NORTH®

by Honeywell

Cable & Web Anchor Slings

INSTRUCTION MANUAL
MANUEL D'UTILISATION
MANUAL DE INSTRUCCION

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Eslingas de anclaje de cable y tejido

Thank You

Thank you for your purchase of North fall protection equipment manufactured by Honeywell Safety Products.

⚠WARNING

All persons using this equipment must read, understand and follow all instructions. Failure to do so may result in serious injury or death. Do not use this equipment unless you are properly trained.

Questions?

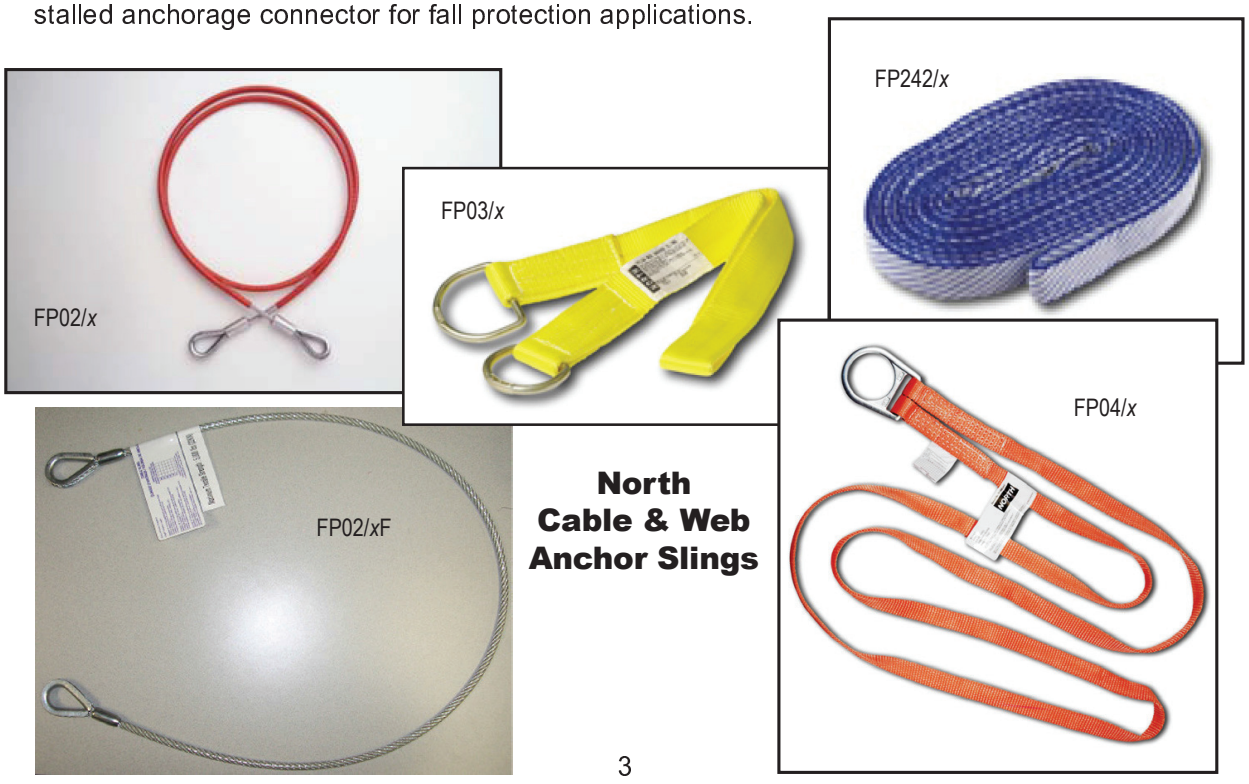
CALL
1.800.873.5242

It is crucial that the authorized person/user of this equipment read and understand these instructions. In addition, federal law requires employers to ensure that all users are trained in the proper installation, use, inspection, and maintenance of fall protection equipment. Fall protection training should be an integral part of a comprehensive safety program.

Proper use of fall arrest systems can save lives and reduce the potential of serious injuries from a fall. The user must be aware that forces experienced during the arrest of a fall or prolonged suspension may cause bodily injury. Consult a physician if there is any question about the user's ability to use this product. Pregnant women and minor children must not use this product.

1.0 Purpose

North Cable and Web Anchor Slings are designed to provide a single user with an easily installed anchorage connector for fall protection applications.



2.0 General Requirements, Warnings and Limitations

2.1 General Requirements

All warnings and instructions shall be provided to authorized persons/users.

All authorized persons/users must reference the regulations governing occupational safety, as well as applicable ANSI or CSA standards. Please refer to product labeling for information on specific OSHA regulations, and ANSI and CSA standards met by product.

Proper precautions should always be taken to remove any obstructions, debris, material, or other recognized hazards from the work area that could cause injuries or interfere with the operation of the system.

All equipment must be inspected before each use according to the manufacturer's instructions.

All equipment should be inspected by a qualified person on a regular basis.

To minimize the potential for accidental disengagement, a competent person must ensure system compatibility.

Equipment must not be altered in any way. Repairs must be performed only by the manufacturer, or persons or entities authorized in writing by the manufacturer.

Any product exhibiting deformities, unusual wear, or deterioration must be immediately discarded.

Any equipment subject to a fall must be removed from service.

The authorized person/user shall have a rescue plan and the means at hand to implement it when using this equipment.

Never use fall protection equipment for purposes other than those for which it was designed. Fall protection equipment should never be used for towing or hoisting.

All synthetic material must be protected from slag, hot sparks, open flames, or other heat sources.

Equipment must not be exposed to environmental hazards and chemicals which may produce a harmful effect.

Use in a corrosive or caustic environment dictates a more frequent inspection and servicing program to ensure the integrity of the product is maintained.

Do not allow equipment to come in contact with anything that will damage it including, but not limited to, sharp, abrasive, rough or high-temperature surfaces, welding, heat sources, electrical hazards, or moving machinery.

Do not expose the equipment to any hazard which it is not designed to withstand. Consult the manufacturer in cases of doubt.

Always check for obstructions below the work area to make sure potential fall path is clear.

Allow adequate fall clearance below the work surface.

The purchaser of this equipment must ensure that all personnel using this equipment are familiar with these instructions and are properly trained in the operation, limitations, installation, inspection and maintenance of this product. Training should be conducted periodically and without exposing the trainee to a fall hazard.

Never remove product labels, which include important warnings and information for the authorized person/user.

2.2 Warnings and Limitations

CAPACITY
For use by ONE person only. Maximum weight capacities vary by product; refer to the Anchorage Connector Installation section.

SYSTEM COMPATIBILITY
North safety products are designed for use with Honeywell-approved components. Substitution or replacement with non-approved component combinations or subsystems or both may affect or interfere with the safe function of each other and endanger the compatibility within the system. This incompatibility may affect the reliability and safety of the total system.

PERSONAL FALL ARREST SYSTEM REQUIREMENTS
Fall arrest systems used with the anchorage connector must be rigged in accordance to regulatory requirements. [All instructions and warnings provided with the components of the personal fall arrest system must be read, understood, and followed.]

Make sure that all connections within the fall arrest system are compatible.

Use only locking carabiners, locking snap hooks or other Honeywell-approved connectors or connecting devices to attach to this equipment.

The anchorage connector must be compatible with the snap hook or carabiner of the connecting device and must not be capable of causing a load to be applied to the gate/keeper. Never use an anchorage connector which will not allow snap hook or carabiner gate/keeper to close.

SWING FALL, FREE FALL AND FALL CLEARANCE
Anchor and system must be installed and used in such a manner as to minimize the potential for a swing fall hazard and limit free fall distance to 6 feet (1.8m) or less. Work directly under the anchor point to avoid a swing-fall injury.

Ensure that the anchorage connector is at a height that will not allow a lower level to be struck should a fall occur. When selecting an anchorage point, always remember that shock absorbers will elongate when subjected to fall arrest forces. Refer to the labels and instructions provided with the connecting device to obtain the maximum elongation distance and to determine how to calculate required fall clearance.

ANCHORAGE REQUIREMENTS
The structure that this product is attached to must be capable of supporting 5,000 lbs. (22.2kN) per user attached; or be designed, installed and used, under the supervision of a qualified person, as part of a complete personal fall arrest system which maintains a safety factor of at least two.

Anchorage requirements based on ANSI are as follows:

- For fall arrest systems, anchorages must withstand a static load of 5,000 lbs. (22.2kN) for non-certified anchorages or two times the maximum arresting force for certified anchorages.
- When more than one personal fall arrest system is attached to an anchorage, the above anchorage strengths must be multiplied by the number of personal fall arrest systems attached to the anchorage.

USE LIMITATIONS
Do not use anchor slings to connect more than one person.

Anchor slings are designed for personal fall protection applications only. Do not use slings for material handling.

Do not puncture slings or wrap around sharp objects which may cut the fibers.

Anchors slings are for temporary use only.

COMPLIANCE
North Anchor Slings meet OSHA 1926.502, ANSI Z359.1*, ANSI A10.32 and CSA259.12.

[*Note: If the system is used by an employee having a combined tool and body weight between 310 lbs. (140.6 kg) and 400 lbs. (181.4 kg), then the employer must appropriately modify the criteria and protocols to provide proper protection for such heavier weights, or the system will not be deemed to be in compliance with the requirements of OSHA 1926.502(d)(16).]*

*ANSI Z359.1 capacity range is 130 lbs. (59kg) to 310 lbs. (140.6kg).

3.0 Installation and Use

Before installation of any anchorage connector, carefully inspect to ensure that it is in useable condition. Check for missing or damaged parts. Do not use this equipment if any component does not operate properly or if the unit appears to be damaged in any way. Refer to the inspection section of this manual.

Only trained and competent personnel should install and use this equipment.

3.1 Cable Anchor Slings (FP02 Series)

Warnings and Limitations

- **FP02/*x* Cable Anchor Sling Series: Maximum capacity is 310 lbs. (140.6kg), including body weight, clothing and tools.**
- **FP02/*x*F Cable Anchor Sling Series: Maximum capacity is 350 lbs. (158.8kg)*, including body weight, clothing and tools.**

Fig. 1a

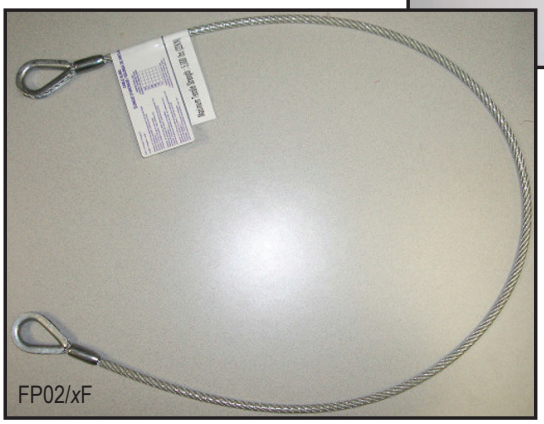


Fig. 1b

Model No.	Description	Lengths	Materials	Weight	Min. Breaking Strength
Cable Anchor Slings					
FP02/*x*	Cable Anchor Sling with swaged eyes	Available in lengths from 2 ft - 10 ft ((in 1-ft *(3m)* increments)	Wire Rope: 1/4" (6mm) diameter galvanized steel 7x19 Aircraft Cable with PVC coating Thimbles: hot dip galvanized Swages: aluminum oval sleeves	0.55 lbs (0.?kg) for 2 ft +0.1 lbs (0.05kg) per ft of cable	5,000 lbs (22.2kN) minimum
FP02/*x*F	Cable Anchor Sling with Flemish eyes	Available in lengths from 3 ft - 6 ft. (in 1-ft. increments) and 8 ft.	Wire Rope: 1/4" (6mm) diameter galvanized steel with PVC coating Thimbles: hot dip galvanized Swages: steel sleeves	0.55 lbs (0.?kg) for 2 ft +0.1 lbs (0.05kg) per ft of cable	5,000 lbs (22.2kN) minimum
"*x*" indicates the length in the actual model no.					

Installation

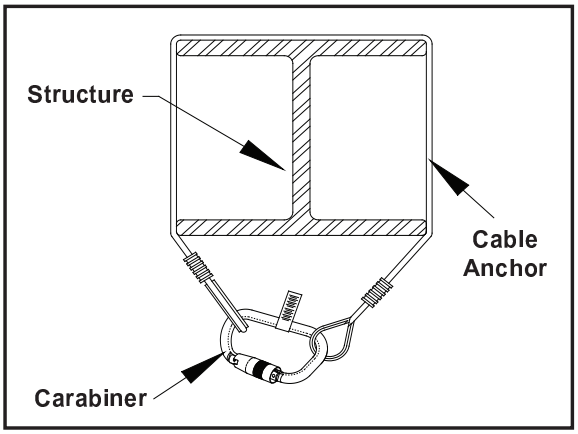
1. Locate and identify an approved compatible anchorage/structure.
2. Wrap the cable anchor around the structure and connect a carabiner through both thimbles. Ensure that the carabiner gate is completely closed and locked. Also ensure that the carabiner is positioned so that its gate is never load bearing.

   WARNING: DO NOT install in a choking manner.

   WARNING: Attach the lanyard, retractable lifeline or other connecting device to the carabiner, ensuring that the connection is compatible and that the connectors are positioned in such a way so that the gates are never load bearing and accidental disengagement will not occur.

Removal: To remove the device, simply reverse the installation procedure.

Fig. 1c



**This picture is for installation illustration purposes only and is not an exact drawing of the product.*

3.2 Web Anchor Slings (FP03 Series)

Fig. 2a

Warnings and Limitations

- **For use by ONE person only. Maximum capacity is 310 lbs. (140.6kg), including body weight, clothing and tools. — DO NOT EXCEED THIS WEIGHT.**

Model No.	Description	Lengths	Materials	Min. Breaking Strength
Cable Anchor Slings				
FP03/*x*	Web Anchor Sling with two (2) D-Rings (one large and one small)	Available in lengths from 2 ft - 6 ft. (in 1-ft. increments)	Webbing: 2" (61mm) nylon D-rings: forged steel	5,000 lbs (22.2kN) minimum
"*x*" indicates the length in the actual model no.				

Installation

1. Locate and identify an approved compatible anchorage/structure.
2. Wrap the web anchor sling around the structure in a choking manner, passing the smaller D-ring through the larger D-ring.

   WARNING: Attach to the smaller D-ring only with a locking snap hook, locking carabiner, or other Honeywell-approved connector or connecting device.

Removal: To remove the device, simply reverse the installation procedure.

Fig. 2b

**This picture is for installation illustration purposes only.*

3.3 Pass-Thru Anchor Slings (FP04 Series)

Fig. 3a

Warnings and Limitations

- **For use by ONE person only. Maximum capacity is 310 lbs. (140.6kg), including body weight, clothing and tools. — DO NOT EXCEED THIS WEIGHT.**

Model No.	Description	Lengths	Materials	Min. Breaking Strength
Cable Anchor Slings				
FP04/*x*	Web Anchor Sling with one (1) D-Ring	Available in lengths from 2 ft - 6 ft. (in 1-ft. increments)	Webbing: 1" (25.4mm) nylon D-ring: forged steel	5,000 lbs (22.2kN) minimum
"*x*" indicates the length in the actual model no.				

Installation

1. Locate and identify an approved compatible anchorage/structure.
2. Wrap the anchor sling around the structure in a choking manner, passing the D-ring through the webbing.

   WARNING: Attach to the D-ring only with a locking snap hook, locking carabiner, or other Honeywell-approved connector or connecting device.

Removal: To remove the device, simply reverse the installation procedure.

3.4 TNT (Tiny 'n Tough) Web Anchor Slings (FP242 *(FPM242)* Series*)

Fig. 4a

Warnings and Limitations

- **For use by ONE person only. Maximum capacity is 310 lbs. (140.6kg), including body weight, clothing and tools. — DO NOT EXCEED THIS WEIGHT.**
- **This sling should never be in continuous use as a permanent anchor. Do not exceed 30 days use in one location with load applied due to potential creep in fiber. (See additional notes in "About Dyneema Fiber" below.)**

Model No.	Description	Lengths	Materials	Weight	Min. Breaking Strength
Cable Anchor Slings					
FP242/*x* *(Canada)* FPM242/*x* *(US)*	Web Loop Anchor Sling	Available in lengths from 2 ft - 6 ft. (in 1-ft. increments)	Webbing: 3/4" (19mm) wide, 0.086" (2.2mm) thick, high-strength Dyneema / Nylon tubular	2 ft. (610 mm) - 0.1 lbs (0.07kg) 4 ft. (1220mm) - 0.2lbs (0.09kg) 6 ft. (1830mm) - 0.3lbs (0.14kg)	5,000 lbs (22.2kN) minimum
"*x*" indicates the length in the actual model no.					

About Dyneema Fiber

- **Dyneema fiber is a polyethylene based fiber and is the lightest and strongest of man-made fibers. It is 8 to 10 times the strength of steel and at least 40 times stronger than other comparable aramid products of its size.**
- **It will withstand high load strains, it floats, and exhibits superior resistance to chemicals, water and ultraviolet light.**
- **It is not recommended for use in high-temperature applications due to its tendency to creep under loads at this level. It is also not recommended to leave equipment, such as a self-retracting lifeline, attached to this sling as the fiber will again creep. Creeping means that the fiber will stretch over time and retain its new shape permanently.**
- **Dyneema fiber is extremely resilient and abrasion resistant. It can be used with confidence on concrete, stone and other rough surfaces if inspected daily in accordance with inspection instructions in this manual.**
- **An added feature to the life expectancy of Dyneema is that it exhibits excellent flex-fatigue characteristics. This means that the fibers can be flexed often without the threat of breakage or degradation.**
- **Dyneema is a superior fiber used for fall protection equipment; however, it is imperative that all inspection and maintenance instructions be followed to ensure that it maintains its integrity and performance characteristics.**

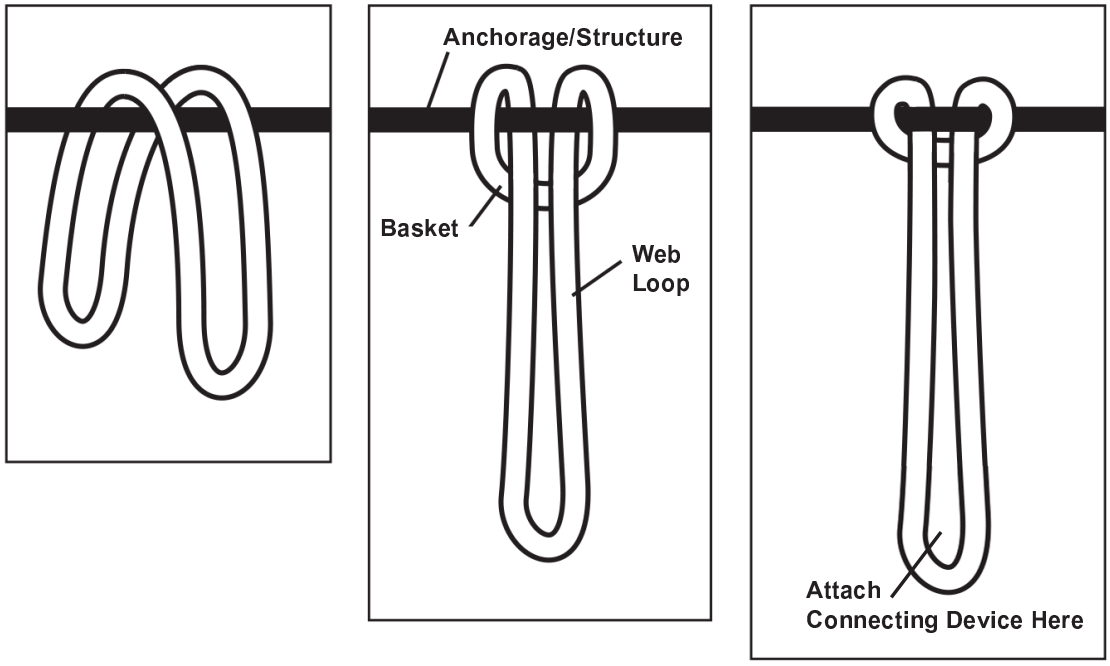
Installation

1. Locate and identify an approved compatible anchorage/structure.
2. Wrap the web anchor sling around the structure in a choking manner, passing one end of the web loop through the other.

   WARNING: Attach to the sling with a locking snap hook, locking carabiner, or other Honeywell-approved connector or connecting device.

Removal: To remove the device, simply reverse the installation procedure.

Fig. 4b



Optional Installation

The TNT Web Anchor Sling can also be embedded in concrete, secured to the slab or wall rebar.

4.0 Inspection and Maintenance

Inspection

Anchor Slings must be visually inspected by the user before each use and inspected by a Competent Person (other than the user) on a regular basis, at least annually.

Inspect product for any of the following:

- absence of or alteration to any elements affecting the equipment form, fit or function
- bent, cracked, distorted, worn, malfunctioning or damaged parts;
- loose fasteners or missing parts/components;
- evidence of defects in or damage to webbing and wire rope*
- evidence of defects in or damage to hardware components, such as deformation, cracks, breaks, corrosion, pitted surfaces, chemical attack, and rough or sharp edges
- deterioration or excessive wear;
- absence or illegibility of markings/labels;
- signs that indicate the product has been subjected to fall arrest forces;
- or any other indications of damage/problems that may affect the integrity and operation of the product.

If in doubt, contact the manufacturer.

*When inspecting webbing, wire rope or other materials/fibers used in the construction of the anchorage connector, be sure to inspect each section, rotating and flexing, to reveal any damage, cuts, broken strands/fibers, frayed areas, pulled stitches, burns, chemical damage, unusual wearing patterns, or signs of deterioration.

***CAUTION: Always wear gloves when inspecting wire rope; broken strands can cause injury!**

Devices that do not pass inspection or have been subjected to fall arresting forces must be removed from service.

Cleaning and Storage

Clean anchor slings periodically with a sponge dampened in a mild solution of water and commercial soap or detergent to remove any dirt, paint, contaminants, or other materials that may have accumulated. Wipe with a clean cloth and hang freely to dry away from excessive heat, steam, or long periods of sunlight. When not in use, store in a cool, clean, dry area, away from chemicals, fumes, water, corrosive or degrading elements, ultraviolet light, and sources of heat or sparks. Store hanging loosely, free of kinks and knots.

Servicing

Servicing of North equipment must only be carried out by Honeywell Safety Products or persons or entities authorized in writing by Honeywell. A record log of all servicing and inspection dates for this device must be maintained. Only original North replacement parts are approved for use in this device. Non-repairable devices that do not pass inspection must be disposed of in a manner to prevent inadvertent further use. Contact Honeywell Technical Service at 800.873.5242 (press 4) if you have any questions.

Notes / Remarques / Notas

Inspection and Maintenance Log
Registre D'inspection et D'entretien
Registro de Inspección y Mantenimiento

DATE OF MANUFACTURE:____
DATE DE FABRICATION / FECHA DE FABRICACIÓN

MODEL NUMBER:____
NUMÉRO DE MODÈLE / NÚM. DE MODELO

DATE PURCHASED:____
DATE D'ACHAT / FECHA DE COMPRA

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