

**SUBMITTAL RECORD**

**JOB** \_\_\_\_\_  
**LOCATION** \_\_\_\_\_  
**SUBMITTED TO** \_\_\_\_\_  
**SUBMITTAL PREPARED BY** \_\_\_\_\_  
**APPROVED BY** \_\_\_\_\_  
**DATE** \_\_\_\_\_

**DESCRIPTION**

Aviation grade galvanized wire rope supplied by Duro Dyne is manufactured to exacting standards and statistically tested to verify stated breaking strengths. Duro Dyne WC2-CL6, WC3-CL12 and WC4-CL18 wire ropes utilize standard 7x7 construction. WC8-CL25 and WC6-CL23 wire ropes have 7x19 construction. Only use wire rope supplied by Duro Dyne with Dyna-Tite cable locks to ensure maximum safety and integrity of the installation.

**ORDERING INFORMATION**

Item #	Code	Description	Safe Working Load**	Packaging
30208	WC8-CL25	WC8-25 Wire Rope for use with CL25-WC8 Cable Lock	50-1,100 lbs. (25-500 kg)	250 ft./roll
30206	WC6-CL23	WC6-23 Wire Rope for use with CL23-WC6 Cable Lock	50-640 lbs. (25-291 kg)	250 ft./roll
30204	WC4-CL18	WC4-18 Wire Rope for use with CL18-WC4 Cable Lock	25-225 lbs. (12-102 kg)	500 ft./roll
30202	WC3-CL12	WC3-12 Wire Rope for use with CL12-WC3 Cable Lock	25-150 lbs. (12-68 kg)	500 ft./roll
30200	WC2-CL6	WC2-6 Wire Rope for use with CL6-WC2 Cable Lock	10-75 lbs. (5-34 kg)	500 ft./roll

\*Safe Working Loads are based on a 5:1 Safety Factor.

**+Hanging at angles will reduce the Safe Working Loads. Please see our 'Effects of Hanging at Angles' table on our website at: [www.durodyne.com/DTTesting.php](http://www.durodyne.com/DTTesting.php)**

**WARNINGS**

- ALWAYS CONFIRM ENGAGEMENT OF CABLE LOCK ON WIRE BEFORE APPLYING THE LOAD:** By pushing the adjustment pin in the opposite direction of the arrows on the cable lock and then pulling the cable also in the opposite direction of the arrows on the cable lock.
- PULL ADJUSTMENT PIN BACK AND PASS WIRE ROPE THROUGH DYNA-TITE CABLE LOCK:** Failure to pull adjustment pin first may cause damage to serrated teeth and reduce holding capacity.
- TO ENSURE HANGING SYSTEM INTEGRITY AND SAFETY:** Use only Duro Dyne wire rope.
- DO NOT EXCEED THE WORKING LOAD LIMIT (WLL) OF THE CABLE LOCK:** Each product is load rated and incorporates a minimum safety factor of 5:1. This WLL takes into account the specification criteria of the Dyna-Tite Cable Lock and the wire rope.
- DO NOT USE ON COATED WIRE ROPE:** It is important to maintain the metal to metal contact between the locking pawls in the Dyna-Tite and the wire rope.
- DO NOT APPLY PAINT OR OTHER COATING:** to any part of the assembly as these may impair the free movement of the locking pawls inside the Dyna-Tite Cable Lock.
- DO NOT APPLY LUBRICANT:** to any part of the assembly as this will alter the surface nature of the wire rope and attract dirt and debris.
- DO NOT USE FOR LIFTING:** (Under Hook slings) This product is designed for static load applications only.
- KEEP THE PRODUCT CLEAN AND FREE FROM DIRT:** Any dirt should be removed from the product prior to assembly.
- INSPECT PERIODICALLY:** Upon inspection, discard and replace if worn, distorted, or damaged.
- REMOVE DAMAGED WIRE ENDS:** Using a designated pair of wire rope cutters prior to inserting into the Dyna-Tite Cable Lock.
- FOR DRY LOCATIONS ONLY**
- DO NOT USE IN CHLORINATED ATMOSPHERES**

**FOR STATIC LOAD APPLICATIONS ONLY**

Please see our Dyna-Tite testing and warnings webpage for the most detailed list of warnings:  
<http://www.durodyne.com/DTTesting.php>

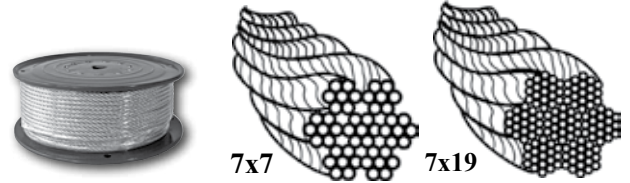
Duro Dyne East Division, Bay Shore, NY  
 Duro Dyne Midwest Division, Hamilton, OH  
 Duro Dyne West Division, Fontana, CA  
 Duro Dyne Canada, Lachine, Quebec, Canada

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**Submittal Form  
 Cable Lock Wire Rope**



**SUGGESTED SPECIFICATION:**

All ductwork and equipment shall be supported using wire rope cable terminated by Cable Locks. All Cable Locks shall have an Ultimate Breaking Strength (U.B.S.) of at least 5 times the published Working Load Limit (W.L.L.). Wire ropes shall be of the size and spaced per manufacturers printed specifications. Wire Rope and Cable Locks shall be as supplied by Duro Dyne Corporation.

**SPECIFICATION DATA**

- 1) All wire rope supplied by Duro Dyne is statistically tested to minimum breaking strength.
- 2) Dyna-Tite Suspension System has been submitted and tested to be an acceptable alternative to the duct hanger systems prescribed in SMACNA HVAC-DCS 2nd edition By SMACNA Testing & Research Institute.
- 3) All Working Load Ratings of Dyna-Tite Cable Locks manufactured by Duro Dyne have been witnessed and verified by Independent Testing Labs.
- 4) Dyna-Tite Cable Locks may be used in temperatures up to 300 degrees F.
- 5) Dyna-Tite Cable Locks wedges are constructed of corrosion resistant sintered steel.
- 6) Dyna-Tite Cable Lock springs are constructed of tempered stainless steel.

**WIRE ROPE SPECIFICATION  
 CARBON STEEL & GALVANIZED**

Galvanized steel wire rope, supplied by Duro Dyne is manufactured to exacting standards and statistically tested to verify the breaking strength. Duro Dyne recommends only using wire rope supplied by Duro Dyne. The chart below outlines the specifications.

Wire Rope Size	Tolerance	Rope Construction
WC8-CL25	+5%/-0%	7x19
WC6-CL23	+0.018/-0.009 in	7x19
WC4-CL18	+0.014/-0.007 in	7x7
WC3-CL12	+0.012/-0.006 in	7x7
WC2-CL6	+0.010/-0.005 in.	7x7

**APPLICABLE SMACNA STANDARD**

**4.2.11 Hanging System Selection**

The selection of a hanging system should not be taken lightly not only because it involves a significant portion of the erection labor, but also because an inadequate hanging system can be disastrous. In any multiple hanging system, the failure of one hanger transfers that load to adjacent hangers. If one of these fail, an even greater load is transferred to the next. The result is a cascading failure in which an entire run of duct might fail.

There are many hanger alternatives, especially in the upper attachments. Besides structural adequacy, the contractor's choice of hanging system must also take into account the particulars of the building structure, the skills of the worker, the availability of tooling, and the recommendations of the fastener manufacturer. Because of these variables, it is suggested that the hanging system be the contractor's choice, subject to the approval of the mechanical engineer.



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