

Review the submittal package, read all details and conditions on site prior to performing any work on site.

Follow submittal

**Cable Restraint Kit includes the following items**

• 2 sets of fully assembled 10' long Certified Pre-Stretched 7x19 Galvanized Aircraft Cable Restrained Systems. One end is Factory Swaged and Pre-Assembled with Attachment Bracket and wire rope thimble, the other end is assembled with ISOTECH Cable Locking Mechanism (ISOCLIP), wire rope thimble and retrofit bracket for attachment to MEP Component. (Fig. 1)

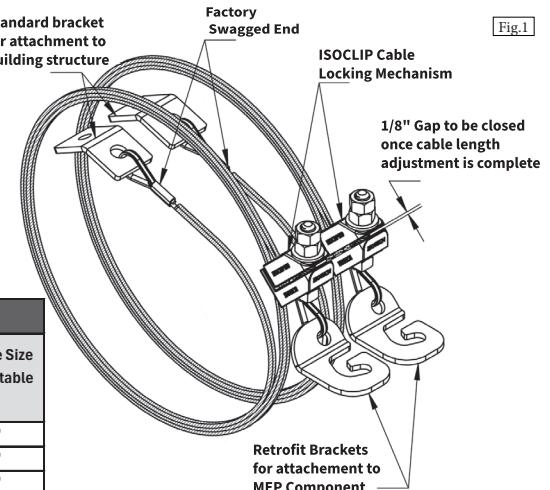
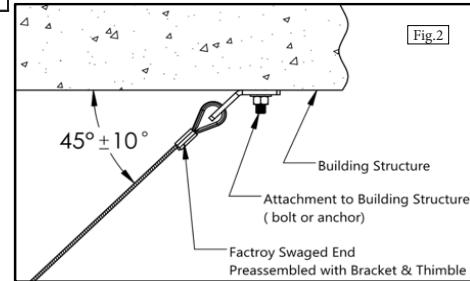


Table 1: ICRS-RA & RAH ADJUSTABLE CABLE RESTRAINT SYSTEM WITH RETROFIT BRACKET

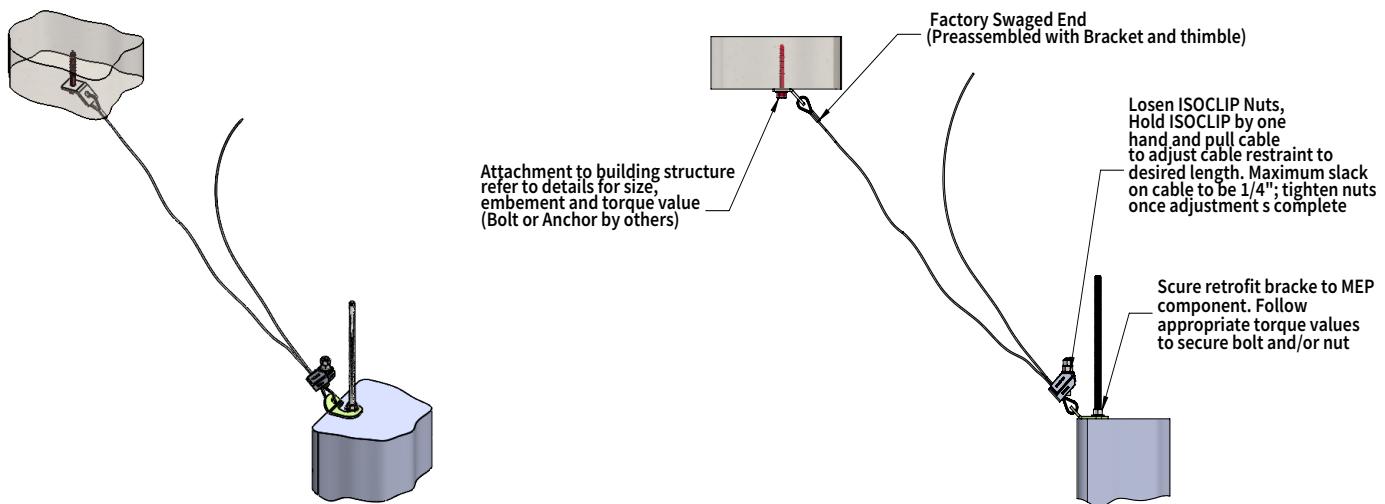
Model	Max. Rating				Bracket Model		Bracket Hole Size for Factory Swaged End	Bolt Hole Size for adjustable End
	LRFD		ASD					
	lbs	kN	lbs	kN	Factory Swaged End	Other End		
ICRS-600RA	691	3.1	460	2.0	332 Anch. Bracket	Retrofit Bracket 500	7/16"	1/2"
ICRS-600RAH	824	3.7	549	2.4	332 Anch. Bracket	Retrofit Bracket 600	7/16"	1/2"
ICRS-1000RA	1115	5.0	742	3.3	180 Anch. Bracket	Retrofit Bracket 1000	9/16"	5/8"
ICRS-1000RAH	1098	4.9	731	3.3	180 Anch. Bracket	Retrofit Bracket 1100	9/16"	5/8"

1. Cable Restraint must be installed at  $45^\circ \pm 10^\circ$  to secure Equipment Pipe or Duct to building structure (Fig. 2)

2. Secure Cable restraint factory swaged end to building structure with bolt or seismically rated concrete anchor. Review submittal package for connection details, including bolt/ anchor type, size, embedment, etc. Follow anchor manufacturer installation instruction for torque value and proper anchor installation.



3. Loosen ISOCLIP Nuts, hold ISOCLIP by one hand and pull cable to get to the desired length. Connect and secure attachment bracket to equipment, pipe or duct – review submittal package for connection details, including bolt size and grade – and follow steps shown on the next page for proper attachment of cable to attachment bracket:



PROJECT INFORMATION		EQUIPMENT INFORMATION		Canada Location	USA Location
Customer:		Type:		8 High Meadow Pl. North York, M9L 2Z5 ON, Canada	3021 E Coronado St. Anaheim, 92608 CA, U.S.A
Project:		Qty Required:			
Drawing No:		Operating Weight:			
Notes:				T: (905) 856-5001 www.isotechindustries.com	T: (949) 788-2930

4. Follow Table 2, see below, torque ISOCLIP both nuts to values on the table while holding ISOCLIP by hand. Maximum allowable slack on cable is  $\frac{1}{4}$ ". Loosen nut and pull cable to remove excessive slack on cable. Leave minimum 2" turn back from ISOCLIP and cut extra cable.

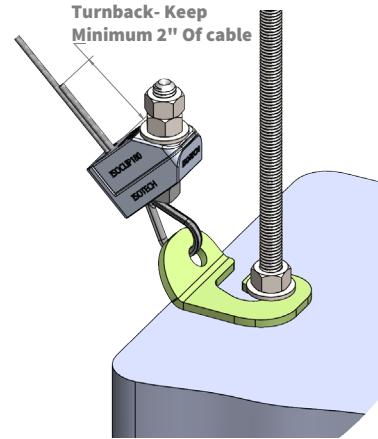
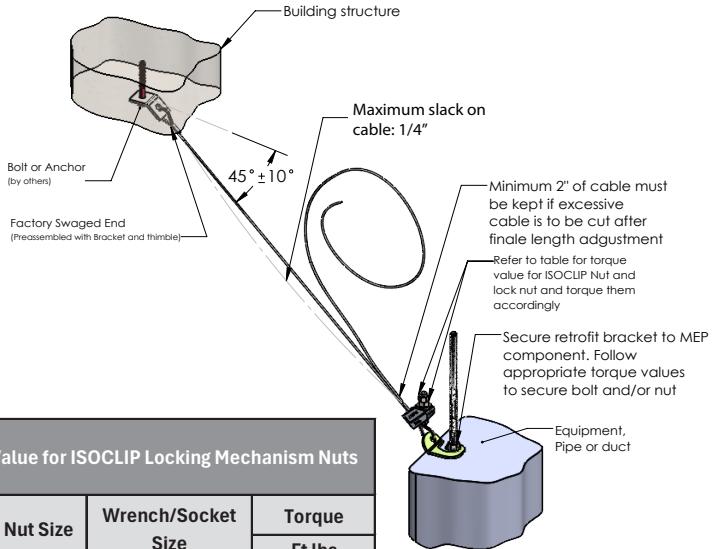


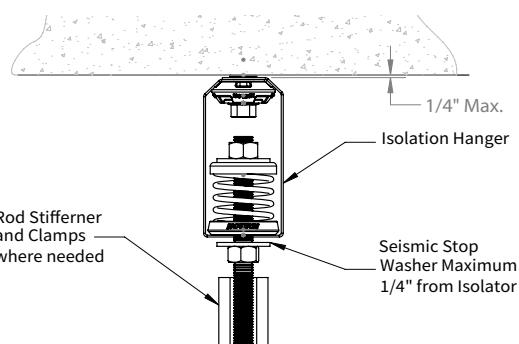
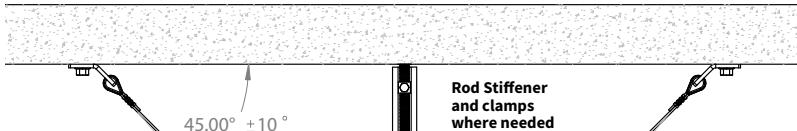
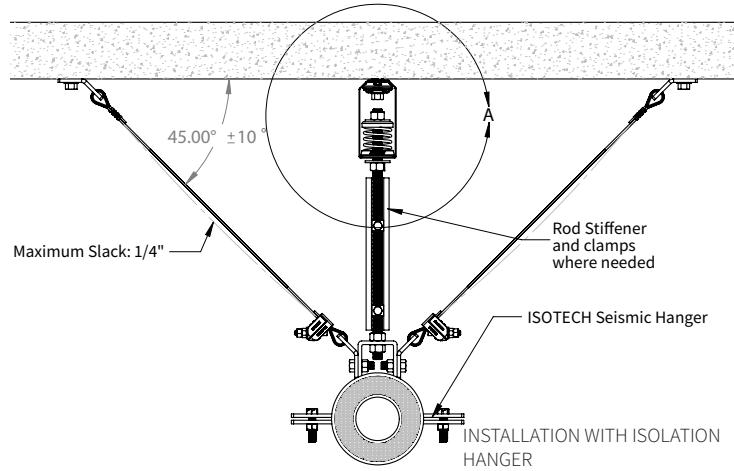
Table 2 - Torque Value for ISOCLIP Locking Mechanism Nuts

Model	Nut Size	Wrench/Socket Size	Torque
			Ft lbs
ICRS-600RA	3/8"	9/16"	25
ICRS-600RAH	3/8"	9/16"	25
ICRS-1000RA	1/2"	3/4"	50
ICRS-1000RAH	1/2"	3/4"	50

### Cable Restraint Installation:

#### Note:

For installation with isolation hanger, the maximum gap allowed between isolation hanger and building structure is  $\frac{1}{4}$ " as shown. Stop washer must be installed  $\frac{1}{4}$ " from isolation hanger, as shown, to prevent upward movement



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