

User Instructions
MSA Lanyards



Order No.: 10188906/01
Print Spec.: 10000005389(A)
CR 800000026997



The Safety Company

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USA

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For your local MSA contacts please go to our website www.MSAafety.com

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**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, 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.

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1. Specifications

Compliance: **US:** ANSI/ASSE Z359.13, Z359.3; OSHA 29 CFR 1910.66, ASTM F887-005

CAN: Z259.11-17

The product may comply with standards shown. See product label for specific compliance notifications. Those designated with a certification mark are listed with the corresponding agency as compliant to at least one of the standards shown.

Snaphooks: Aluminum or zinc plated steel. Single-hand operation, auto close and lock.

Adjusters: Zinc plated steel.

Carabiners: Steel or aluminum.

Minimum breaking strength (MBS):

Snaphooks: 5,000 lbf (22.2 kN), proof tested to 3,600 lbf (16 kN).

Adjusters: 4,000 lbf (17.8 kN).

Weight capacity, lanyard elongation, and arresting forces:

See product label for specific information. A summary of these specifications is provided on page 7 of these instructions.

NOTE: When it is infeasible to limit free fall distance to 6 ft (1.8 m) or less, U.S. Federal OSHA has provided for exemption from this rule. In an interpretation of 29 CFR 1926.502 (d)(16) dated December 4, 1996, OSHA issued the ruling that personal fall arrest systems may be used in applications where the free fall distance may exceed 6 ft (1.8 m), provided the employer can document that the arresting force limits are maintained and the assembled system will operate properly. MSA 12 ft Free Fall Lanyards meet the requirements of this ruling, when used as part of a compatible personal fall arrest system that includes a qualified anchorage and a full body harness. See product label for specific permissible free fall distance. MSA recommends that users consult national, state, and local regulations for their specific industry application to be assured of compliance.

“Arc Flash Rated” indicates that the product is acceptable for use as part of a Personal Fall Arrest System exposed to potential arc flash situations. Since these products fall outside the scope of ASTM F887, the product has undergone arc exposure and then tested to the appropriate industry standard to ensure reliability in the event of a fall.

Table 1 Standards met

Standard met (see product data card)*	Weight capacity range	Allowable free fall	Maximum arresting force	Average arresting force	Maximum elongation
Restraint lanyards (without shock absorber) ANSI Z359.3, CSA Z259.11, OSHA	Up to 400 lbs (181 kg)	2 ft (.6 m)	-	-	-
ANSI Z359.13 6 ft free fall	130 - 310 lbs (59 - 140 kg)	6 ft (1.8 m)	1800 lbf (8 kN)	900 lbf (4 kN)	48 in (1.2 m)
ANSI Z359.13 12 ft free fall	130 - 310 lbs (59 - 140 kg)	12 ft (3.6 m)	1800 lbf (8 kN)	1350 lbf (6 kN)	60 in (1.5 m)
CSA Z259.11	64 - 140 kg (140 - 310 lb)	1.8 m (6 ft)	1800 lbf (8 kN)	750 lbf (3.3 kN)	1.5 m (60 in)
CSA Z259.11 - Light weight capacity	50 - 105 kg (110 - 230 lb)	1.8 m (6 ft)	1800 lbf (8 kN)	700 lbf (3.1 kN)	1.1 m (42 in)
OSHA only	130 - 310 lbs (59 - 140 kg)	6 ft (1.8 m)	1800 lbf (8 kN)	-	42 in (1.1 m)
400 lb capacity OSHA only	130 - 400 lbs (59 - 181 kg)	6 ft (1.8 m)	1800 lbf (8 kN)	-	42 in (1.1 m)

*Products that list ASTM F887 meet that standard's performance criteria for arc resistance of lanyards for workers who may be exposed to thermal hazards of momentary electric arcs of flame.

Table 2 Materials

Materials:	Nylon	Polyester	3-strand nylon rope	Vinyl-clad galvanized aircraft cable	Low carbon steel link
	Strap: 1 in (25 mm) nominal width Shock absorber: 1 ¾ in (44 mm)		5/8 in (16 mm) ½ in (12.7 mm) minimum	¼ in (6 mm)	#4/0 twist
Terminations:	Stitched		5-tuck hand spliced	Swaged fitting	Pin fitting
Weight: (approx.)	1.6 lbs. (720 g)		1.3 lbs. (600 g)	1.9 lbs. (850 g)	3.6 lbs. (1633 g)

2. Training

Purchasers of MSA Lanyards must ensure that users are familiar with the User Instructions and are trained by a competent person in:

- workplace hazard identification, evaluation and control
- selection, inspection, use, storage and maintenance
- usage planning including calculation of free and total fall distance; maximum arresting force
- compatibility and selection of anchorage/anchorage connectors including connection to help prevent accidental disengagement (rollout)

Description

- proper lanyard/harness connection locations
- evacuation and rescue planning and implementation
- consequences of improper use

For confined space applications:

- See OSHA 29 CFR 1910.146 and ANSI Z117.1.

Periodically (at least annually) assess effectiveness of training and determine the need for retraining or additional training. Contact MSA for training information.

3. Description

A lanyard is designed to connect a worker to an anchorage and is part of a personal fall arrest or restraint system. The lanyard consists of rope, webbing, chain link, or cable and self-closing, self-locking snaphooks. Lanyards with integral shock absorbers are designed to dissipate force in a fall. Lanyards are of fixed or adjustable length depending on model.

4. Selection and Applications

4.1. Purpose of an MSA Lanyard

4.1.1 Fall Arrest

The lanyard is part of a fall arrest system when used with an approved shock absorber and attached to the fall arrest attachment of a full body harness. See harness instructions for approved attachment points.

4.1.2 Twin Leg Shock-Absorbing Lanyard

Twin shock absorbing lanyards allow continuous connection (tie-off) while the user moves between anchorage locations.

4.1.3 Work Restriction

The lanyard can be used to restrict a user from reaching a fall hazard.

4.1.4 Work Positioning

The lanyard may be used with a fall arrest system for positioning a user to work at height. Class E lanyards as defined by CSA Z259.11-17 (Rebar assemblies) may be used for work positioning only.

4.2. Physical Limitations

The lanyard is designed for one user whose weight, including clothing, tools, and other user-borne objects is less than the capacity shown on product label. Users with muscular, skeletal, or other physical conditions that could reduce the ability to withstand fall-arrest shock loads or prolonged suspension should consult a physician before using. Pregnant women and minors must never use the lanyard.

4.3. Environment

Chemical hazards, heat and corrosion may damage the lanyard. More frequent formal inspections are required in environments with chemical hazards, heat and corrosion. Do not use in environments with

temperatures greater than 185°F (85°C). Use caution when working around electrical hazards, moving machinery, abrasive surfaces, and sharp edges.

Table 3 Chemicals

Chemical	Resistance			
	Nylon	Polyester	Stainless steel (304)	Galvanized steel
Strong acid (dilute)	Poor	Good	Fair	Poor
Strong acid (conc.)	Poor	Fair*	Poor	Poor
Weak acid (dilute)	Poor	Good	Good	Poor
Weak acid (conc.)	Poor	Good	Poor	Poor
Strong alkali (dilute)	Good	Poor	Good	Poor
Strong alkali (conc.)	Fair	Poor	Fair	Poor
Weak alkali (dilute)	Good	Fair	Good	Fair
Weak alkali (conc.)	Good	Poor	Fair	Poor
Alcohol	Good	Fair	Good	Good
Aldehyde	Good	Poor	Good	Good
Ether	Good	Poor	Good	Good
Halogenated hydrocarbons	Good	Good	Good	Good
Phenols	Poor	Poor	Good	Good
Bleaching agents	Poor	Good	Fair	Poor
Ketones	Good	Poor	Good	Fair
Lubricating oils and greases	Good	Good	Good	Good
Soaps and detergents	Good	Good	Good	Good
Seawater	Good	Good	Fair	Poor
Aromatic solvents	Good	Poor	Good	Good

*Concentrated sulfuric acid attacks polyester

5. System Requirements

5.1. Compatibility of System Parts

5.1.1 Compatibility of Components and Subsystems

MSA Lanyards are designed to be used with MSA approved components and connecting subsystems. Use of MSA Lanyards with products made by others that are not approved in writing by MSA 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 or restraint). MSA produces a complete line of connecting subsystems for each application. Contact MSA for further information. Refer to the manufacturer's instructions supplied with the component or connecting subsystem to determine suitability. For fall arrest applications using the lanyard, the maximum fall arrest force must not

exceed 1,800 LBF (8 kN). Contact MSA with any questions regarding compatibility of equipment used with the lanyard.

5.1.2 Compatibility of Connectors

Connectors, such as D-Rings, snaphooks, and carabiners, must be rated at 5,000 LBF (22 kN) minimum breaking strength. MSA connectors meet this requirement. Connecting hardware must be compatible in size, shape, and strength. Non-compatible connectors may accidentally disengage (“rollout”). Always verify compatibility of the connecting snaphook or carabiner with harness D-Ring or anchorage connector. Use only self-closing, self-locking snaphooks and carabiners with the harness.

Use only self-closing, self-locking snaphooks and carabiners to reduce the possibility of rollout. Do not use snaphooks or connectors that will not completely close when attached.

- Do not tie knots in a lanyard.
- Do not hook the lanyard to itself. (Exception: FP5K tie-back snaphook)
- Do not connect snaphooks and carabiners to each other.
- Do not connect two (2) snaphooks to one (1) D-ring.
- Connect only snaphooks and carabiners with a minimum gate strength of 3600 lbf (16 kN) directly to a horizontal lifeline.



WARNING

Do not rely on feel or sound to verify proper snaphook engagement. Always check visually for proper engagement. Ensure that gate and keeper are closed before use. Failure to follow this warning can result in serious personal injury or death.

5.2. Anchorages and Anchorage Connectors

Personal fall arrest system anchorages and connectors must be capable of supporting a static load, applied in each direction permitted by the system, of at least 5,000 lbf (22.2 kN).


6. Planning the Use of Systems

6.1. Rescue and Evacuation

The user must have a rescue plan and the means at hand to implement it. The plan must take into account equipment and special training necessary to effect prompt rescue under all foreseeable conditions. For confined space rescue, see OSHA regulation 1910.146 and ANSI Z117.1.

6.2. Free Fall Distance

Do not exceed free fall distance specified by applicable regulations and standards. When using a shock-absorbing lanyard, keep the amount of slack between the anchorage/anchorage connector and the harness/waist belt at a minimum to reduce the free fall distance and the impact force to the user.


WARNING

Prevent swing falls and impact with objects in or adjacent to the fall path. Always remove obstructions below the work area to ensure a clear fall path. Work directly under the anchorage/anchorage connector at all times. Failure to follow this warning can result in serious injury or death.

Do not use where objects may fall or otherwise interfere with the operation or ability of this device to function properly.

Table 4 Permissible free fall distance

Permissible free fall distance	US	Canada
With shock absorber	6 ft (1.8 m)	6 ft (1.8 m)
Without shock absorber	2 ft (0.6 m)	2 ft (0.6 m)
12 ft free fall shock absorber	12 ft (3.7 m)	

NOTE: The above table provides general guidelines. See lanyard label for specific permissible free fall distances.

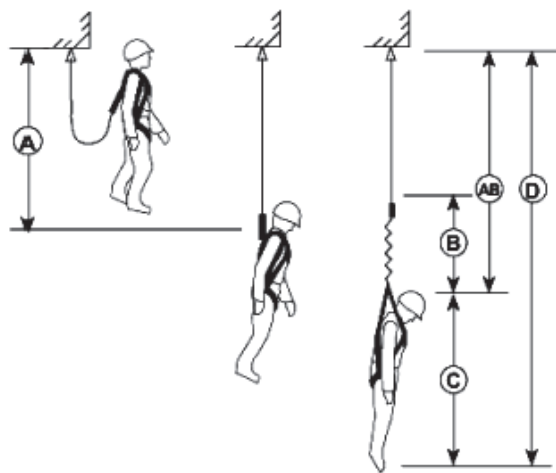


Figure 1 Free fall distance

A = free fall

B = deceleration distance

AB = total fall distance+ 3 ft (0.9 m) safety margin

C = user height

D = minimum clearance required



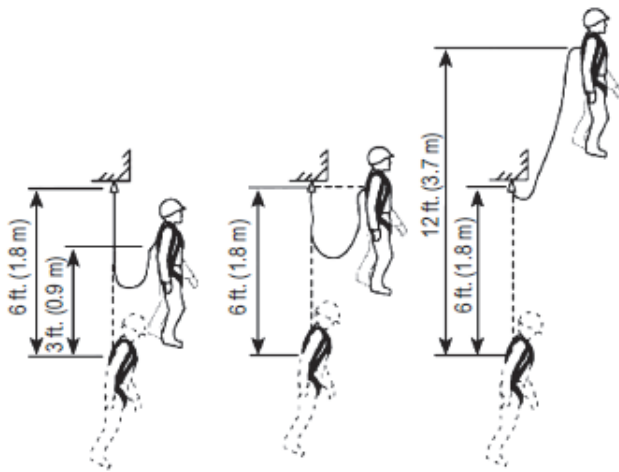


Figure 2 Permissible free fall distance

NOTE: If worker's weight (including tools and clothing) is between increments listed, the next highest weight bracket shall be used.

Table 5 Energy absorber deployment – based on worker weight and 6 ft max. free fall

Weight (kg)	Deployment length, X_{pea} (m)	
	Standard EAL	Light Weight EAL
50	-	0.34
55	-	0.38
60	-	0.42
65	0.39	0.47
70	0.43	0.51
75	0.45	0.56
80	0.48	0.61
85	0.52	0.67
90	0.56	0.72
95	0.60	0.78
100	0.65	0.84
105	0.69	0.90
110	0.74	-
115	0.79	-
120	0.84	-
125	0.89	-
130	0.94	-
135	1.00	-
140	1.06	-

US

7. Use

7.1. Connection

7.1.1 Positioning Lanyard

Connect one end to a suitable anchorage and the other end to the back D-Ring (or CSA Class A connector) of an approved full body harness or CSA Class P connector.

7.1.2 Shock-Absorbing Lanyard

Connect one end to a suitable anchorage and the other end to the back D-Ring of an approved full body harness (or CSA Class A connector).

7.1.3 Twin Leg Shock-Absorbing Lanyard

Connect the middle snaphook of the twin lanyard to the back D-ring of an approved full body harness. Connect the snaphooks on the ends of the lanyard legs to suitable approved anchorages. Connect the snaphook at the end of one leg to an initial anchorage. Connect the snaphook at the end of the other leg to a secondary anchorage before moving and/or disconnecting from the initial anchorage.

NOTE: To attach hitch loop models, pass hitch loop through connector, then pull lanyard through hitch loop and pull taut.

7.1.4 Rebar Positioning Lanyards

Connect the two small snaphooks to the hip or waist attachment points on the harness with the large snaphook in front of your body. Attach the large snaphook to a suitable anchorage.



WARNING

When using a twin leg shock-absorbing lanyard, connect the center-mounted snaphook to the harness back D-Ring. Do not connect the snaphooks on the ends of the lanyard leg to your body support, as this can increase the possible free fall distance beyond allowable limits. Maintain tie-off while moving between anchorage locations. Do not disconnect from your initial position until you have first connected to another anchorage. When one leg is not in use, only attach to lanyard keeper on harness, not side or front D-ring. Do not allow lanyard legs to pass under arms, between legs or around neck.



WARNING

When using rebar positioning lanyards, the user must be attached to an independent fall arrest system simultaneously.

7.1.5 Anchorage Connection

Tie-back Lanyard: connect the snaphook on the shock absorber to the back D-ring of the user's full body harness. Be sure the snaphook's gate is completely closed and locked. The user then connects the FP5K snaphook to the anchorage connector. Be sure the snaphook's gate is completely closed and locked.

7.1.6 Tie-Back Connection

- Step 1:** Connect the snaphook on the shock absorber to the back D-ring of the user's full body harness. Wrap the leg of the lanyard around a suitable anchorage.
- Step 2:** Tie-back Lanyard: Connect the FP5K snaphook to the leg of the lanyard to create a closed loop.
Floating D-ring: Connect the snaphook at the end of the leg to a floating D-Ring back on the leg of the lanyard to create a closed loop.
- Step 3:** Be sure the snaphook gate is completely closed, locked, and captures the leg of the lanyard. Inspect anchorage to assure the tie-back loop on the leg of the lanyard cannot be accidentally disengaged from the anchorage during use.



WARNING

Lanyards that have been subjected to fall arrest forces cannot be repaired and must be destroyed. If a lanyard is subjected to fall arrest or impact forces, immediately remove it from service and tag "UNUSABLE." Failure to follow this warning can result in serious personal injury or death.

8. Care, Maintenance and Storage

8.1. Cleaning

Clean the lanyard with a solution of water and mild laundry detergent. Do not use chemicals, harsh detergents or pressure washers. Rinse with clear water. 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 lanyard, and, in severe cases, weaken the webbing. Contact MSA with questions concerning lanyard conditions and cleaning.

8.2. Maintenance and Repairs

Tag damaged equipment or equipment needing maintenance as "UNUSABLE" and remove from service. Repair and maintenance (other than cleaning) must be performed by MSA. Do not attempt to repair an MSA lanyard. The moving parts of snaphooks and carabiners may require periodic lubrication with low viscosity penetrating oil. Follow lubricant manufacturer's instructions. Do not over-lubricate. Wipe excess with a clean, dry cloth.

8.2.1 Storage

Store the lanyard 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 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 (see 10.2 Formal Inspection) should be performed by a competent person.

9. Markings and Labels

All labels must be present, legible and securely attached.


9.1. Labels

INSPECTION GRID

YR	J	F	M	A	M	J	J	A	S	O	N	D
1 st												
2 nd												
3 rd												
4 th												
5 th												

PUNCH GRID ON MONTH OF FIRST USE

803 Rev. 4 10083667



Warning: Maximum User Weight 130-310 lbs.

6ft. 900lbs.

Maximum Free Fall Average Arresting Force
 Maximum Deployment Distance 48"
 Force may increase when cold and/or wet
Read Instructions Before Use

Warning: Maximum User Weight 130-310 lbs.

12ft. 1350lbs.

Maximum Free Fall Average Arresting Force
 Maximum Deployment Distance 60"
 Force may increase when cold and/or wet
Read Instructions Before Use

Read instructions before use / Lire les instructions avant utilisation

Maximum free-fall distance Weight range including tools
 Maximum de chute libre Gamme de poids incluant les outils

1.8 m 64-140 kg

6 ft 140-310 lbs

Maximum deployment Maximum deployment factor
 Déploiement maximum Facteur de déploiement maximum

1.5 m (4.8 ft) D₃₁₀=0.5

See user instructions Voir les instructions aux utilisateurs

10188908
7111 Rev. 2



▲ WARNING

CONNECT UNUSED LANYARD LEG TO A LANYARD CLIP FOUND ON HARNESS. DO NOT CONNECT UNUSED LANYARD LEG TO SIDE, HIP, FRONT, OR BACK D-RINGS.

▲ ADVERTENCIA

CONECTAR LA PIERNA NO USADA DEL LANYARD AL CLIP DEL ARNÉS. NO CONECTAR LA PIERNA DEL LANYARD A LOS ANILLOS D LATERALES, FRONTAL NI DE ESPALDA.

▲ ADVERTISSEMENT

RACCORDER LA LONGE NON UTILISÉE DU CORDON DE SÉCURITÉ À UNE ATTACHE POUR LONGE QU'ON TROUVE SUR LE HARNAIS. NE PAS RACCORDER DE LONGE DE CORDON NON UTILISÉE À DES ANNEAUX EN "D" PLACÉS SUR LES CÔTÉS, AUX HANCHES, À L'AVANT OU SUR LE DOS.

011 REV. 1 10107789

MSA

Shock Absorbing Lanyard
Lanière Absorbante de Choc

Part Number/ Numéro d'article []
 Material/Matière []
 Serial Number/Numéro de Série []
 Date Made/ Date de Fabrication []
 Length/Longueur []
 Class/Classe []

Capacity / Capacité []

Meets Standards/ Satisfait aux normes []

Model/Modèle []

▲ WARNING

Read and heed all instructions in user manual supplied with lanyard. Remove from service if subjected to fall arrest. Avoid sharp edges and abrasive surfaces. Make only compatible connections. Failure to follow warnings and instructions can result in serious injury or death.

▲ AVERTISSEMENT

Lire et tenir compte de toutes les instructions de manuel de l'utilisateur fourni avec ce cordon. Retirer du service si le produit a été soumis à des forces d'arrêt de chute. N'effectuer que des raccords avec des pièces compatibles. Tout manquement aux avertissements et aux instructions pourrait entraîner des blessures graves ou même la mort.

DO NOT REMOVE THIS LABEL
NE PAS RETIRER CET ÉTIQUETTE

MSA The Safety Company
 1000 Cranberry Woods Dr. • Cranberry Twp., PA 16066
 Ph: 1-800-672-2222 • Fax: 1-800-967-0398

811 Rev.3 10188907



MSA
PRODUCT NAME
Lanyard • Acollador • Cordon

Part No. /
Numero de parte /
Número d'article [**PART NUMBER**

Material/Material/Matière [**MATERIAL**

Serial Number/Número de Serie/Numéro de Série [**SERIAL NUMBER**

Date Made [**DATE MADE**

Fecha de Fabricacion /
Date de Fabrication [**LENGTH CLASS**

Length/Longitud/Longueur [**LENGTH CLASS**

Class / Clase / Classe [**LENGTH CLASS**

Capacity [**CAPACITY**

Capacidad [**CAPACITY**

Capacité [**CAPACITY**

Meets Standards /
Cumple con los Estándares /
Satisfait aux normes [**APPLICABLE STANDARD**

Model/Modelo/Modèle [**MODEL NUMBER**

SP
XXXXXXXXXX

For Positioning, Max. Free Fall Distance:
Para colocar, Distancia De la Caída libre máx.: < 2 ft (0,61 m)
Pour placer, Distance de chute libre max.: []

For fall arrest, this product must be used with suitable shock absorber. / Para la detención de caídas, este producto se debe utilizar con un amortiguador de impactos adecuado. / Pour les applications antic chute, ce produit doit être utilisé avec un amortisseur approprié.

**DO NOT REMOVE THIS LABEL
NO QUITE ESTAS ETIQUETA
N'ENLEVEZ PAS CES ETIQUETTES**
Made in COUNTRY / Made in COUNTRY /
Made in COUNTRY / Made in COUNTRY

812 Rev 0 10192004

MSA

▲ WARNING / ADVERTENCIA / AVERTISSEMENT

Read and heed all instructions in user manual supplied with product. Remove from service if subjected to fall arrest. Avoid sharp edges and abrasive surfaces. Make only compatible connections. Failure to follow warnings and instructions can result in serious injury or death.

Lea y siga todas las instrucciones del manual del usuario que acompaña el producto. Retire de uso si ha sido sometido a la detención de una caída. Solamente haga conexiones compatibles. El no seguir las advertencias e instrucciones puede producir lesiones graves o la muerte.

Lire et tenir compte de toutes les instructions de manuel de l'utilisateur fourni avec ce produit. Retirer du service si le produit a été soumis à des forces d'arrêt de chute. N'effectuer que des raccords avec des pièces compatibles. Tout manquement aux avertissements et aux instructions pourrait entraîner des blessures graves ou même la mort.

Expiration Date /
Fecha De Vencimiento /
Date d'échéance [N/A

MSA The Safety Company
1000 Cranberry Woods Drive • Cranberry Twp., PA 16066
Ph: 1-800-672-2222 • Fax: 1-800-967-0398

INSPECTION GRID

YR	J	F	M	A	M	J	J	A	S	O	N	D
1 ST												
2 ND												
3 RD												
4 TH												
5 TH												

PUNCH GRID ON MONTH OF FIRST USE

4101 Rev 4 10083663

MSA
PRODUCT NAME
Shock Absorbing Lanyard
Cordon de Amortiguacion

Part Number/ [**PART NUMBER**

Numero de Parte [**PART NUMBER**

Material/Material [**MATERIAL**

Serial Number/ [**SERIAL NUMBER**

Número de Serie [**SERIAL NUMBER**

Date Made [**DATE MADE**

Fecha de Fabricacion [**DATE MADE**

Length/Longitud [**LENGTH**

Length/Longitud [**LENGTH**

Capacity [**CAPACITY**

Capacidad [**CAPACITY**

Meets Standards /
Cumple con los Estándares [**APPLICABLE STANDARD**

▲ WARNING / ADVERTENCIA

Read and heed all instructions in user manual supplied with lanyard. Remove from service if subjected to fall arrest. Avoid sharp edges and abrasive surfaces. Make only compatible connections. Failure to follow warnings and instructions can result in serious injury or death.

Lea y siga todas las instrucciones del manual del usuario que acompaña el acollador. Retire de uso si ha sido sometido a la detención de una caída. Solamente haga conexiones compatibles. El no seguir las advertencias e instrucciones puede producir lesiones graves o la muerte.

**DO NOT REMOVE THIS LABEL
NO QUITE ESTA ETIQUETA**
MSA Corporate Headquarters
1000 Cranberry Woods Dr. • Cranberry Twp., PA 16066
Ph: 1-800-672-2222 • Fax: 1-800-967-0398

Made in Country • Made in Country

812 Rev. 0 10187629

**TWIN LEG LANYARDS,
ATTACH CENTER
SNAPOOK TO BACK D**

**CUERDAS
AMORTIGUADORAS
DOBLES, CONECTE EL
GANCHO DE SEGURIDAD
AL ANILLO DE ESPALDA
EN D.**

**CORDONS
AMORTISSEURS
DOUBLES, FIXER LE
CROCHET À RESSORT
DU CENTRE À L'ANNEAU
EN D ARRIÈRE.**

707 REV. 4 10012315

117 REV 2
10107327

MSA

REBAR CHAIN ASSEMBLY

Model []

Material [Steel, zinc plated

Length []

Capacity [310 lbs (140 kg)
(includes person +
clothes + tools)

Free Fall Limit [2 ft (0.6m)

Meets Standard []

Date Made []

Product of Taiwan

Read instructions before use / Lire les instructions avant utilisation

Maximum free-fall distance / Maximum de chute libre

**1.8 m
6 ft**

Maximum deployment / Déploiement maximum

1.1 m (3.5 ft)

Weight range including tools / Gamme de poids incluant les outils

**50-105 kg
110-230 lbs**

Maximum deployment factor / Facteur de déploiement maximum

D₁₀₅=0.5

See user instructions / Voir les instructions aux utilisateurs

10190402
7/11 Rev. 0

10. Inspection

10.1. Inspection Frequency

Inspect the lanyard before each use.

10.2. Formal Inspection

MSA requires that all lanyards be inspected by a competent person other than the user at intervals of no more than six (6) months per applicable standard or as specified by a formal fall protection program. Record formal inspections in the provided Inspection Log. Punch or indelibly mark the Inspection grid attached to the lanyard. Do not use a lanyard with a formal inspection date older than six (6) months. Tag lanyards with formal inspection dates older than six (6) months "UNUSABLE" and remove from service until after formal inspection.



WARNING

Only MSA or parties with written authorization from MSA may repair the lanyard. Do not attempt to repair or alter an MSA Lanyard.

10.3. Inspection Procedure

Perform the following steps in order. If in doubt about any inspection point, consult MSA or a competent person qualified to perform formal inspection.

- Step 1:** Inspect the lanyard labels to verify that they are present and legible. Check the formal inspection grid to be sure a formal inspection has been performed within six (6) months.
- Step 2:** Inspect energy absorbers for evidence of deployment. Remove from service and destroy energy absorbers with evidence of deployment.
Inspect for elongation and/or separation of webbing layers and/or appearance of webbing outside the pouch.
- Step 3:** Inspect all fabric parts, including webbing and stitching. Remove the lanyard from service if significant fraying or discoloration occurs.
- Step 4:** Inspect all metallic parts for evidence of damage, alteration and missing parts.
 - Inspect snaphooks for deformation, fractures, cracks, corrosion, deep pitting, burrs, sharp edges, cuts, loose parts, and evidence of excessive heat or chemical exposure.
 - Check snaphook function. Unlock, open, close, and lock several times. Gate must automatically close and snugly seat against nose. The locking mechanism must retain the gate tip within 1/8 inch (3 mm) of the nose when firm pressure is applied to the gate.
- Step 5:** Inspect all plastic parts for cuts, breaks, alteration, excessive wear, missing and loose parts. Inspect for evidence of burns, excessive heat or chemical attack.
- Step 6:** Inspect each component and subsystem of the complete system in accordance with the associated manufacturer's instructions.

10.4. Corrective Action

Damage, excessive wear, and aging are generally not repairable. Tag damaged or excessively worn lanyards “UNUSABLE” and remove from service immediately. Destroy unusable lanyards.

10.5. Inspection Log

Model No.:	_____	Inspector:	_____
Serial No.:	_____	Inspection Date:	_____
Date Made:	_____	Disposition:	_____
Comments:	_____ _____ _____		

11. Warranty

Express Warranty – 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 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. 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 MSA may bind MSA to any affirmation, representation or modification of the warranty concerning the goods sold under this contract. MSA makes no warranty concerning components or accessories not manufactured by 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. MSA specifically disclaims any warranty of merchantability or fitness for a particular purpose.

Exclusive Remedy – It is expressly agreed that the Purchaser’s sole and exclusive remedy for breach of the above warranty, for any tortious conduct of MSA, or for any other cause of action, shall be the repair and/or replacement, at MSA’s option, of any equipment or parts thereof, that after examination by MSA are proven to be defective. Replacement equipment and/or parts will be provided at no cost to the Purchaser, F.O.B. Purchaser’s named place of destination. Failure of MSA to successfully repair any nonconforming product shall not cause the remedy established hereby to fail of its essential purpose.

Exclusion of Consequential Damages – Purchaser specifically understands and agrees that under no circumstances will MSA be liable to Purchaser for economic, special, incidental, or consequential damages or losses of any kind whatsoever, including but not limited to, loss of anticipated profits and any other loss caused by reason of the non-operation of the goods. This exclusion is applicable to claims for breach of warranty, tortious conduct or any other cause of action against MSA.

For additional information please contact the Customer Service Department at 1-800-MSA-2222 (1-800-672-2222).



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For local MSA contacts, please visit us at [MSAafety.com](https://www.MSAafety.com)

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