



TREFOIL

CABLE CLEAT

MULTIPLE CABLE TYPE



Features and Benefits

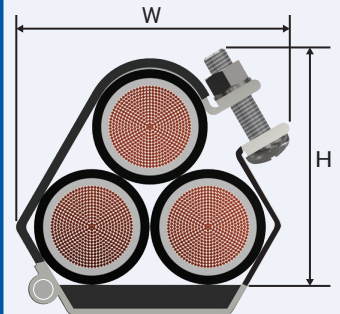
- Provides securing, support and retention of cables in cable ladder, tray or strut systems.
- Designed to hold cables together in a trefoil arrangement and to provide resistance to electromechanical forces during short circuit conditions. Suitable for use with LV and HV cables.
- Manufactured from corrosion resistant non-magnetic 316L Stainless Steel.
- Complete with LSOH polymeric liners to protect cable sheaths during installation and movement due to electromechanical forces during short circuits.
- Open hinge system allows for easy placement of cables into the cleat prior to tightening.
- Accessible tightening bolt allows for easy tightening with a single tool.
- Wide range 13mm to 128mm.

Construction

Frame:	Corrosion resistant, non-magnetic 316L Stainless Steel
Cable resting base:	LSOH Halogen Free Plastic - Polymeric composite
Liner:	LSOH Halogen Free Plastic - Polymeric composite
Locking hardware:	M10 Bolt (316 Stainless Steel) and Nylon Locking Nut

Technical Specifications

Type:	Trefoil
Third party certified:	IEC 61914:2021
Resistance to mechanical forces	See table on page 2
Lateral load test:	Average 25kg
Axial load test:	Pass according to IEC 61914:2021
Impact resistance:	Very Heavy
Temperature range:	-40°C to 105°C
Needle flame test:	650°C for 30 sec
UV resistance test:	1,000 hrs



Standards and Certifications

Conformance:	Standard:	Certificate:
Marine DNV	IEC 61914	TAE00004C3



Product Code	Cable Range				Dimensions				Bottom Mounting Bolt	Torque Value Nm
	Min. Dia. mm	Min. Dia. in.	Max. Dia. mm	Max. Dia. in.	Height mm	Height in.	Width mm	Width in.		
CC-T1323	13.0	0.51	23.0	0.91	73.0	2.87	68.0	2.68	M10	14-20
CC-T2125	21.0	0.83	25.0	0.98	75.0	2.95	72.0	2.83	M10	14-20
CC-T2329	23.0	0.91	29.0	1.14	80.0	3.15	79.0	3.11	M10	14-20
CC-T2531	25.0	0.98	31.0	1.22	83.0	3.27	82.0	3.23	M10	14-20
CC-T2733	27.0	1.06	33.0	1.30	84.0	3.31	85.0	3.35	M10	14-20
CC-T2935	29.0	1.14	35.0	1.38	89.0	3.50	90.0	3.54	M10	14-20
CC-T3238	32.0	1.26	38.0	1.50	92.0	3.62	96.0	3.78	M10	14-20
CC-T3541	35.0	1.38	41.0	1.61	98.0	3.86	100.0	3.94	M10	14-20
CC-T3844	38.0	1.5	44.0	1.73	100.0	3.94	106.0	4.17	M10	14-20
CC-T4248	42.0	1.65	48.0	1.89	104.0	4.09	113.0	4.45	M10	14-20
CC-T4551	45.0	1.77	51.0	2.01	107.0	4.21	120.0	4.72	M10	14-20
CC-T4753	47.0	1.85	53.0	2.09	110.0	4.33	122.0	4.80	M10	14-20
CC-T4955	49.0	1.93	55.0	2.70	113.0	4.45	125.0	4.92	M10	14-20
CC-T5157	51.0	2.01	57.0	2.24	115.0	4.53	127.0	5.00	M10	14-20
CC-T5359	53.0	2.09	59.0	2.32	118.0	4.65	135.0	5.31	M10	14-20
CC-T5561	55.0	2.17	61.0	2.40	122.0	4.80	138.0	5.43	M10	14-20
CC-T5763	57.0	2.24	63.0	2.48	125.0	4.92	141.0	5.55	M10	14-20
CC-T5965	59.0	2.32	65.0	2.56	126.0	4.96	145.0	5.71	M10	14-20
CC-T6167	61.0	2.4	67.0	2.64	131.0	5.16	148.0	5.83	M10	14-20
CC-T6369	63.0	2.48	69.0	2.72	134.0	5.28	153.0	6.02	M10	14-20
CC-T6571	65.0	2.56	71.0	2.80	139.0	5.47	155.0	6.10	M10	14-20
CC-T6773	67.0	2.64	73.0	2.87	143.0	5.63	156.0	6.14	M10	14-20
CC-T6975	69.0	2.72	75.0	2.95	146.0	5.75	161.0	6.34	M10	14-20
CC-T7177	71.0	2.8	77.0	3.03	150.0	5.91	164.0	6.46	M10	14-20
CC-T7379	73.0	2.87	79.0	3.11	154.0	6.06	166.0	6.54	M10	14-20
CC-T7581	75.0	2.95	81.0	3.19	157.0	6.18	170.0	6.69	M10	14-20
CC-T7783	77.0	3.03	83.0	3.27	160.0	6.30	174.0	6.85	M10	14-20
CC-T7985	79.0	3.11	85.0	3.35	162.0	6.38	178.0	7.01	M10	14-20
CC-T8187	81.0	3.19	87.0	3.43	168.0	6.61	181.0	7.13	M10	14-20
CC-T8389	83.0	3.27	89.0	3.50	172.0	6.77	185.0	7.25	M10	14-20
CC-T8896	88.0	3.46	96.0	3.78	180.0	7.09	195.0	7.68	M10	14-20
CC-T96103	96.0	3.78	103.0	4.06	189.0	7.44	203.0	7.99	M10	14-20
CC-T103111	103.0	4.06	111.0	4.37	198.0	7.80	206.0	8.11	M10	14-20
CC-T111119	111.0	4.39	119.0	4.69	207.0	8.15	215.0	8.46	M10	14-20
CC-T119128	119.0	4.69	128.0	5.04	216.0	8.50	223.0	8.78	M10	14-20

All dimensions except Inches are in mm.

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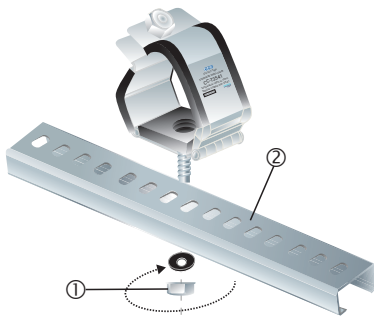
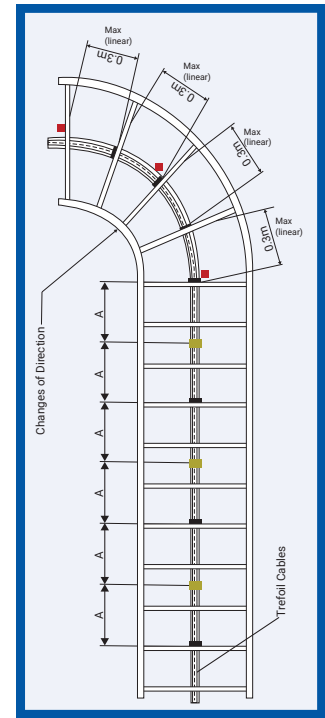
TREFOIL CABLE CLEAT

How to select cable cleats

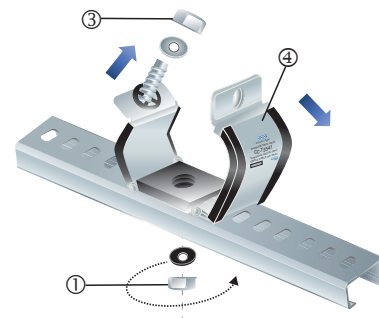
- IDENTIFY**
 - Which type of cable is being used. Single or multi-conductor?
 - What is the outer diameter of the cable?
 - What is the available short circuit current (RMS or Peak) of the cables?
 - If a ground wire is installed in the cleats, identify the outer diameter of the ground wire?
- THE SYSTEM**
 - What is the cable formation, single or trefoil?
 - What type of the cable tray is installed?

RESISTANCE TO MECHANICAL FORCES

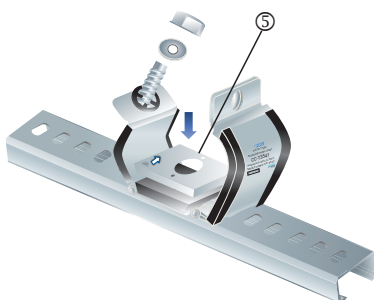
Max. Cable Cleat Spacing "A"		Cable diameter vs Peak Short Circuit Current (kA)																			
mm	in	23	25	27	29	31	33	35	37	39	41	43	45	47	49	51	53	55	57	59	61
225	8.859	179	187	194	203	209	216	220	229	234	240	246	250	255	261	266	271	276	281	286	291
300	11.81	155	163	168	174	181	187	192	198	203	209	214	215	220	225	230	235	239	244	248	252
450	17.72	128	133	137	144	148	152	157	161	165	170	174	178	180	184	189	192	195	199	202	206
600	23.62	110	115	119	124	128	132	135	139	143	148	150	153	156	160	163	166	169	172	175	178
675	26.57	104	108	113	117	121	124	128	132	135	139	143	147	147	150	154	156	159	162	165	168
900	35.43	89	93	97	102	105	108	110	115	117	121	124	127	128	130	133	135	138	140	143	145



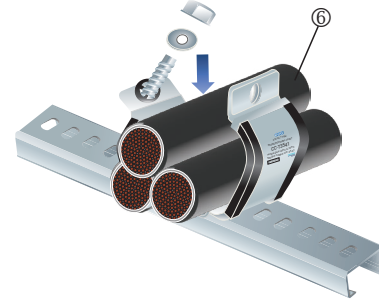
- Unscrew the bottom mounting nut ①. Place the Cable Cleat on the mount plate ②.



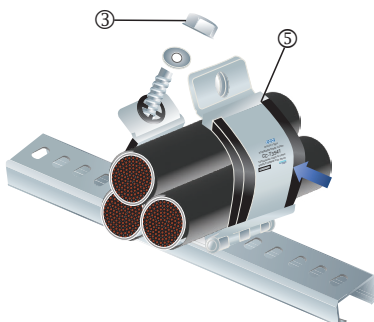
- Tighten the bottom mounting nut ①. Unscrew the top nut ③. Open Up cable cleat arm ④.



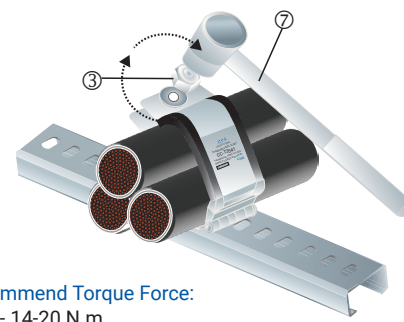
- Place additional pads ⑤ according to cable outer diameter; refer to the arrows on the pads ⑤ for assembly orientation.



- Place cables ⑥ into cleat.



- Close the cable cleat arm ⑤. Pre-assemble the top nut ③.



Recommend Torque Force:
M10 - 14-20 N.m

- Tighten the top nut ③ to the installation torque using a torque wrench ⑦.