

1145 An Ominbus Bus Ride (small)



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Instructions

Thank you for choosing Golden Kite products!
We hope you will have lots of fun with this cross-stitch pattern!

Fabric

Press the fabric with an iron if needed. A good thing to prevent the fabric from fraying is to machine zigzag the edges.

On large patterns, it is easiest to start from the upper left corner of the design. Make sure you have the proper margins before starting and that the fabric piece is of the correct size. The best way to verify this is to count all stitch positions on the fabric from the upper left corner downwards and to the right to make sure there is enough space for the design.

Some prefer to start in the center of the design instead. To locate the center of the fabric, fold the fabric in half both vertically and horizontally. The center is located where these two folds meet.

Stitches

Each length of DMC tread consists of six strands.
Use two of these strands for all stitches.

Note that some colors may be mixes (or blends) between two different pure colors. In that case take one strand of the two colors each and thread the two strands into the needle at the same time for stitching.

All stitches are full cross-stitches. No half-stitching and no back-stitching is necessary in this pattern.

All cross-stitches will be worked into the holes in the fabric from left to right. Always use the larger holes in the fabric for the stitches. Adjacent stitches should meet in the same hole. Make sure all stitches cross in the same direction.

Please be careful when washing the finished embroidery! The cotton thread may bleed when washed. Only hand wash it in lukewarm water. Remove excess water by roll it in a towel and lay it flat to air dry. Natural fabrics may shrink slightly when washed. We do not recommend washing the embroidery if not absolutely necessary and we take no responsibility for any damage that may occur.

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An Ominbus Bus Ride (small)

Stitch Count	
Horizontal:	234
Vertical:	172

Recommended Fabric Color
Antique White

This table tells the size of the pattern (without any margins) and the size of the fabric required to stitch the pattern (including recommended margins). 3 inch margins have been added on each side in the 'Including Margins' row.

The sizes are given for 14, 16 and 18 stitches per inch fabrics.

Make sure to use the 'Including Margins' row when cutting the piece of fabric to be used. Also make sure that 3 inch margins are enough for your stitching technique and add more margin areas if necessary.

	14				16				18			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	43	16.71	32	12.21	38	14.62	28	10.68	34	13	25	9.5
Including Margins:	59	23	48	19	54	21	44	17	50	20	41	16
	10				12				24			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	60	23.39	44	17.09	50	19.49	37	14.24	25	9.74	18	7.12
Including Margins:	76	30	60	24	66	26	53	21	41	16	34	14
	25				26				27			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	24	9.35	17	6.83	23	8.99	17	6.57	22	8.66	16	6.33
Including Margins:	40	16	33	13	39	15	33	13	38	15	32	13
	28				30				32			
	Width		Height		Width		Height		Width		Height	
	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch	cm	inch
Pattern:	21	8.35	16	6.1	20	7.79	14	5.69	18	7.31	14	5.34
Including Margins:	37	15	32	13	36	14	30	12	34	14	30	12

Solid Color Stitches. Use two strands of the specified color for these stitches.		
Symbol	DMC	Name
⦿	224	Shell Pink-VY LT
►	315	Antique Mauve-VY DK
✚	371	Mustard
♣	407	Desert Sand-DK
♠	413	Pewter Gray-DK
✿	433	Brown-MD
✂	451	Shell Gray-DK
▷	453	Shell Gray-LT
≡	535	Ash Gray-VY LT
⊥	543	Beige Brown-UL VY LT
⊕	612	Drab Brown-LT
✿	632	Desert Sand-UL VY DK
⌘	640	Beige Gray-VY DK
⊖	645	Beaver Gray-VY DK
▲	646	Beaver Gray-DK
::	647	Beaver Gray-MD
∅	648	Beaver Gray-LT
∪	712	Cream
=	738	Tan-VY LT
^	739	Tan-UL VY LT
	754	Peach-LT
6	758	Terra Cotta-VY LT
:	778	Antique Mauve-VY LT
☛	801	Coffee Brown-DK
↑	838	Beige Brown-VY DK
φ	839	Beige Brown-DK
⊕	840	Beige Brown-MD
○	841	Beige Brown-LT
⊗	844	Beaver Brown-UL DK

✂	924	Gray Green--VY DK
•	926	Gray Green-MD
☆	927	Gray Green-LT
+	928	Gray Green-VY LT
●	938	Coffee Brown-UL DK
«	948	Peach-VY LT
<	950	Desert Sand-LT
φ	3021	Brown Gray-VY DK
#	3022	Brown Gray-MD
□	3023	Brown Gray-LT
☛	3031	Mocha Brown-VY DK
◦	3072	Beaver Gray-VY LT
▒	3685	Mauve-DK
⋈	3713	Salmon-VY LT
☾	3721	Shell Pink-DK
☉	3722	Shell Pink-MD
▲	3740	Antique Violet-DK
*	3768	Gray Green-DK
☛	3772	Desert Sand-VY DK
⌘	3778	Terra Cotta-LT
⊕	3781	Mocha Brown-DK
∅	3782	Mocha Brown-LT
▲	3787	Brown Gray-DK
↓	3799	Pewter Gray-VY DK
✂	3809	Turquoise-VY DK
⌘	3830	Terra Cotta-MD
●	3858	Rosewood-MD
✓	3861	Cocoa-LT
⊕	3862	Mocha Beige-DK
⊖	3863	Mocha Beige-MD
5	3864	Mocha Beige-LT
∪	3866	Mocha Brown-UL VY LT

Blend Stitches. Use one strand of each of DMC1 and DMC2 for these stitches.				
Symbol	DMC1	Name1	DMC2	Name2
**	3021	Brown Gray-VY DK	3031	Mocha Brown-VY DK
//	3721	Shell Pink-DK	3862	Mocha Beige-DK
☉	645	Beaver Gray-VY DK	3740	Antique Violet-DK
♣	844	Beaver Brown-UL DK	3799	Pewter Gray-VY DK
▒	3021	Brown Gray-VY DK	3787	Brown Gray-DK
▒	840	Beige Brown-MD	3860	Cocoa
▲	3740	Antique Violet-DK	3787	Brown Gray-DK
4	452	Shell Gray-MD	648	Beaver Gray-LT
✂	413	Pewter Gray-DK	844	Beaver Brown-UL DK
✂	414	Steel Gray-DK	647	Beaver Gray-MD
◀	3781	Mocha Brown-DK	3787	Brown Gray-DK
✂	3781	Mocha Brown-DK	610	Drab Brown-DK
☉	3781	Mocha Brown-DK	839	Beige Brown-DK
▼	3021	Brown Gray-VY DK	844	Beaver Brown-UL DK
..	414	Steel Gray-DK	927	Gray Green-LT
⊕	317	Pewter Gray	926	Gray Green-MD
✂	610	Drab Brown-DK	632	Desert Sand-UL VY DK

⬇	610	Drab Brown-DK	3787	Brown Gray-DK
♥	934	Black Avocado Green	3799	Pewter Gray-VY DK
✿	500	Blue Green-VY DK	3799	Pewter Gray-VY DK
◎	3772	Desert Sand-VY DK	371	Mustard
✿	3860	Cocoa	645	Beaver Gray-VY DK
⅞	640	Beige Gray-VY DK	3860	Cocoa
×	640	Beige Gray-VY DK	645	Beaver Gray-VY DK
♠	645	Beaver Gray-VY DK	926	Gray Green-MD
←	3781	Mocha Brown-DK	838	Beige Brown-VY DK
9	648	Beaver Gray-LT	3864	Mocha Beige-LT
∞	3713	Salmon-VY LT	3866	Mocha Brown-UL VY LT
L	950	Desert Sand-LT	648	Beaver Gray-LT
♡	778	Antique Mauve-VY LT	950	Desert Sand-LT
◇	927	Gray Green-LT	928	Gray Green-VY LT
⇐	778	Antique Mauve-VY LT	452	Shell Gray-MD
➔	3799	Pewter Gray-VY DK	3802	Antique Mauve-VY DK
↶	414	Steel Gray-DK	503	Blue Green-MD
↷	645	Beaver Gray-VY DK	646	Beaver Gray-DK
↑	414	Steel Gray-DK	926	Gray Green-MD
?	3685	Mauve-DK	838	Beige Brown-VY DK
✕	838	Beige Brown-VY DK	3799	Pewter Gray-VY DK
▲	535	Ash Gray-VY LT	838	Beige Brown-VY DK
T	3041	Antique Violet-MD	646	Beaver Gray-DK
◀	640	Beige Gray-VY DK	3787	Brown Gray-DK
▀	3860	Cocoa	839	Beige Brown-DK
③	823	Navy Blue-DK	3799	Pewter Gray-VY DK
➤	646	Beaver Gray-DK	3740	Antique Violet-DK
3	407	Desert Sand-DK	758	Terra Cotta-VY LT
8	224	Shell Pink-VY LT	452	Shell Gray-MD
☾	839	Beige Brown-DK	610	Drab Brown-DK
Z	3772	Desert Sand-VY DK	3830	Terra Cotta-MD
L	3830	Terra Cotta-MD	3721	Shell Pink-DK
✱	975	Golden Brown-DK	3721	Shell Pink-DK
≡	3778	Terra Cotta-LT	3830	Terra Cotta-MD
✕	975	Golden Brown-DK	3862	Mocha Beige-DK
≡	3064	Desert Sand	437	Tan-LT
⋮	3722	Shell Pink-MD	3862	Mocha Beige-DK
×	3778	Terra Cotta-LT	3863	Mocha Beige-MD
∞	3863	Mocha Beige-MD	420	Hazelnut Brown-DK
☾	839	Beige Brown-DK	975	Golden Brown-DK
H	610	Drab Brown-DK	3790	Beige Gray-UL DK
☼	3781	Mocha Brown-DK	3021	Brown Gray-VY DK
†	3802	Antique Mauve-VY DK	3021	Brown Gray-VY DK
⋮	3802	Antique Mauve-VY DK	838	Beige Brown-VY DK
⋮	3782	Mocha Brown-LT	841	Beige Brown-LT
⋮	451	Shell Gray-DK	3032	Mocha Brown-MD
2	647	Beaver Gray-MD	3861	Cocoa-LT
⋮	839	Beige Brown-DK	3802	Antique Mauve-VY DK
↑	3778	Terra Cotta-LT	841	Beige Brown-LT
≡	3032	Mocha Brown-MD	3863	Mocha Beige-MD
□	648	Beaver Gray-LT	3047	Yellow Beige-LT
▣	3802	Antique Mauve-VY DK	610	Drab Brown-DK
δ	3756	Baby Blue-UL VY LT	3072	Beaver Gray-VY LT
1	3756	Baby Blue-UL VY LT	712	Cream
n	3072	Beaver Gray-VY LT	712	Cream
(712	Cream	648	Beaver Gray-LT
√	452	Shell Gray-MD	927	Gray Green-LT
m	647	Beaver Gray-MD	927	Gray Green-LT
✍	3768	Gray Green-DK	926	Gray Green-MD

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⌂	645	Beaver Gray-VY DK	535	Ash Gray-VY LT
♦♦	844	Beaver Brown-UL DK	645	Beaver Gray-VY DK
◇	3860	Cocoa	3787	Brown Gray-DK
●	3021	Brown Gray-VY DK	645	Beaver Gray-VY DK
↘	3032	Mocha Brown-MD	3772	Desert Sand-VY DK
❖	3862	Mocha Beige-DK	315	Antique Mauve-VY DK
↓	838	Beige Brown-VY DK	844	Beaver Brown-UL DK
⌘	645	Beaver Gray-VY DK	3799	Pewter Gray-VY DK
7	648	Beaver Gray-LT	3861	Cocoa-LT
)	543	Beige Brown-UL VY LT	224	Shell Pink-VY LT
⊠	841	Beige Brown-LT	224	Shell Pink-VY LT
e	950	Desert Sand-LT	841	Beige Brown-LT
•	648	Beaver Gray-LT	3866	Mocha Brown-UL VY LT
‡	840	Beige Brown-MD	223	Shell Pink-LT
⊞	840	Beige Brown-MD	841	Beige Brown-LT
§	841	Beige Brown-LT	3772	Desert Sand-VY DK
⌚	610	Drab Brown-DK	315	Antique Mauve-VY DK
★	315	Antique Mauve-VY DK	3790	Beige Gray-UL DK
↓	223	Shell Pink-LT	841	Beige Brown-LT
⇒	3862	Mocha Beige-DK	840	Beige Brown-MD
✕	315	Antique Mauve-VY DK	840	Beige Brown-MD
∴	315	Antique Mauve-VY DK	640	Beige Gray-VY DK
○	950	Desert Sand-LT	758	Terra Cotta-VY LT
⊞	223	Shell Pink-LT	632	Desert Sand-UL VY DK
н	224	Shell Pink-VY LT	3722	Shell Pink-MD
/	452	Shell Gray-MD	758	Terra Cotta-VY LT
*	632	Desert Sand-UL VY DK	3772	Desert Sand-VY DK
⌘	3863	Mocha Beige-MD	3772	Desert Sand-VY DK
↘	535	Ash Gray-VY LT	926	Gray Green-MD
⊞	640	Beige Gray-VY DK	3740	Antique Violet-DK
◁	452	Shell Gray-MD	223	Shell Pink-LT
⊞	632	Desert Sand-UL VY DK	840	Beige Brown-MD
◇	3802	Antique Mauve-VY DK	844	Beaver Brown-UL DK
III	3778	Terra Cotta-LT	223	Shell Pink-LT
⊞	451	Shell Gray-DK	840	Beige Brown-MD
■	934	Black Avocado Green	3371	Black Brown
■	500	Blue Green-VY DK	823	Navy Blue-DK
⌘	648	Beaver Gray-LT	841	Beige Brown-LT
⊞	924	Gray Green--VY DK	3768	Gray Green-DK
⊞	3768	Gray Green-DK	3809	Turquoise-VY DK
⌘	317	Pewter Gray	3809	Turquoise-VY DK
⌘	535	Ash Gray-VY LT	844	Beaver Brown-UL DK
▲	3802	Antique Mauve-VY DK	3685	Mauve-DK
+	3834	Grape-DK	535	Ash Gray-VY LT
●	823	Navy Blue-DK	938	Coffee Brown-UL DK
◆	3802	Antique Mauve-VY DK	823	Navy Blue-DK
●	823	Navy Blue-DK	838	Beige Brown-VY DK
○	3685	Mauve-DK	823	Navy Blue-DK
—	223	Shell Pink-LT	224	Shell Pink-VY LT

This table specifies how much thread of each color is required to stitch this pattern. It is good to know that one complete DMC skein contains 313 inches (795 cm) thread.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		14		16		18	
223	Shell Pink-LT	84	33	80	31	72	28
224	Shell Pink-VY LT	59	23	56	22	50	19
315	Antique Mauve-VY DK	107	42	102	40	92	36
317	Pewter Gray	12	4	11	4	10	3
371	Mustard	23	9	22	8	20	7
407	Desert Sand-DK	36	14	34	13	31	12
413	Pewter Gray-DK	72	28	69	27	62	24
414	Steel Gray-DK	92	36	88	34	79	31
420	Hazelnut Brown-DK	13	5	13	5	11	4
433	Brown-MD	5	1	5	1	4	1
437	Tan-LT	1	1	1	1	1	1
451	Shell Gray-DK	194	76	185	72	166	65
452	Shell Gray-MD	129	50	123	48	110	43
453	Shell Gray-LT	88	34	84	33	76	29
500	Blue Green-VY DK	388	152	369	145	332	130
503	Blue Green-MD	14	5	14	5	12	4
535	Ash Gray-VY LT	243	95	231	90	208	81
543	Beige Brown-UL VY LT	35	13	34	13	30	11
610	Drab Brown-DK	318	125	303	119	272	107
612	Drab Brown-LT	20	7	19	7	17	6
632	Desert Sand-UL VY DK	117	46	112	44	101	39
640	Beige Gray-VY DK	145	57	138	54	124	48
645	Beaver Gray-VY DK	373	146	356	140	320	125
646	Beaver Gray-DK	200	78	190	74	171	67
647	Beaver Gray-MD	153	60	146	57	131	51
648	Beaver Gray-LT	297	116	283	111	255	100
712	Cream	31	12	29	11	26	10
738	Tan-VY LT	4	1	4	1	4	1
739	Tan-UL VY LT	7	2	6	2	6	2
754	Peach-LT	2	1	2	1	2	1
758	Terra Cotta-VY LT	30	11	28	11	26	10
778	Antique Mauve-VY LT	14	5	13	5	12	4
801	Coffee Brown-DK	12	4	11	4	10	3
823	Navy Blue-DK	651	256	620	244	558	219
838	Beige Brown-VY DK	777	305	740	291	666	262
839	Beige Brown-DK	380	149	362	142	325	127
840	Beige Brown-MD	232	91	221	87	199	78
841	Beige Brown-LT	269	105	257	101	231	90
844	Beaver Brown-UL DK	549	216	523	205	470	185
924	Gray Green--VY DK	18	7	17	6	15	5
926	Gray Green-MD	78	30	75	29	67	26
927	Gray Green-LT	140	55	133	52	120	47
928	Gray Green-VY LT	65	25	62	24	56	22
934	Black Avocado Green	230	90	219	86	197	77
938	Coffee Brown-UL DK	341	134	325	127	292	114
948	Peach-VY LT	3	1	3	1	3	1
950	Desert Sand-LT	60	23	57	22	52	20
975	Golden Brown-DK	34	13	33	12	29	11
3021	Brown Gray-VY DK	322	126	306	120	276	108
3022	Brown Gray-MD	36	14	34	13	31	12
3023	Brown Gray-LT	7	2	7	2	6	2
3031	Mocha Brown-VY DK	60	23	57	22	51	20
3032	Mocha Brown-MD	78	30	74	29	67	26
3041	Antique Violet-MD	49	19	47	18	42	16

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3047	Yellow Beige-LT	4	1	4	1	4	1
3064	Desert Sand	1	1	1	1	1	1
3072	Beaver Gray-VY LT	60	23	57	22	52	20
3371	Black Brown	9	3	9	3	8	3
3685	Mauve-DK	51	20	48	18	43	16
3713	Salmon-VY LT	11	4	11	4	10	3
3721	Shell Pink-DK	26	10	25	9	22	8
3722	Shell Pink-MD	12	4	11	4	10	3
3740	Antique Violet-DK	108	42	103	40	92	36
3756	Baby Blue-UL VY LT	11	4	10	3	9	3
3768	Gray Green-DK	32	12	30	11	27	10
3772	Desert Sand-VY DK	111	43	105	41	95	37
3778	Terra Cotta-LT	22	8	21	8	19	7
3781	Mocha Brown-DK	182	71	173	68	156	61
3782	Mocha Brown-LT	53	20	51	20	46	18
3787	Brown Gray-DK	409	161	389	153	350	137
3790	Beige Gray-UL DK	58	22	56	22	50	19
3799	Pewter Gray-VY DK	1541	606	1467	577	1320	519
3802	Antique Mauve-VY DK	244	96	233	91	209	82
3809	Turquoise-VY DK	17	6	16	6	14	5
3830	Terra Cotta-MD	15	5	14	5	13	5
3834	Grape-DK	17	6	16	6	14	5
3858	Rosewood-MD	5	1	5	1	5	1
3860	Cocoa	186	73	177	69	159	62
3861	Cocoa-LT	162	63	154	60	139	54
3862	Mocha Beige-DK	110	43	105	41	95	37
3863	Mocha Beige-MD	69	27	65	25	59	23
3864	Mocha Beige-LT	49	19	47	18	42	16
3866	Mocha Brown-UL VY LT	42	16	40	15	36	14

Extended thread usage table.

DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		10		12		24	
223	Shell Pink-LT	130	50	108	42	54	21
224	Shell Pink-VY LT	90	34	75	29	38	14
315	Antique Mauve-VY DK	166	65	138	54	69	27
317	Pewter Gray	18	5	15	5	8	2
371	Mustard	36	13	30	11	15	5
407	Desert Sand-DK	56	22	47	18	23	9
413	Pewter Gray-DK	112	43	93	36	47	18
414	Steel Gray-DK	142	56	119	47	59	23
420	Hazelnut Brown-DK	20	7	17	6	8	3
433	Brown-MD	7	2	6	2	3	1
437	Tan-LT	2	2	2	2	1	1
451	Shell Gray-DK	299	117	249	98	125	49
452	Shell Gray-MD	198	77	165	65	83	32
453	Shell Gray-LT	137	52	114	44	57	22
500	Blue Green-VY DK	598	234	498	195	249	98
503	Blue Green-MD	22	7	18	6	9	3
535	Ash Gray-VY LT	374	146	312	122	156	61
543	Beige Brown-UL VY LT	54	20	45	17	23	8
610	Drab Brown-DK	490	193	408	161	204	80
612	Drab Brown-LT	31	11	26	9	13	5
632	Desert Sand-UL VY DK	182	70	152	59	76	29
640	Beige Gray-VY DK	223	86	186	72	93	36
645	Beaver Gray-VY DK	576	225	480	188	240	94
646	Beaver Gray-DK	308	121	257	101	128	50

647	Beaver Gray-MD	236	92	197	77	98	38
648	Beaver Gray-LT	459	180	383	150	191	75
712	Cream	47	18	39	15	20	8
738	Tan-VY LT	7	2	6	2	3	1
739	Tan-UL VY LT	11	4	9	3	5	2
754	Peach-LT	4	2	3	2	2	1
758	Terra Cotta-VY LT	47	18	39	15	20	8
778	Antique Mauve-VY LT	22	7	18	6	9	3
801	Coffee Brown-DK	18	5	15	5	8	2
823	Navy Blue-DK	1004	394	837	329	419	164
838	Beige Brown-VY DK	1199	472	999	393	500	197
839	Beige Brown-DK	585	229	488	191	244	95
840	Beige Brown-MD	358	140	299	117	149	59
841	Beige Brown-LT	416	162	347	135	173	68
844	Beaver Brown-UL DK	846	333	705	278	353	139
924	Gray Green--VY DK	27	9	23	8	11	4
926	Gray Green-MD	121	47	101	39	50	20
927	Gray Green-LT	216	85	180	71	90	35
928	Gray Green-VY LT	101	40	84	33	42	17
934	Black Avocado Green	355	139	296	116	148	58
938	Coffee Brown-UL DK	526	205	438	171	219	86
948	Peach-VY LT	5	2	5	2	2	1
950	Desert Sand-LT	94	36	78	30	39	15
975	Golden Brown-DK	52	20	44	17	22	8
3021	Brown Gray-VY DK	497	194	414	162	207	81
3022	Brown Gray-MD	56	22	47	18	23	9
3023	Brown Gray-LT	11	4	9	3	5	2
3031	Mocha Brown-VY DK	92	36	77	30	38	15
3032	Mocha Brown-MD	121	47	101	39	50	20
3041	Antique Violet-MD	76	29	63	24	32	12
3047	Yellow Beige-LT	7	2	6	2	3	1
3064	Desert Sand	2	2	2	2	1	1
3072	Beaver Gray-VY LT	94	36	78	30	39	15
3371	Black Brown	14	5	12	5	6	2
3685	Mauve-DK	77	29	65	24	32	12
3713	Salmon-VY LT	18	5	15	5	8	2
3721	Shell Pink-DK	40	14	33	12	17	6
3722	Shell Pink-MD	18	5	15	5	8	2
3740	Antique Violet-DK	166	65	138	54	69	27
3756	Baby Blue-UL VY LT	16	5	14	5	7	2
3768	Gray Green-DK	49	18	41	15	20	8
3772	Desert Sand-VY DK	171	67	143	56	71	28
3778	Terra Cotta-LT	34	13	29	11	14	5
3781	Mocha Brown-DK	281	110	234	92	117	46
3782	Mocha Brown-LT	83	32	69	27	35	14
3787	Brown Gray-DK	630	247	525	206	263	103
3790	Beige Gray-UL DK	90	34	75	29	38	14
3799	Pewter Gray-VY DK	2376	934	1980	779	990	389
3802	Antique Mauve-VY DK	376	148	314	123	157	62
3809	Turquoise-VY DK	25	9	21	8	11	4
3830	Terra Cotta-MD	23	9	20	8	10	4
3834	Grape-DK	25	9	21	8	11	4
3858	Rosewood-MD	9	2	8	2	4	1
3860	Cocoa	286	112	239	93	119	47
3861	Cocoa-LT	250	97	209	81	104	41
3862	Mocha Beige-DK	171	67	143	56	71	28
3863	Mocha Beige-MD	106	41	89	35	44	17
3864	Mocha Beige-LT	76	29	63	24	32	12
3866	Mocha Brown-UL VY LT	65	25	54	21	27	11

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Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		25		26		27	
223	Shell Pink-LT	52	20	50	19	48	19
224	Shell Pink-VY LT	36	14	35	13	33	13
315	Antique Mauve-VY DK	66	26	64	25	61	24
317	Pewter Gray	7	2	7	2	7	2
371	Mustard	14	5	14	5	13	5
407	Desert Sand-DK	22	9	21	8	21	8
413	Pewter Gray-DK	45	17	43	17	41	16
414	Steel Gray-DK	57	22	55	21	53	21
420	Hazelnut Brown-DK	8	3	8	3	7	3
433	Brown-MD	3	1	3	1	3	1
437	Tan-LT	1	1	1	1	1	1
451	Shell Gray-DK	120	47	115	45	111	43
452	Shell Gray-MD	79	31	76	30	73	29
453	Shell Gray-LT	55	21	53	20	51	19
500	Blue Green-VY DK	239	94	230	90	221	87
503	Blue Green-MD	9	3	8	3	8	3
535	Ash Gray-VY LT	150	58	144	56	139	54
543	Beige Brown-UL VY LT	22	8	21	8	20	7
610	Drab Brown-DK	196	77	188	74	181	71
612	Drab Brown-LT	12	4	12	4	11	4
632	Desert Sand-UL VY DK	73	28	70	27	67	26
640	Beige Gray-VY DK	89	35	86	33	83	32
645	Beaver Gray-VY DK	230	90	222	87	213	83
646	Beaver Gray-DK	123	48	118	46	114	45
647	Beaver Gray-MD	94	37	91	35	87	34
648	Beaver Gray-LT	184	72	177	69	170	67
712	Cream	19	7	18	7	17	7
738	Tan-VY LT	3	1	3	1	3	1
739	Tan-UL VY LT	4	1	4	1	4	1
754	Peach-LT	1	1	1	1	1	1
758	Terra Cotta-VY LT	19	7	18	7	17	7
778	Antique Mauve-VY LT	9	3	8	3	8	3
801	Coffee Brown-DK	7	2	7	2	7	2
823	Navy Blue-DK	402	158	386	152	372	146
838	Beige Brown-VY DK	480	189	461	181	444	175
839	Beige Brown-DK	234	91	225	88	217	85
840	Beige Brown-MD	143	56	138	54	133	52
841	Beige Brown-LT	166	65	160	62	154	60
844	Beaver Brown-UL DK	338	133	325	128	313	123
924	Gray Green--VY DK	11	4	10	3	10	3
926	Gray Green-MD	48	19	46	18	45	17
927	Gray Green-LT	86	34	83	33	80	31
928	Gray Green-VY LT	40	16	39	15	37	15
934	Black Avocado Green	142	55	136	53	131	51
938	Coffee Brown-UL DK	210	82	202	79	195	76
948	Peach-VY LT	2	1	2	1	2	1
950	Desert Sand-LT	37	14	36	14	35	13
975	Golden Brown-DK	21	8	20	8	19	7
3021	Brown Gray-VY DK	199	78	191	75	184	72
3022	Brown Gray-MD	22	9	21	8	21	8
3023	Brown Gray-LT	4	1	4	1	4	1
3031	Mocha Brown-VY DK	37	14	35	14	34	13

3032	Mocha Brown-MD	48	19	46	18	45	17
3041	Antique Violet-MD	30	12	29	11	28	11
3047	Yellow Beige-LT	3	1	3	1	3	1
3064	Desert Sand	1	1	1	1	1	1
3072	Beaver Gray-VY LT	37	14	36	14	35	13
3371	Black Brown	6	2	6	2	5	2
3685	Mauve-DK	31	12	30	11	29	11
3713	Salmon-VY LT	7	2	7	2	7	2
3721	Shell Pink-DK	16	6	15	6	15	5
3722	Shell Pink-MD	7	2	7	2	7	2
3740	Antique Violet-DK	66	26	64	25	61	24
3756	Baby Blue-UL VY LT	6	2	6	2	6	2
3768	Gray Green-DK	19	7	19	7	18	7
3772	Desert Sand-VY DK	68	27	66	26	63	25
3778	Terra Cotta-LT	14	5	13	5	13	5
3781	Mocha Brown-DK	112	44	108	42	104	41
3782	Mocha Brown-LT	33	13	32	12	31	12
3787	Brown Gray-DK	252	99	242	95	233	91
3790	Beige Gray-UL DK	36	14	35	13	33	13
3799	Pewter Gray-VY DK	950	374	914	359	880	346
3802	Antique Mauve-VY DK	150	59	145	57	139	55
3809	Turquoise-VY DK	10	4	10	3	9	3
3830	Terra Cotta-MD	9	4	9	3	9	3
3834	Grape-DK	10	4	10	3	9	3
3858	Rosewood-MD	4	1	3	1	3	1
3860	Cocoa	114	45	110	43	106	41
3861	Cocoa-LT	100	39	96	37	93	36
3862	Mocha Beige-DK	68	27	66	26	63	25
3863	Mocha Beige-MD	42	17	41	16	39	15
3864	Mocha Beige-LT	30	12	29	11	28	11
3866	Mocha Brown-UL VY LT	26	10	25	10	24	9

Extended thread usage table.							
DMC	Name	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)	Usage (cm)	Usage (inch)
		28		30		32	
223	Shell Pink-LT	46	18	43	17	41	16
224	Shell Pink-VY LT	32	12	30	11	28	11
315	Antique Mauve-VY DK	59	23	55	22	52	20
317	Pewter Gray	6	2	6	2	6	2
371	Mustard	13	5	12	4	11	4
407	Desert Sand-DK	20	8	19	7	17	7
413	Pewter Gray-DK	40	15	37	14	35	14
414	Steel Gray-DK	51	20	47	19	44	17
420	Hazelnut Brown-DK	7	3	7	2	6	2
433	Brown-MD	3	1	2	1	2	1
437	Tan-LT	1	1	1	1	1	1
451	Shell Gray-DK	107	42	100	39	93	37
452	Shell Gray-MD	71	28	66	26	62	24
453	Shell Gray-LT	49	19	46	17	43	16
500	Blue Green-VY DK	213	84	199	78	187	73
503	Blue Green-MD	8	3	7	2	7	2
535	Ash Gray-VY LT	134	52	125	49	117	46
543	Beige Brown-UL VY LT	19	7	18	7	17	6
610	Drab Brown-DK	175	69	163	64	153	60
612	Drab Brown-LT	11	4	10	4	10	3
632	Desert Sand-UL VY DK	65	25	61	23	57	22
640	Beige Gray-VY DK	80	31	74	29	70	27

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645	Beaver Gray-VY DK	206	80	192	75	180	70
646	Beaver Gray-DK	110	43	103	40	96	38
647	Beaver Gray-MD	84	33	79	31	74	29
648	Beaver Gray-LT	164	64	153	60	143	56
712	Cream	17	6	16	6	15	6
738	Tan-VY LT	3	1	2	1	2	1
739	Tan-UL VY LT	4	1	4	1	3	1
754	Peach-LT	1	1	1	1	1	1
758	Terra Cotta-VY LT	17	6	16	6	15	6
778	Antique Mauve-VY LT	8	3	7	2	7	2
801	Coffee Brown-DK	6	2	6	2	6	2
823	Navy Blue-DK	359	141	335	131	314	123
838	Beige Brown-VY DK	428	168	400	157	375	147
839	Beige Brown-DK	209	82	195	76	183	71
840	Beige Brown-MD	128	50	119	47	112	44
841	Beige Brown-LT	149	58	139	54	130	51
844	Beaver Brown-UL DK	302	119	282	111	264	104
924	Gray Green--VY DK	10	3	9	3	8	3
926	Gray Green-MD	43	17	40	16	38	15
927	Gray Green-LT	77	30	72	28	68	26
928	Gray Green-VY LT	36	14	34	13	32	12
934	Black Avocado Green	127	50	118	46	111	43
938	Coffee Brown-UL DK	188	73	175	68	164	64
948	Peach-VY LT	2	1	2	1	2	1
950	Desert Sand-LT	33	13	31	12	29	11
975	Golden Brown-DK	19	7	17	7	16	6
3021	Brown Gray-VY DK	177	69	166	65	155	61
3022	Brown Gray-MD	20	8	19	7	17	7
3023	Brown Gray-LT	4	1	4	1	3	1
3031	Mocha Brown-VY DK	33	13	31	12	29	11
3032	Mocha Brown-MD	43	17	40	16	38	15
3041	Antique Violet-MD	27	10	25	10	24	9
3047	Yellow Beige-LT	3	1	2	1	2	1
3064	Desert Sand	1	1	1	1	1	1
3072	Beaver Gray-VY LT	33	13	31	12	29	11
3371	Black Brown	5	2	5	2	5	2
3685	Mauve-DK	28	10	26	10	24	9
3713	Salmon-VY LT	6	2	6	2	6	2
3721	Shell Pink-DK	14	5	13	5	12	5
3722	Shell Pink-MD	6	2	6	2	6	2
3740	Antique Violet-DK	59	23	55	22	52	20
3756	Baby Blue-UL VY LT	6	2	5	2	5	2
3768	Gray Green-DK	17	6	16	6	15	6
3772	Desert Sand-VY DK	61	24	57	22	53	21
3778	Terra Cotta-LT	12	5	11	4	11	4
3781	Mocha Brown-DK	100	39	94	37	88	34
3782	Mocha Brown-LT	30	12	28	11	26	10
3787	Brown Gray-DK	225	88	210	82	197	77
3790	Beige Gray-UL DK	32	12	30	11	28	11
3799	Pewter Gray-VY DK	849	334	792	311	743	292
3802	Antique Mauve-VY DK	134	53	125	49	118	46
3809	Turquoise-VY DK	9	3	8	3	8	3
3830	Terra Cotta-MD	8	3	8	3	7	3
3834	Grape-DK	9	3	8	3	8	3
3858	Rosewood-MD	3	1	3	1	3	1
3860	Cocoa	102	40	95	37	89	35
3861	Cocoa-LT	89	35	83	32	78	30
3862	Mocha Beige-DK	61	24	57	22	53	21
3863	Mocha Beige-MD	38	15	35	14	33	13

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3864	Mocha Beige-LT	27	10	25	10	24	9
3866	Mocha Brown-UL VY LT	23	9	22	8	20	8

[illegible]

[illegible]

(9)

(10)

	190	200	210	220	230
10	+	+	+	+	+
20	+	+	+	+	+
30	+	+	+	+	+
40	+	+	+	+	+
50	+	+	+	+	+
60	+	+	+	+	+
70	+	+	+	+	+
80	+	+	+	+	+
90	+	+	+	+	+
100	+	+	+	+	+
110	+	+	+	+	+
120	+	+	+	+	+
130	+	+	+	+	+
140	+	+	+	+	+
150	+	+	+	+	+
160	+	+	+	+	+
170	+	+	+	+	+
180	+	+	+	+	+
190	+	+	+	+	+
200	+	+	+	+	+
210	+	+	+	+	+
220	+	+	+	+	+
230	+	+	+	+	+
240	+	+	+	+	+
250	+	+	+	+	+
260	+	+	+	+	+
270	+	+	+	+	+
280	+	+	+	+	+
290	+	+	+	+	+
300	+	+	+	+	+
310	+	+	+	+	+
320	+	+	+	+	+
330	+	+	+	+	+
340	+	+	+	+	+
350	+	+	+	+	+
360	+	+	+	+	+
370	+	+	+	+	+
380	+	+	+	+	+
390	+	+	+	+	+
400	+	+	+	+	+
410	+	+	+	+	+
420	+	+	+	+	+
430	+	+	+	+	+
440	+	+	+	+	+
450	+	+	+	+	+
460	+	+	+	+	+
470	+	+	+	+	+
480	+	+	+	+	+
490	+	+	+	+	+
500	+	+	+	+	+
510	+	+	+	+	+
520	+	+	+	+	+
530	+	+	+	+	+
540	+	+	+	+	+
550	+	+	+	+	+
560	+	+	+	+	+
570	+	+	+	+	+
580	+	+	+	+	+
590	+	+	+	+	+
600	+	+	+	+	+
610	+	+	+	+	+
620	+	+	+	+	+
630	+	+	+	+	+
640	+	+	+	+	+
650	+	+	+	+	+
660	+	+	+	+	+
670	+	+	+	+	+
680	+	+	+	+	+
690	+	+	+	+	+
700	+	+	+	+	+
710	+	+	+	+	+
720	+	+	+	+	+
730	+	+	+	+	+
740	+	+	+	+	+
750	+	+	+	+	+
760	+	+	+	+	+
770	+	+	+	+	+
780	+	+	+	+	+
790	+	+	+	+	+
800	+	+	+	+	+
810	+	+	+	+	+
820	+	+	+	+	+
830	+	+	+	+	+
840	+	+	+	+	+
850	+	+	+	+	+
860	+	+	+	+	+
870	+	+	+	+	+
880	+	+	+	+	+
890	+	+	+	+	+
900	+	+	+	+	+
910	+	+	+	+	+
920	+	+	+	+	+
930	+	+	+	+	+
940	+	+	+	+	+
950	+	+	+	+	+
960	+	+	+	+	+
970	+	+	+	+	+
980	+	+	+	+	+
990	+	+	+	+	+
1000	+	+	+	+	+

$$(11) \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}, \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{y}} \right) = \frac{\partial L}{\partial y}, \quad \frac{d}{dt} \left(\frac{\partial L}{\partial \dot{z}} \right) = \frac{\partial L}{\partial z}$$

[illegible]

(15)

	190	200	210	220	230
70	↑	↑	↑	↑	↑
71	↑	↑	↑	↑	↑
72	↑	↑	↑	↑	↑
73	↑	↑	↑	↑	↑
74	↑	↑	↑	↑	↑
75	↑	↑	↑	↑	↑
76	↑	↑	↑	↑	↑
77	↑	↑	↑	↑	↑
78	↑	↑	↑	↑	↑
79	↑	↑	↑	↑	↑
80	↑	↑	↑	↑	↑
81	↑	↑	↑	↑	↑
82	↑	↑	↑	↑	↑
83	↑	↑	↑	↑	↑
84	↑	↑	↑	↑	↑
85	↑	↑	↑	↑	↑
86	↑	↑	↑	↑	↑
87	↑	↑	↑	↑	↑
88	↑	↑	↑	↑	↑
89	↑	↑	↑	↑	↑
90	↑	↑	↑	↑	↑
91	↑	↑	↑	↑	↑
92	↑	↑	↑	↑	↑
93	↑	↑	↑	↑	↑
94	↑	↑	↑	↑	↑
95	↑	↑	↑	↑	↑
96	↑	↑	↑	↑	↑
97	↑	↑	↑	↑	↑
98	↑	↑	↑	↑	↑
99	↑	↑	↑	↑	↑
100	↑	↑	↑	↑	↑
101	↑	↑	↑	↑	↑
102	↑	↑	↑	↑	↑
103	↑	↑	↑	↑	↑
104	↑	↑	↑	↑	↑
105	↑	↑	↑	↑	↑
106	↑	↑	↑	↑	↑
107	↑	↑	↑	↑	↑
108	↑	↑	↑	↑	↑
109	↑	↑	↑	↑	↑
110	↑	↑	↑	↑	↑
111	↑	↑	↑	↑	↑
112	↑	↑	↑	↑	↑
113	↑	↑	↑	↑	↑
114	↑	↑	↑	↑	↑
115	↑	↑	↑	↑	↑
116	↑	↑	↑	↑	↑
117	↑	↑	↑	↑	↑
118	↑	↑	↑	↑	↑
119	↑	↑	↑	↑	↑
120	↑	↑	↑	↑	↑
121	↑	↑	↑	↑	↑
122	↑	↑	↑	↑	↑
123	↑	↑	↑	↑	↑
124	↑	↑	↑	↑	↑
125	↑	↑	↑	↑	↑
126	↑	↑	↑	↑	↑
127	↑	↑	↑	↑	↑
128	↑	↑	↑	↑	↑
129	↑	↑	↑	↑	↑
130	↑	↑	↑	↑	↑
131	↑	↑	↑	↑	↑
132	↑	↑	↑	↑	↑
133	↑	↑	↑	↑	↑
134	↑	↑	↑	↑	↑
135	↑	↑	↑	↑	↑
136	↑	↑	↑	↑	↑
137	↑	↑	↑	↑	↑
138	↑	↑	↑	↑	↑
139	↑	↑	↑	↑	↑
140	↑	↑	↑	↑	↑
141	↑	↑	↑	↑	↑
142	↑	↑	↑	↑	↑
143	↑	↑	↑	↑	↑
144	↑	↑	↑	↑	↑
145	↑	↑	↑	↑	↑
146	↑	↑	↑	↑	↑
147	↑	↑	↑	↑	↑
148	↑	↑	↑	↑	↑
149	↑	↑	↑	↑	↑
150	↑	↑	↑	↑	↑









