

Cable and Anchorage Ratings (Table 5)



Table 5

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Horizontal Load Ratings for Kinetics Cable Assemblies and Anchorage Components

Using Kinetics Noise Control Provided Anchors or Thru Bolts

Load Ratings For Cable Assy's

Cable Size	Cable Ratings at Cable Angle (x) degrees from Horizontal			
	0	30	45	60
2 mm (G)	-	-	-	-
3 mm (G)	I	I	I	-
5 mm (G)	III	III	II	II
6 mm (G)	IV	IV	III	III
.12 in	II	II	II	I
.18 in	III	III	III	II
.25 in	IV	IV	IV	III
.38 in	V	V	IV	IV
.50 in	V	V	V	IV

Allowable Horizontal Force Class

	(lbs)	Class	(N)
	0	-	0
250	I	1120	
500	II	2240	
1000	III	4480	
2000	IV	8960	
5000	V	22400	
10000	VI	44800	

(G) indicates the rating using Gripple type cable clips

1 Bolt Anchor Ratings at Cable Angle KSCUA Clip to Structure, (x) degrees from Horizontal

Orientation 1	Anchor	Cable Ratings at Cable Angle (x) degrees from Horizontal			
		0	30	45	60
KSCU-2 (2mm)	0.250	I	-	-	-
	0.375	I	-	-	-
KSCU-3 (3mm)	0.250	II	I	-	-
	0.375	II	I	I	I
KSCU-4 (5mm)	0.375	III	II	II	I
	0.500	III	III	II	I
KSCU-5 (6mm)	0.375	III	II	II	I
	0.500	IV	III	II	I
Orientation 2					
KSCU-2 (2mm)	0.250	-	-	-	-
	0.375	I	-	-	-
KSCU-3 (3mm)	0.250	-	-	-	-
	0.375	I	I	I	I
KSCU-4 (5mm)	0.375	I	I	I	I
	0.500	I	I	I	I
KSCU-5 (6mm)	0.375	I	I	I	I
	0.500	I	I	I	I
Anc / PN					
CCA Orientation 1 (Vert Anc)	0.625 (08)	III	IV	II	I
	0.75 (08)	III	IV	III	II
	0.875 (08)	IV	V	IV	II
CCA Orientation 2 (Horiz Anc)	0.625 (08)	II	II	II	III
	0.75 (08)	II	III	III	III
	0.875 (08)	III	III	IV	IV

(1) Grade 2 Thru Bolt Ratings at Cable Angle KSCUA Clip to Structure, (x) degrees from Horizontal

Orientation 1	Anchor	Cable Ratings at Cable Angle (x) degrees from Horizontal			
		0	30	45	60
KSCU-2 (2mm)	0.250	I	-	-	-
	0.375	I	-	-	-
KSCU-3 (3mm)	0.250	II	I	I	I
	0.375	II	I	I	I
KSCU-4 (5mm)	0.375	III	III	II	II
	0.500	III	III	II	II
KSCU-5 (6mm)	0.375	IV	IV	III	III
	0.500	IV	IV	III	III
Orientation 2					
KSCU-2 (2mm)	0.250	I	-	-	-
	0.375	I	-	-	-
KSCU-3 (3mm)	0.250	II	I	I	I
	0.375	II	I	I	I
KSCU-4 (5mm)	0.375	III	III	II	II
	0.500	III	III	II	II
KSCU-5 (6mm)	0.375	IV	IV	III	III
	0.500	IV	IV	III	III
Bolt-Grade (PN)					
CCA Orientation 1 (Vert Bolt)	0.625-Gr 2 (08)	IV	V	IV	III
	0.75-Gr 2 (08)	V	V	V	IV
	0.875-Gr 5 (08)	V	V	V	V
CCA Orientation 2 (Horiz Bolt)	0.625-Gr 2 (08)	IV	IV	IV	IV
	0.75-Gr 2 (08)	IV	V	V	V
	0.875-Gr 5 (08)	IV	V	V	V

Ratings for Multiple Bolt Anchorage Plates used on KSCA and CCA Clips

2 Bolt Anchor Ratings at Cable Angle (x) degrees from Horizontal

Orientation 1	Anchor	Cable Ratings at Cable Angle (x) degrees from Horizontal			
		0	30	45	60
KSCA Clip with Ancs	0.250	III	II	II	I
	0.375	IV	III	III	II
	0.500	IV	IV	III	III
KSCA Clip with Ancs Orientation 2	0.250	II	II	II	I
	0.375	III	III	III	III
	0.500	IV	IV	III	III

2 Bolt Anchor Ratings at Cable Angle (x) degrees from Horizontal

Orientation 1	Anchor	Cable Ratings at Cable Angle (x) degrees from Horizontal			
		0	30	45	60
CCA Clip with Ancs	0.250	III	II	II	I
	0.375	IV	III	III	II
	0.500	IV	IV	III	III
CCA Clip with Ancs Orientation 2	0.250	II	II	II	I
	0.375	III	III	III	III
	0.500	IV	IV	III	III

4 Bolt Anchor Ratings at Cable Angle (x) degrees from Horizontal

Orientation 1	Anchor	Cable Ratings at Cable Angle (x) degrees from Horizontal			
		0	30	45	60
KSCA Clip with Ancs	0.250	III	IV	III	III
	0.375	III	IV	IV	IV
	0.500	III	IV	IV	IV
KSCA Clip with Ancs Orientation 2	0.250	III	III	III	III
	0.375	III	IV	IV	IV
	0.500	III	IV	IV	IV

4 Bolt Anchor Ratings at Cable Angle (x) degrees from Horizontal

Orientation 1	Anchor	Cable Ratings at Cable Angle (x) degrees from Horizontal			
		0	30	45	60
CCA Clip with Ancs	0.250	IV	III	III	II
	0.375	V	IV	IV	III
	0.500	V	V	IV	IV
CCA Clip with Ancs Orientation 2	0.250	III	III	III	II
	0.375	IV	IV	IV	IV
	0.500	IV	IV	IV	IV

Notes: All Anchor capacities are based on ICBO allowables, some sizes may have to be increased if embedded into the tensile side of a structural member.
Capacities Listed are LRFD [Strength] Based

KINETICS™ Seismic Design Manual

CABLE AND ANCHORAGE RATINGS (TABLES 5 AND 5a)



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D4.8



Cable and Anchorage Ratings (Table 5A)



Table 5A

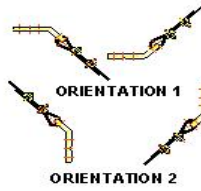
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6300 IRELAN PLACE
DUBLIN, OHIO 43017
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Horizontal Load Ratings for Kinetics Cable Assemblies and Anchorage Components

Using Kinetics Noise Control Provided Anchors or Thru Bolts

Load Ratings For Cable Assy's
Cable Ratings at Cable Angle (x) degrees from Horizontal

Cable Size	0	30	45	60
2 mm (G)	250	217	177	125
3 mm (G)	500	433	354	250
5 mm (G)	1238	1072	875	619
6 mm (G)	2750	2382	1945	1375
.12 in	954	826	674	477
.18 in	1635	1416	1156	817
.25 in	2958	2562	2092	1479
.38 in	5916	5124	4183	2958
.50 in	8500	7361	6011	4250



Allowable Horizontal Force Class

(lbs)	Class
0	-
250	I
500	II
1000	III
2000	IV
5000	V
10000	VI

(G) indicates the rating using Gripple type cable clips

1 Bolt Anchor Ratings at Cable Angle
KSUA Clip to Structure, (x) degrees from Horizontal

Orientation 1	Anchor	0	30	45	60
KSCU-2 (2mm)	0.250	250	217	177	125
	0.375	250	217	177	125
KSCU-3 (3mm)	0.250	500	364	237	145
	0.375	500	433	354	250
KSCU-4 (5mm)	0.375	1238	805	511	308
	0.500	1238	1072	771	460
KSCU-5 (6mm)	0.375	1900	805	511	308
	0.500	2750	1238	771	460
Orientation 2					
KSCU-2 (2mm)	0.250	131	129	127	121
	0.375	250	217	177	125
KSCU-3 (3mm)	0.250	131	129	127	121
	0.375	275	271	269	250
KSCU-4 (5mm)	0.375	275	271	269	260
	0.500	408	405	402	390
KSCU-5 (6mm)	0.375	275	271	269	260
	0.500	408	405	402	390
Anc / PN					
CCA Orientation 1 (Vert Anc)	0.625 (08)	1430	2240	955	460
	0.75 (08)	1890	3115	1235	585
	0.875 (08)	2250	5350	2000	925
CCA Orientation 2 (Horiz Anc)	0.625 (08)	635	795	955	1295
	0.75 (08)	805	1015	1235	1800
	0.875 (08)	1225	1600	2000	3090

(1) SAE Grade Thru Bolt Ratings at Cable Angle
KSUA Clip to Structure, (x) degrees from Horizontal

Orientation 1	Anchor	0	30	45	60
KSCU-2 (2mm)	0.250	250	217	177	125
	0.375	250	217	177	125
KSCU-3 (3mm)	0.250	500	433	354	250
	0.375	500	433	354	250
KSCU-4 (5mm)	0.375	1238	1072	875	619
	0.500	1238	1072	875	619
KSCU-5 (6mm)	0.375	2750	2382	1945	1300
	0.500	2750	2382	1945	1300
Orientation 2					
KSCU-2 (2mm)	0.250	250	217	177	125
	0.375	250	217	177	125
KSCU-3 (3mm)	0.250	500	433	354	250
	0.375	500	433	354	250
KSCU-4 (5mm)	0.375	1238	1072	875	619
	0.500	1238	1072	875	619
KSCU-5 (6mm)	0.375	2426	2252	1945	1375
	0.500	2426	2252	1945	1375
Bolt-Grade (PN)					
CCA Orientation 1 (Vert Bolt)	0.625-Gr 2 (08)	3375	6250	3900	1995
	0.75-Gr 2 (08)	6250	6250	5765	2950
	0.875-Gr 5 (08)	6250	6250	6250	6250
CCA Orientation 2 (Horiz Bolt)	0.625-Gr 2 (08)	2790	3460	3900	3925
	0.75-Gr 2 (08)	3375	5110	5765	5490
	0.875-Gr 5 (08)	3375	6250	6250	6250

Ratings for Multiple Bolt Anchorage Plates used on KSUA and CCA Clips

2 Bolt Anchor Ratings at Cable Angle
(x) degrees from Horizontal

Anchor	0	30	45	60	
KSUA Clip with Ancs Orientation 1	0.250	1066	770	575	382
	0.375	2714	1790	1280	830
	0.500	4718	2860	1985	1255
KSUA Clip with Ancs Orientation 2	0.250	748	662	575	445
	0.375	1570	1430	1280	1035
	0.500	2330	2175	1985	1650

2 Bolt Anchor Ratings at Cable Angle
(x) degrees from Horizontal

Anchor	0	30	45	60	
CCA Clip with Ancs Orientation 1	0.250	1066	770	575	382
	0.375	2714	1790	1280	830
	0.500	4718	2860	1985	1255
CCA Clip with Ancs Orientation 2	0.250	748	662	575	445
	0.375	1570	1430	1280	1035
	0.500	2330	2175	1985	1650

4 Bolt Anchor Ratings at Cable Angle
(x) degrees from Horizontal

Anchor	0	30	45	60	
KSUA Clip with Ancs Orientation 1	0.250	2132	1540	1150	764
	0.375	2426	2252	2560	1660
	0.500	2426	2252	3970	1945
KSUA Clip with Ancs Orientation 2	0.250	1496	1324	1150	890
	0.375	2426	2252	2560	1945
	0.500	2426	2252	3970	1945

4 Bolt Anchor Ratings at Cable Angle
(x) degrees from Horizontal

Anchor	0	30	45	60	
CCA Clip with Ancs Orientation 1	0.250	2132	1540	1150	764
	0.375	5428	3580	2560	1660
	0.500	9436	5720	3970	2510
CCA Clip with Ancs Orientation 2	0.250	1496	1324	1150	890
	0.375	3140	2860	2560	2070
	0.500	4660	4350	3970	3300

Notes: All Anchor capacities are based on ICBO allowables, some sizes may have to be increased if embedded into the tensile side of a structural member.
Capacities Listed are LRFD [Strength] Based

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