

# nVent CADDY Sway Bracing Cable, Spool and Kits

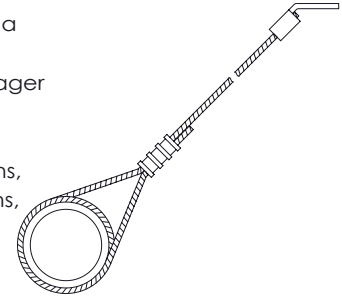
## Certified Minimum Break Strength

The Seismic Wire Rope/Cable, contained in this shipment, has been pre-stretched according to the requirements of the ASCE®-19 Standard for "Structural Applications of Steel Cables for Buildings". The bracing assemblies contained in this shipment consist of the color-coded galvanized (zinc coated) or stainless steel seismic wire rope/cable, fixed ends (if any) which are factory attached thereto and accompanying field connection sleeves (ferrules) and fittings. These components are hereby certified to maintain the referenced minimum breaking strengths, when properly installed, utilizing a properly maintained swaging tool (nVent part number CSB3346SB, 402209, CSB12SBHS, 404461, CSB48, 402212, CSBBS121836, 402534, CSBHS02 or 402214), as further detailed herein and in the swager installation instructions.

Note: For specific project installation information on, or application of, allowable breaking strengths, horizontal earthquake load resistance, brace locations, as well as fastener details, related strengths, applied load modulus of elasticity and % of elongation, contact nVent technical support.

Sway braces are intended to be installed in accordance with NFPA® -13 and the manufacturer's installation instructions.

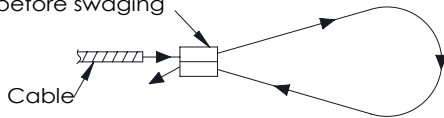
| Brace Size | Cable Color | Certified Minimum Break Strength |        |
|------------|-------------|----------------------------------|--------|
|            |             | Lbs                              | Kg     |
| #12        | Red         | 920                              | 417.3  |
| #18        | White       | 1700                             | 771.1  |
| #36        | Blue        | 4200                             | 1905.1 |
| #48        | Yellow      | 7000                             | 3175.1 |



## Section 1: Cable, Spools

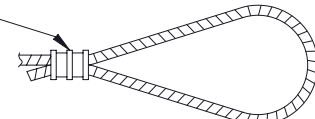
| Part Number | Article Number | Description                                                   | Cable Color | Brace Size | Cable Diameter |     | Sleeve Part Number | Sleeve Article Number |
|-------------|----------------|---------------------------------------------------------------|-------------|------------|----------------|-----|--------------------|-----------------------|
|             |                |                                                               |             |            | inch           | mm  |                    |                       |
| CSB12CBL    | 402190         | 250 ft of cable provided on a spool (sleeves sold separately) | Red         | #12        | 3/32           | 2.4 | CSB12SLVB          | 402194                |
| CSB18CBL    | 402191         |                                                               | White       | #18        | 1/8            | 3.2 | CSB18SLVB          | 402195                |
| CSB36CBL    | 402192         |                                                               | Blue        | #36        | 3/16           | 4.8 | CSB36SLVB          | 402196                |
| CSB48CBL    | 402193         |                                                               | Yellow      | #48        | 1/4            | 6.4 | CSB48SLVB          | 402197                |
| CSB12CBLSS  | 402510         | 250 ft of cable provided on a spool (sleeves sold separately) | SS          | #12        | 3/32           | 2.4 | CSB12SLVBSS        | 402514                |
| CSB18CBLSS  | 402511         |                                                               | SS          | #18        | 1/8            | 3.2 | CSB18SLVBSS        | 402515                |
| CSB36CBLSS  | 402512         |                                                               | SS          | #36        | 3/16           | 4.8 | CSB36SLVBSS        | 402516                |
| CSB48CBLSS  | 402513         |                                                               | SS          | #48        | 1/4            | 6.4 | CSB48SLVBSS        | 402517                |

Sleeve (ferrule)  
before swaging



Step 1 - Insert cable through a sleeve (ferrule), and then back through the sleeve (ferrule) to create a loop.

Sleeve (ferrule)  
after swaging



Step 2 - The sleeve (ferrule) has to be swaged by using a swaging tool (CSB3346SB, CSB13SBHS, CSBBS121836, CSB48 or CSBHS02). Refer to the tool manufacturers instructions for the number of swages needed per cable size.

Note: See page 4 for typical field connections to uninsulated pipe and for typical field connections to structure.

### WARNING:

- nVent products shall be installed and used only as indicated in nVent product instruction sheets and training materials. Instruction sheets are available at [www.nVent.com](http://www.nVent.com) and from your nVent customer service representative.
- nVent products must never be used for a purpose other than the purpose for which they were designed or in a manner that exceeds specified load ratings.
- All instructions must be completely followed to ensure proper and safe installation and performance.
- Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and/or death, and void your warranty.
- Products that are manufactured using spring steel components shall be used only in a non-corrosive indoor environment.
- All pipe supports, hangers, intermediate components and structural attachments must ONLY be used as described herein and are NEVER to be used for any other purpose.

NOTE: All load ratings are for static conditions and do not account for dynamic loading such as wind, water or seismic loads, unless otherwise noted.

The customer is responsible for:

- Conformance to all governing codes.
- The integrity of structures to which the products are attached, including their capability of safely accepting the loads imposed, as evaluated by a qualified engineer.
- Using appropriate industry standard hardware as noted above.

### SAFETY INSTRUCTIONS:

All governing codes and regulations and those required by the job site must be observed. Always use appropriate safety equipment such as eye protection, hard hat, and gloves as appropriate to the application.

nVent, nVent CADDY, nVent ERICO Cadweld, nVent ERICO Critec, nVent ERICO, nVent ERIFLEX, and nVent LENTON are owned by nVent or its global affiliates. All other trademarks are the property of their respective owners. nVent reserves the right to change specifications without prior notice.

TECHNICAL SUPPORT:  
[www.nVent.com](http://www.nVent.com)

CFS432\_F

1 OF 4

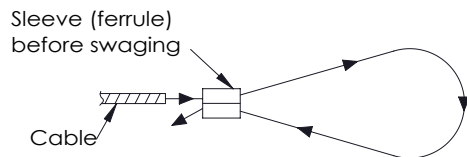
© 2010 - 2018 nVent All Rights Reserved



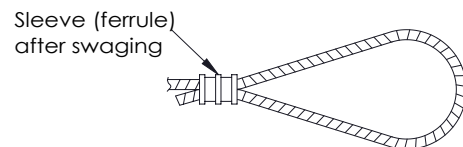
## Section 2: Cable, Kit with Universal Restraint Clip

| Part Number     | Article Number | Description                                                                                                                                                                                                                               | Cable Color | Brace Size | Cable Diameter |     | *Cable Length |       |
|-----------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|----------------|-----|---------------|-------|
|                 |                |                                                                                                                                                                                                                                           |             |            | inch           | mm  | feet          | meter |
| CSB2W12URC38L10 | -              | Kit includes the following: 2 each cables that have a length given in the "Cable Length" column. 2 each URC clips attached to one end of each cable. URC clip is to be used with 3/8" or M10 fastener. 2 each of the appropriate sleeves. | Red         | #12        | 3/32           | 2.4 | 10            | 3.0   |
| CSB2W12URC38L20 | -              |                                                                                                                                                                                                                                           | Red         | #12        | 3/32           | 2.4 | 20            | 6.1   |
| CSB2W18URC38L10 | -              |                                                                                                                                                                                                                                           | White       | #18        | 1/8            | 3.2 | 10            | 3.0   |
| CSB2W18URC38L20 | -              |                                                                                                                                                                                                                                           | White       | #18        | 1/8            | 3.2 | 20            | 6.1   |
| CSB2W12URC12L10 | -              | Kit includes the following: 2 each cables that have a length given in the "Cable Length" column. 2 each URC clips attached to one end of each cable. URC clip is to be used with 1/2" or M12 fastener. 2 each of the appropriate sleeves. | Red         | #12        | 3/32           | 2.4 | 10            | 3.0   |
| CSB2W12URC12L20 | -              |                                                                                                                                                                                                                                           | Red         | #12        | 3/32           | 2.4 | 20            | 6.1   |
| CSB2W18URC12L10 | -              |                                                                                                                                                                                                                                           | White       | #18        | 1/8            | 3.2 | 10            | 3.0   |
| CSB2W18URC12L20 | -              |                                                                                                                                                                                                                                           | White       | #18        | 1/8            | 3.2 | 20            | 6.1   |
| CSB2W18URC12L10 | -              |                                                                                                                                                                                                                                           | White       | #18        | 1/8            | 3.2 | 10            | 3.0   |
| CSB2W36URC12L10 | -              |                                                                                                                                                                                                                                           | Blue        | #36        | 3/16           | 4.8 | 10            | 3.0   |
| CSB2W36URC12L20 | -              |                                                                                                                                                                                                                                           | Blue        | #36        | 3/16           | 4.8 | 20            | 6.1   |
| CSB2W48URC12L10 | -              |                                                                                                                                                                                                                                           | Yellow      | #48        | 1/4            | 6.4 | 10            | 3.0   |
| CSB2W48URC12L20 | -              |                                                                                                                                                                                                                                           | Yellow      | #48        | 1/4            | 6.4 | 20            | 6.1   |
| CSB2W36URC58L10 | -              | Kit includes the following: 2 each cables that have a length given in the "Cable Length" column. 2 each URC clips attached to one end of each cable. URC clip is to be used with 5/8" or M16 fastener. 2 each of the appropriate sleeves. | Blue        | #36        | 3/16           | 4.8 | 10            | 3.0   |
| CSB2W36URC58L20 | -              |                                                                                                                                                                                                                                           | Blue        | #36        | 3/16           | 4.8 | 20            | 6.1   |
| CSB2W48URC58L10 | -              |                                                                                                                                                                                                                                           | Yellow      | #48        | 1/4            | 6.4 | 10            | 3.0   |
| CSB2W48URC58L20 | -              |                                                                                                                                                                                                                                           | Yellow      | #48        | 1/4            | 6.4 | 20            | 6.1   |
| CSB4W12URC38L05 | -              | Description at top with 4 URC, sleeves and cables.                                                                                                                                                                                        | Red         | #12        | 3/32           | 2.4 | 5             | 1.5   |

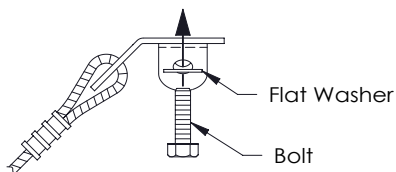
\* The actual length of cable provided is the length given in the chart plus an additional 4ft (1.2 m).



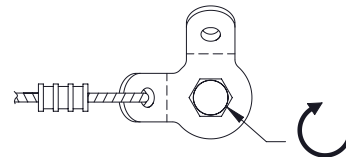
Step 1 - Insert cable through a sleeve (ferrule), and then back through the sleeve (ferrule) to create a loop.



Step 2 - The sleeve (ferrule) has to be swaged by using a swaging tool (CSB3346SB, CSB12SBHS, CSB48, CSBBS121836 or CSBHS02). Refer to the tool manufacturers instructions for the number of swages needed per cable size.



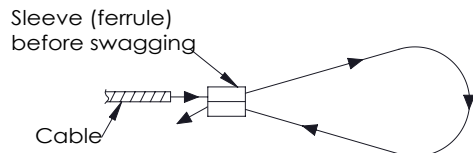
Step 3 - Insert fastener with washer through the fastener hole and tighten to the structure.



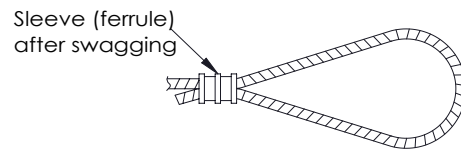
Note: See page 4 for typical field connections to uninsulated pipe and for typical field connection:

## Section 3: Cable, Kit (without end fittings)

| Part Number | Article Number | Description                                                                                                                                      | Cable Color | Brace Size | Cable Diameter |     | *Cable Length |       |
|-------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------|-------------|------------|----------------|-----|---------------|-------|
|             |                |                                                                                                                                                  |             |            | inch           | mm  | feet          | meter |
| CSB12B00L10 | 402233         | Kit includes the following:<br>2 each cables cut to the useable length given in the "Cable Length" column.<br>4 each of the appropriate sleeves. | Red         | #12        | 3/32           | 2.4 | 10            | 3.0   |
| CSB18B00L10 | 402234         |                                                                                                                                                  | White       | #18        | 1/8            | 3.2 |               |       |



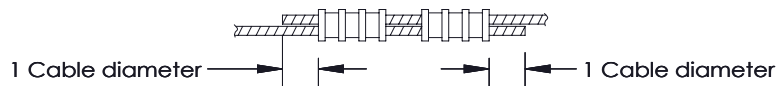
Step 1 - Insert cable through a sleeve (ferrule), and then back through the sleeve (ferrule) to create a loop.



Step 2 - The sleeve (ferrule) has to be swaged by using a swaging tool (CSB3346SB, CSB13SBHS or CSBHS02). Refer to the manufacturers instructions for the number of swages needed per cable size.

Note: See page 4 for typical field connections to uninsulated pipe and for typical field connections to structure.

## Field Connection to Extend Brace Length

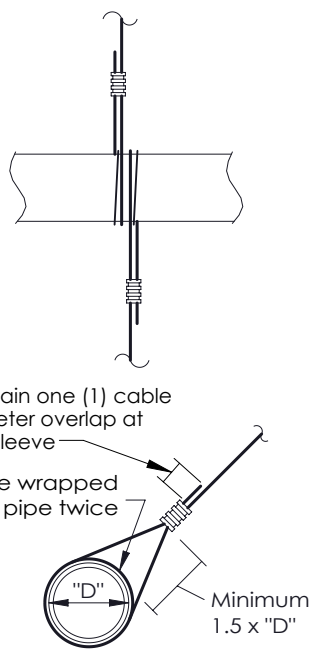


Step 1 - Slide two sleeves (ferrules) onto overlapping cables.

Step 2 - The sleeve (ferrule) has to be swaged by using a swaging tool (CSB3346SB, CSB13SBHS, CSB48 or CSBHS02). Refer to the manufacturers instructions for the number of swages needed per cable size.

Typical Field Connections to Uninsulated Pipe

2-Way Lateral

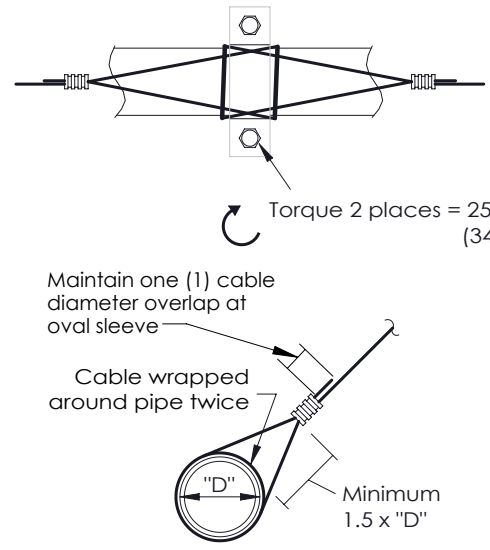


Maintain one (1) cable diameter overlap at oval sleeve

Cable wrapped around pipe twice

Minimum 1.5 x "D"

2-Way Longitudinal



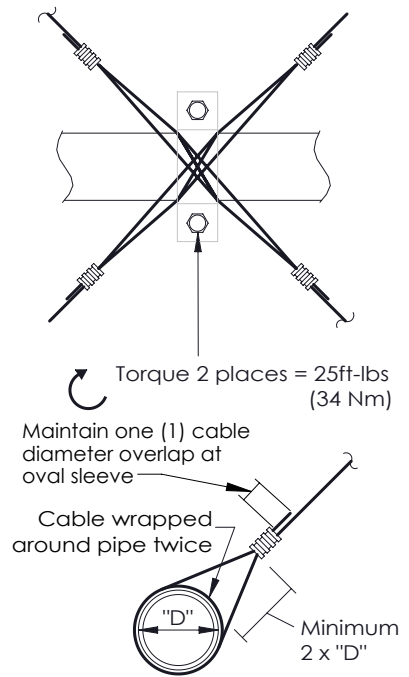
Torque 2 places = 25ft-lbs (34 Nm)

Maintain one (1) cable diameter overlap at oval sleeve

Cable wrapped around pipe twice

Minimum 1.5 x "D"

4-Way



Torque 2 places = 25ft-lbs (34 Nm)

Maintain one (1) cable diameter overlap at oval sleeve

Cable wrapped around pipe twice

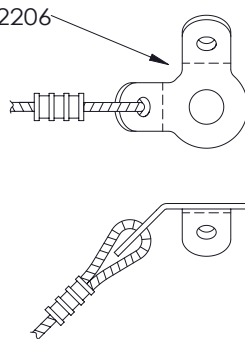
Minimum 2 x "D"

Note: Connect 2-way longitudinal and 4-way braces to piping at pipe clamps, grooved couplings, pipe fittings, or other devices at fixed locations on piping in a manner that will maintain the location of the connection in tension under load conditions.

Typical Field Connections to Structure

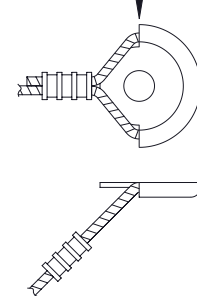
Part Number  
CSBURCXX  
CSBURCRXX  
CSBURC48XX

Article Number  
402198 - 402206

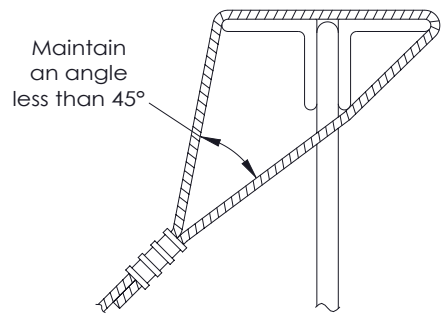


Part Number  
CSBNPCXX

Article Number  
402208



Looped Connection  
Cable can be looped around the top cord of a barjoist at the panel point



Maintain an angle less than 45°