A		B	C	MIN C	PITCH	
			Min	Max	± 0.25	Min		Min	Max
2TLM2.5 X 45C -5	M2.5 - 0.45	5	3.19	3.23	8.125	3.03	0.03	0.42	0.52
2TLM3 X .5C - 6	M3 - 0.5	6	3.78	3.82	8.875	3.59	0.03	0.47	0.55
2TLM4 X .7C - 8	M4 - 0.7	8	5.05	5.12	8.625	4.82	0.03	0.66	0.76
2TLM5 X .8C - 10	M5 - 0.8	10	6.20	6.28	9.625	5.93	0.03	0.76	0.86
2TLM-6 X 1C - 12	M6 - 1.0	12	7.40	7.50	9.500	7.25	0.03	0.96	1.07
2TLM8 X 1.25C - 16	M8 - 1.25	16	9.78	9.85	10.250	9.60	0.03	1.21	1.35
2TLM10 X 1.5C - 20	M10 - 1.5	20	11.95	12.04	11.125	11.71	0.03	1.45	1.60
2TLM12 X 1.75C-24	M12 - 1.75	24	14.30	14.45	11.500	13.99	0.03	1.70	1.87

PART NO.	THREAD SIZE	K		L	M
		Min	Max	Max	± 1
2TLM2.5 X 45C -5	M2.5 - 0.45	4	5	2	4.063
2TLM3 X .5C - 6	M3 - 0.5	4	5	2	4.438
2TLM4 X .7C - 8	M4 - 0.7	4	5	2	4.313
2TLM5 X .8C - 10	M5 - 0.8	4	5	2	4.813
2TLM-6 X 1C - 12	M6 - 1.0	4	5	2	4.750
2TLM8 X 1.25C - 16	M8 - 1.25	5	6	2	5.125
2TLM10 X 1.5C - 20	M10 - 1.5	5	6	2	5.563
2TLM12 X 1.75C-24	M12 - 1.75	5	6	2	5.750

2.5 DIA. LOCKING

PART NO.	THREAD SIZE	NOMINAL LENGTH	A		B	C	MIN C	PITCH	
			Min	Max	± 0.25	Min		Min	Max
2TLM2.5 X 45C - 6.25	M2.5 - 0.45	6.25	3.19	3.23	10.500	3.03	0.03	0.42	0.52
2TLM3 X .5C - 7.5	M3 - 0.5	7.5	3.78	3.82	11.375	3.59	0.03	0.47	0.55
2TLM4 X .7C - 10	M4 - 0.7	10	5.05	5.12	11.125	4.82	0.03	0.66	0.76
2TLM5 X .8C - 12.5	M5 - 0.8	12.5	6.20	6.28	12.375	5.93	0.03	0.76	0.86
2TLM-6 X 1C - 15	M6 - 1.0	15	7.40	7.50	12.125	7.25	0.03	0.96	1.07
2TLM8 X 1.25C - 20	M8 - 1.25	20	9.78	9.85	13.250	9.60	0.03	1.21	1.35
2TLM10 X 1.5C - 25	M10 - 1.5	25	11.95	12.04	14.250	11.71	0.03	1.45	1.60
2TLM12 X 1.75C- 30	M12 - 1.75	30	14.30	14.45	14.625	13.99	0.03	1.70	1.87

PART NO.	THREAD SIZE	K		L	M
		Min	Max	Max	± 1
2TLM2.5 X 45C - 6.25	M2.5 - 0.45	4	5	2	5.250
2TLM3 X .5C - 7.5	M3 - 0.5	4	5	2	5.688
2TLM4 X .7C - 10	M4 - 0.7	4	5	2	5.563
2TLM5 X .8C - 12.5	M5 - 0.8	4	5	2	6.188
2TLM-6 X 1C - 15	M6 - 1.0	4	5	2	6.063
2TLM8 X 1.25C - 20	M8 - 1.25	5	6	2	6.625
2TLM10 X 1.5C - 25	M10 - 1.5	5	6	2	7.125
2TLM12 X 1.75C- 30	M12 - 1.75	5	6	2	7.313

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3.0 DIA. LOCKING

PART NO.	THREAD SIZE	NOMINAL LENGTH	A		B	C	MIN	PITCH	
			Min	Max	± 0.25	Min	C	Min	Max
2TLM2.5 X 45C - 7.5	M2.5 - 0.45	7.5	3.19	3.23	12.750	3.03	0.03	0.42	0.52
2TLM3 X .5C - 9	M3 - 0.5	9	3.78	3.82	13.875	3.59	0.03	0.47	0.55
2TLM4 X .7C - 12	M4 - 0.7	12	5.05	5.12	13.625	4.82	0.03	0.66	0.76
2TLM5 X .8C - 15	M5 - 0.8	15	6.20	6.28	15.125	5.93	0.03	0.76	0.86
2TLM-6 X 1C - 18	M6 - 1.0	18	7.40	7.50	14.875	7.25	0.03	0.96	1.07
2TLM8 X 1.25C - 24	M8 - 1.25	24	9.78	9.85	16.125	9.60	0.03	1.21	1.35
2TLM10 X 1.5C - 30	M10 - 1.5	30	11.95	12.04	17.375	11.71	0.03	1.45	1.60
2TLM12 X 1.75C- 36	M12 - 1.75	36	14.30	14.45	17.875	13.99	0.03	1.70	1.87

PART NO.	THREAD SIZE	K		L	M
		Min	Max	Max	± 1
2TLM2.5 X 45C - 7.5	M2.5 - 0.45	4	5	2	6.375
2TLM3 X .5C - 9	M3 - 0.5	4	5	2	6.938
2TLM4 X .7C - 12	M4 - 0.7	4	5	2	6.813
2TLM5 X .8C - 15	M5 - 0.8	4	5	2	7.563
2TLM-6 X 1C - 18	M6 - 1.0	4	5	2	7.438
2TLM8 X 1.25C - 24	M8 - 1.25	5	6	2	8.063
2TLM10 X 1.5C - 30	M10 - 1.5	5	6	2	8.688
2TLM12 X 1.75C- 36	M12 - 1.75	5	6	2	8.938

THREAD SIZE	MAX		MIN	
	N-m	in-lb	N-m	in-lb
M2.5 - 0.45	0.22	1.947	0.06	0.531
M3 - 0.5	0.44	3.894	0.10	0.885
M4 - 0.7	0.90	7.965	0.16	1.416
M5 - 0.8	1.60	14.160	0.30	2.655
M6 - 1.0	3.00	26.550	0.40	3.540
M8 - 1.25	6.00	53.100	0.80	7.080
M10 - 1.5	10.00	88.500	1.40	12.39
M12 - 1.75	15.00	132.7	2.20	19.48