

Energy **ABSORBING** LANYARDS

Buckingham Manufacturing offers four different styles of energy absorbing lanyards. Standard design energy absorbing lanyards are returnable and can be ordered in 4', 4 1/2' and 6' lengths. Buckingham Manufacturing also allows you to design an energy absorbing lanyard from our matrix, specifying connection options and lengths. We'll manufacture the energy absorbing lanyard to accommodate your needs. Matrix designed energy absorbing lanyards are not considered standard design and are not returnable.

WHAT'S CHANGED WITH CONSENSUS STANDARDS for Energy Absorbing Lanyards

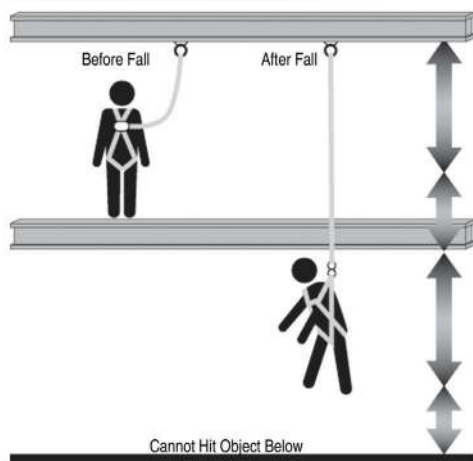
- ARC Test (40 cal) Requirement ASTM F887 - To stamp ASTM must also meet ANSI Z359.13
- ANSI Z359.12 - Requires a 3600lb Gate on snaps and carabiners
- ANSI Z359.13 - Offers 2 Energy Absorbers:
 - 6' Length for a 6' drop, maximum deceleration distance 48", arresting force is less than 900 lbs.
 - 6' Length for a 12' drop, maximum deceleration distance 60", arresting force is less than 1350 lbs.

HOW TO ORDER

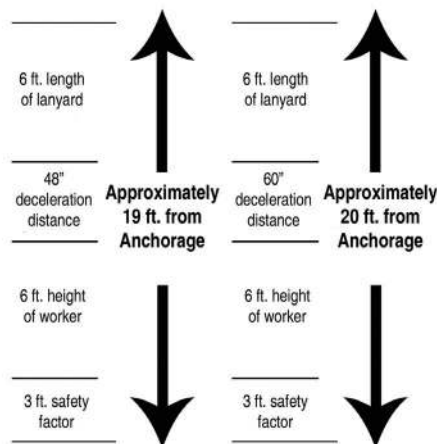
To get desired energy absorber please add correct suffix to the part number:

ASTM 40 cal (Must also meet ANSI Z359.13)	ANSI Z359.12 3600 lb. Gate	ANSI Z359.13 6' 12'	Suffix to add to Model	Example Buck Yard
S1	+Z	X6	S1X6	8VV116S1X6
S1	+Z	X12	S1X12	8VV116S1X12

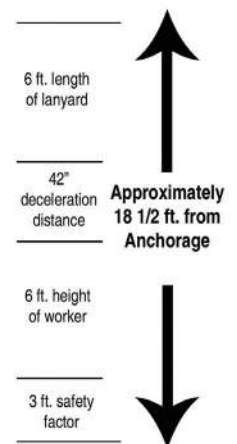
RULE OF THUMB



New Rule ANSI Z359.13



Old Rule ANSI Z359.1



Harness Dorsal Attachment	Maximum Lanyard Length
Steel Dee Ring	6' (1.8 m)
Web Loop	6' (1.8 m)
18" Pigtail	4 1/2' (1.4 m)
24" Pigtail	4' (1.2 m)

Note: The length of deployment on the energy absorber will vary depending on the anchor, length of fall, and the user's weight. If connected to a solid anchor such as an I-Beam the user will experience a greater deployment distance. When the same person is connected to an anchor on the bucket truck and the boom is not straight up and down, the energy absorber may deploy very little due to the flex in the boom. If the boom is straight up and down the energy absorber will deploy a greater distance.

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MATRIX FOR ENERGY ABSORBING/WORK POSITIONING LANYARDS

	A	B	C	D	E	F
	(Hardware for both Ends Except Items with (*) for End #2 Only)			X	X	
DECELERATOR/ WORK POSITIONING	HARDWARE (END #1 ATTACHED TO USER)	HARDWARE (END #2 ATTACHED TO ANCHOR)	MATERIAL WEB/ROPE	FIXED OR ADJUSTABLE	OVERALL LENGTH	OPTIONS
5-BUCK STOP 6-BUCK ARREST 7-WORK POSITIONING LANYARD 8-BUCK YARD	0 = 3/4" eye for carabiner 4 = Standard Half-hitch loop 6 = 3" Nylon Loop DUAL LANYARDS ONLY +4 = 2 1/4" locking ladder snap 30351 or when used w/ option +Z, a 30351 w/ 3600lb gateload +6 = Aluminum Body Locking Rope Snap +7 = 1709 Rope Snap or when used w/ option +Z, a 1712 w/ 3600lb gateload +J = 2" offset carabiner* 8 = 1704 Swivel snap A = Aluminum Carabiner Self- Locking 5555S3 D = 50051, 3600 lb. Gate Steel Carabiner	M = Permanently Attached Loop R = 2 1/2" Ladder Hook 3130 or when used w/ option +Z, a 31301 w/ 3600lb gateload V = 1706 Snap or when used w/ option +Z, a 17061 w/ 3600lb gateload Z = 1 3/4" Ladder Hook Model 3129* +H = Model 30342 Large Locking Rebar Hook +K = Model 1711 Roto Snap +N = Model 1710 Aluminum Locking Snap +T = N 3618 Tie Back Snap 3600lb gateload +W = 1714 Locking Rope Snap, 3600lb side and gate load	1 = 1" Yellow polyester web; 5,6, 7 Series Only 1 = 1 3/16" Green Nylon tube; 8 Series Only 3B = 5/8" Polyester 3 Strand Rope 4 = 1/2" Multiline Rope (3 Strand) 4A = 5/8" Multiline Rope (3 Strand) 4B = 3/4" Multiline Rope (3 Strand) 7 = Green Nylon Tube w/ elastic core; 5,6 & 8 Series Only 7A = #1 with nylon tube 8A = 1/2" Blue Streak Rope 8G = 5/8" Double Braid Rope 8K = 1/2" XTC 16 Strand Rope w/ Red Warning Core	1 = Fixed 2 = Adjustable	4 = 4' 4.5 = 4 1/2' 5 = 5' 6 = 6'	D = Dual Lanyard R = Rescue Loop S1 = Shrink Tube Over Arc Flash Rated Label. Used on Arc Flash Approved Products. S2 = Arc Flash Rated Cover for Buck Arrest V = Hook and Loop Sewn at Anchor End of Lanyard W = Leather Wear Guard W5 = Clear Plastic Tube Wear Guard X6 = Meets ANSI-Z359.13-09 for 6' FF X12 = Meets ANSI-Z359.13-09 for 12' FF +Z = Hardware meets Z359.12-09 (3600 lbs gate)

RETRACTABLE LANYARDS

The retractable lanyard, rated to 310 lbs., automatically extends and retracts to allow user mobility. This unit utilizes an inertia-brake mechanism which locks when 5" of material pulls out per second to restrain the worker to a fall of less than 12". Meets all applicable ANSI standards.

5008	A	B	C	D	OPTIONAL
RETRACTABLE UNIT	LENGTH IN FEET	SWIVEL	CONNECTING DEVICE FRAME END (Hardware for both ends except when noted)	CONNECTING DEVICE - LANYARD END	OPTIONS
	6' 8' 10'	0 = None 3 = 5/16 Swivel w/ Bolt & Nut	F = 1 3/4" ret. lanyard bracket (frame end only) 0 = 1" dia. Integral loop with wear piece Z = 3129 ladder hook 1 3/4" +6 = Locking Rope Snap, aluminum body - stamped	V = 1706 locking snap or when used with option +Z, a 17061 with 3600 lb gateload +N = Attac carabiner 223516 Suffix +Z = Indicates hardware meets Z359.1 (3600 lbs gate)	A1 - Rubber boot for carabiner K = Signifies Buck Stop pack only attached to lanyard end



Retractable Lanyard
For use in an aerial lift truck.
Attaches directly to boom.



5008-83RV



5008-103EV

