# MSA ROSE

## USER INSTRUCTIONS

## WIRE CLASP ANCHORAGE CONNECTOR

## WARNING

National standards and state, provincial and federal laws require the user to be trained before using this product. Use this manual as part of a user safety training program that is appropriate for the user's occupation. These instructions must be provided to users before use of the product and retained for ready reference by the user. The user must read, and understand (or have explained), and heed all instructions, labels, markings and warnings supplied with this product and with those products intended for use in association with it. FAILURE TO DO SO MAY RESULT IN SERIOUS INJURY OR DEATH.

## 1.0 SPECIFICATIONS

MODEL NO.	MATERIAL	MIN. BREAKIN	INSIDE	DIAM.	APPROX. WEIGHT		
		LBF	kN	IN	мм	LBS	KG
10003207	stainless steel	5,000	22.2	3 1/8	80	0.6	0.3
10003208	stainless steel	5,000	22.2	4 1/8	105	0.7	0.3
10003209	stainless steel	5,000	22.2	5 1/2	140	0.9	0.4

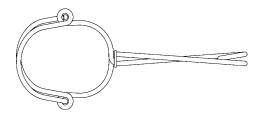
TABLE 1 WIRE CLASP ANCHORAGE CONNECTOR MODELS COVERED BY THESE INSTRUCTIONS

- Rose Wire Clasp Anchorage Connectors meet OSHA requirements, ANSI A10.14 Type 1, ANSI Z359.1 and CSA Z259.1 standards.
- The Rose Wire Clasp has a minimum breaking strength of 5,000 lbf (22.2 kN).
- The Rose Wire Clasp is constructed of formed stainless steel, 6 mm diameter, polished finish.
- The Rose Wire Clasp is designed for the attachment of a single personal fall arrest system.
- When used as part of a personal fall arrest system, fall arresting forces must not exceed 1,800 lbf (8 kN).
- Capacity is 310 lbs (140 kg) including weight of the user plus clothing, tools and other user-borne objects.

## 2.0 DESCRIPTION

The Rose Wire Clasp is a component designed specifically for coupling a single personal fall arrest system to an anchorage. The Rose Wire Clasp is a temporary overhead anchorage connector intended for use on such anchorages as pipes or beams.

FIGURE 1 MODEL 10003207 – 3 1/8 INCH WIRE CLASP





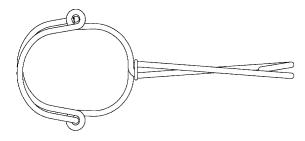
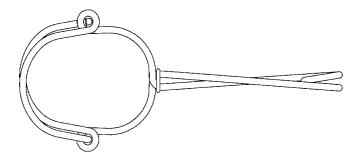


FIGURE 3 MODEL 10003209 – 5 1/2 INCH WIRE CLASP



## 3.0 SELECTION & APPLICATION

## 3.1 PURPOSE OF WIRE CLASP

The Wire Clasp is primarily a component of a personal fall arrest system, serving as an anchorage connector. It may also be used for work positioning, travel restriction, rescue, retrieval, evacuation and confined space entry/exit operations, depending on the associated system components used together with the Wire Clasp.

Use of the Wire Clasp must comply with these User Instructions, and further, is subject to approval under the user's safety rules and regulations and by the user's safety director, supervisor or qualified safety engineer. Be certain the selection of the Wire Clasp Anchorage Connector is suited for the intended use and work environment. If there is any conflict between these User Instructions and other directives or procedures of the user's organization, do not use the Wire Clasp until such conflicts are resolved. Consult all local, state and federal Occupational Health and Safety Administration (OSHA) requirements for personal safety equipment. Also refer to the latest revision of ANSI Z359.1 and ANSI A10.14 standards for more information on anchorage connectors and associated system components. In Canada, refer to provincial and federal regulations.

## 3.2 LIMITATIONS

The following applications limitations must be considered and planned for before using the Rose Wire Clasp Anchorage Connector.

### 3.2.1 PHYSICAL LIMITATIONS

The Wire Clasp is designed for one person with a combined total weight no greater than 310 lbs (140 kg), including clothing, tools and other user-borne objects.

#### 3.2.2 CHEMICAL HAZARDS

Acidic, alkaline or other environments with harsh substances may damage the hardware elements of the Wire Clasp. If working in a chemically aggressive environment, consult Rose Manufacturing Company to determine which anchorage connector material is better for your specific conditions. When working in the presence of chemicals, more frequent inspection of the Wire Clasp is required.

#### 3.2.3 CORROSION

Do not expose the Wire Clasp to corrosive environments for prolonged periods. Organic substances and salt water are particularly corrosive to metal parts. When working in corrosive environments, more frequent inspection, cleaning and drying of the Wire Clasp is required.

#### 3.2.4 ELECTRICAL HAZARDS

Use extreme caution when working near energized electrical sources. Metal hardware will conduct electric current. Maintain a safe working distance (preferably at least 10 feet -3 m) from electrical hazards.

#### 3.2.5 IMPACT FORCES

Any Wire Clasp Anchorage Connector which has been subjected to the forces of arresting a fall must be immediately removed from service and marked as "UNUSABLE" until destroyed.

### 3.3 COMPATIBILITY OF SYSTEM PARTS

#### 3.3.1 COMPATIBILITY OF COMPONENTS AND SUBSYSTEMS

Rose Wire Clasp Anchorage Connectors are designed to be used with Rose approved components and connecting subsystems. Use of the Wire Clasp Anchorage Connector with products made by others that are not approved in writing by Rose may adversely affect the functional compatibility between system parts and the safety and reliability of the complete system. Connecting subsystems must be suitable for use in the application (e.g. fall arrest, climbing protection, restraint, rescue or evacuation). Rose Manufacturing Company produces a complete line of connecting subsystems for each application. Contact Rose for further information. Refer to the manufacturer's instructions supplied with the component or connecting subsystem to determine suitability. For fall arrest applications using Rose Wire Clasp Anchorage Connectors, the maximum fall arrest force must not exceed 1,800 lbf (8 kN). Contact Rose Manufacturing Company with any questions regarding compatibility of equipment used with the Rose Wire Clasp Anchorage Connectors.

#### 3.3.2 COMPATIBILITY OF CONNECTORS

Connectors, such as D-rings, snaphooks, and carabiners, must be rated at 5,000 lbf (22 kN) minimum breaking strength. Rose connectors meet this requirement. Connecting hardware must be compatible in size, shape, and strength. Non-compatible connectors may accidentally disengage ("rollout"). Always verify that the connecting carabiner and the D-ring on the harness or anchorage connector are compatible. Use only self-closing, self-locking carabiners (as defined and required by ANSI Z359.1).

#### 3.3.3 ANCHORAGES AND ANCHORAGE CONNECTORS

Anchorages for personal fall arrest systems must have a strength capable of supporting a static load, applied in directions permitted by the system, of at least: (a) 3,600 lbf (16 kN) when certification exists, or (b) 5,000 lbf (22.2 kN) in the absence of certification. See ANSI Z359.1 for definition of certification. When more than one personal fall arrest system is attached to an anchorage, the anchorage strengths set forth in (a) and (b) must be multiplied by the number of systems attached to the anchorage. See ANSI Z359.1, section 7.2.3. This requirement is consistent with OSHA requirements under 20 CFR 1910, Subpart F, Section 1910.66, Appendix C. In addition, it is recommended that the user of personal fall arrest systems refer to ANSI Z359.1, Section 7, for important considerations in equipment selection, rigging, use, and training.

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The Wire Clasp Anchorage Connector is not suited for supporting side loads. Installation must be planned so that potential fall arrest loads are applied vertically and directly below the anchorage connector.

## 4.0 INSTALLATION OF THE WIRE CLASP

Select a suitable anchorage of strength and size, capable of (a) supporting the load in the intended direction of loading, and (b) with a size compatible with the inside diameter of the Wire Clasp. Refer to Figure 4 below.

- Step 1: Grasp handle of Wire Clasp and squeeze to open the jaws of the device.
- Step 2: Place the anchorage between the open jaws and release tension on the handle. The jaws of the Wire Clasp will automatically close. The wire jaws must completely enclose the anchorage. The jaws must close together to engage the locking mechanism. Always Check!
- Step 3: Inspect the installation and verify that the Wire Clasp is fully closed and locked onto the anchorage.

To connect personal fall arrest subsystem to the Wire Clasp Anchorage Connector, attach a compatible self-closing, self-locking carabiner to the wire eye formed at the base of the wire clasp handle. Follow manufacturer's instructions for components used in conjunction with this product.

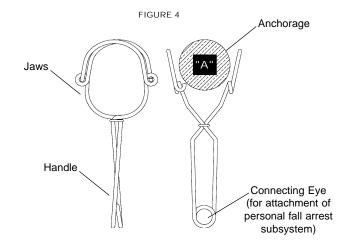


TABLE 2	DIMENSION "A"	IS THE MAX. DIAMETER OF WIRE CLASP ANCHORAGE

MODEL NUMBER	INCHES	MM
10003207	3 1/8	80
10003208	4 1/8	105
10003209	5 1/2	140

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- Do not apply a side load to the Wire Clasp. Avoid contact with nearby objects that could come into contact with the Wire Clasp and cause interference with proper use of this device. Avoid contact with sharp edges.
- Always connect to a sutable overhead anchorage. Do not tie off at a level below the worker's back D-ring.

• Select an anchorage of suitable size, strength and shape for use with this anchorage connector. When in doubt, contact your Safety Director or call Rose at the number listed on the back page of this User Instruction.

• Do not leave the Wire Clasp Anchorage Connector installed in environments which could cause damage or deterioration to the product. Refer to sections 5 and 7 for care and inspection details. Do not leave unattended loads on the Wire Clasp Anchorage Connector.

## 4.3 MAKING CONNECTIONS

When using a carabiner to connect to an anchorage or when coupling components of the system together, be certain accidental disengagement ("rollout") cannot occur. Rollout is possible when interference between a carabiner and the mating connector causes the carabiner's gate or keeper to accidentally open and release. Rollout occurs when a carabiner is snapped into an undersized ring such as an eye bolt or other non-compatibly shaped connector. Only self closing, self-locking carabiners should be used to reduce the possibility of rollout when making connections. Do not use snaphooks or connectors that will not completely close over the attachment object. Do not make knots in a lanyard. Do not hook a lanyard back onto itself. Snaphooks and carabiners must not be connected to each other. Do not attach two snaphooks or carabiners into one D-ring. Do not attach snaphooks or carabiners directly to a horizontal lifeline. Always follow the manufacturer's instructions supplied with each system component.

## 4.4 REMOVAL OF THE WIRE CLASP ANCHORAGE CONNECTOR

Before attempting removal of the Wire Clasp Anchorage Connector, disconnect all loads and attachment elements from the Anchorage Connector D-ring. Return the Wire Clasp Anchorage Connector to the appropriate person in the user's organization for cleaning, inspection and storage.

## 5.0 CARE, MAINTENANCE AND STORAGE

## 5.1 CLEANING INSTRUCTIONS

Clean the Wire Clasp Anchorage Connector with a solution of water and mild laundry detergent. Dry hardware with a clean cloth and hang to air dry. Do not speed dry with heat. Excessive accumulation of dirt, paint or other foreign matter may prevent proper function of the Wire Clasp Anchorage Connector. Questions concerning Wire Clasp Anchorage Connector conditions and cleaning should be directed to Rose Manufacturing Company.

#### 5.2 MAINTENANCE AND SERVICE

Equipment which is damaged or in need of scheduled maintenance must be tagged as "UNUSABLE" and removed from service. Corrective maintenance (other than cleaning) and repair, such as replacement of elements, must be performed by Rose. Do not attempt repairs.

#### 5.3 STORAGE

Store the Wire Clasp Anchorage Connector in a cool, dry and clean place out of direct sunlight. Avoid areas where heat, moisture, light, oil, and chemicals or their vapors or other degrading elements may be present. Equipment which is damaged or in need of scheduled maintenance should not be stored in the same area as usable equipment. Heavily soiled, wet, or otherwise contaminated equipment should be properly maintained (e.g. dried and cleaned) prior to storage. Prior to using equipment which has been stored for long periods of time, a Formal Inspection should be performed by a competent person.

## 6.0 MARKINGS & LABELS

The following labels must be present, legible and securely attached to the Wire Clasp.



(labels shown here not actual size)

## 7.0 INSPECTION

## 7.1 INSPECTION FREQUENCY

The Wire Clasp Anchorage Connector must be inspected by the user before each use and, additionally, by a competent person other than the user at intervals of no more than six months. The competent person inspection is referred to as Formal Inspection.

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If the Wire Clasp Anchorage Connector has been subjected to fall arrest or impact forces, it must be immediately removed from service and marked as "UNUSABLE" until destroyed.

## 7.2 INSPECTION STEPS

- Step 1: Inspect the Wire Clasp Anchorage Connector label to verify that it is present and legible. See section 6 for the specific labels that should be present and the information contained on those for the model number shown on page one (1) of these instructions. Check the Formal Inspection Grid to be sure a Formal Inspection has been performed within the last six months. If the Grid does not indicate that a Formal Inspection has been performed within the last six months (by being punched), or if any labels are missing or illegible, remove the Wire Clasp Anchorage Connector from use and mark it as "UNUSABLE" until a Formal Inspection is performed by a competent person.
- Step 2: Inspect the Wire Clasp for deformations, fractures, cracks, corrosion, deep pitting, sharp edges, cuts, deep nicks and evidence of excessive heat or chemical exposures.
- Step 3: Inspect the plastic label for its presence and legibility.
- Step 4: Inspect each component and subsystem of the complete system in accordance with the associated manufacturer's instructions.

## 7.3 CORRECTIVE ACTION

When inspection in accordance with section 7 reveals signs of inadequate maintenance, the Wire Clasp Anchorage Connector must be immediately removed from service and marked as "UNUS-ABLE" until destroyed. Defects, damage, excessive wear, malfunction, and aging are generally not repairable. If detected, immediately remove the Wire Clasp Anchorage Connector from use and mark it as "UNUSABLE' until destroyed. For final disposition, submit the Wire Clasp Anchorage Connector to a competent person who is authorized to perform Formal Inspection. If there is any question as to repairability, contact Rose or a service center authorized in writing by Rose before further use of the product.

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Only Rose Manufacturing Company or parties authorized in writing may make repairs to this equipment.

## 8.0 INSPECTION GRID

Punch month of first use.

	J	F	Μ	А	М	J	J	А	S	0	N	D
1st												
2nd												
3rd												
4th												
5th												
6th												

#### WARRANTY

Express Warranty - Rose/MSA warrants that the product furnished is free from mechanical defects or faulty workmanship for a period of one (1) year from first use or eighteen (18) months from date of shipment, whichever occurs first, provided it is maintained and used in accordance with Rose/MSA's instructions and/or recommendations. Replacement parts and repairs are warranted for ninety (90) days from the date of repair of the product or sale of the replacement part, whichever occurs first. Rose/MSA shall be released from all obligations under this warranty in the event repairs or modifications are made by persons other than its own authorized service personnel or if the warranty claim results from misuse of the product. No agent, employee or representative of Rose/MSA may bind Rose/MSA to any affirmation, representation or modification of the warranty concerning the goods sold under this contract. Rose/MSA makes no warranty concerning components or accessories not manufactured by Rose/MSA, but will pass on to the Purchaser all warranties of manufacturers of such components. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, AND IS STRICTLY LIMITED TO THE TERMS HEREOF. ROSE/ MSA SPECIFICALLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FIT-NESS FOR A PARTICULAR PURPOSE. For additional information please contact the Customer Service Department at 1-800-MSA-2222 (1-800-672-2222).

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