

# PRODUCT SPECIFICATIONS

## 30', 60' and 100' 2-Person Kernmantle Rope Temporary Horizontal Lifeline Systems

The FallTech Kernmantle rope two -person temporary horizontal lifeline is a completely engineered system with all of the components necessary to quickly install a complete horizontal lifeline.

This Kernmantle rope HLL includes the components required to quickly and easily set-up a safe and effective horizontal life line system with 100% tie-off for continuous fall protection.

### Features

- Durable 11/16" Kernmantle rope with stitched thimble-eye end termination.
- Line tensioner allows for easy set-up and tear-down and limits over tensioning of the system.
- Integral energy absorber to limit fall arrest forces.
- Two heavy-duty pass through anchor straps and carabiners provide a secure connection point at each end.
- Two alloy steel connection O-rings.
- Carry bag allows for easy storage and transportation.



MATERIALS SPECIFICATIONS	
<b>Rope:</b>	Kernmantle, 12,000 lb. tensile strength, 11/16" diameter.
<b>In-line Energy Absorber:</b>	Polyester
<b>Tensioner:</b>	Alloy Steel, Min 5,000 lb. tensile strength.
<b>Carabiners:</b>	Alloy Steel; Min. 5,000 lbs. tensile strength with 3,600 lbs. Gate Strength.
<b>O-rings:</b>	3" Plated, forged alloy steel, Min, 5,000 lbs.
<b>Pass-through Anchors:</b>	
<b>Webbing:</b>	Polyester; Min. 5,000 lbs. tensile strength
<b>D-rings:</b>	Alloy Steel; Min. 5,000 lbs. tensile strength

PERFORMANCE SPECIFICATIONS	
<b>Tensile Strength:</b>	Min. 5,000 lbs.
<b>Max. Capacity:</b>	310 lbs./user up to 2 users
<b>Max. Allowable Freefall:</b>	425 lbs./user up to 1 users. 6 feet
<b>System Length:</b>	30'      60'      100'
<b>Dynamic Sag</b>	See data on reverse page.
<b>Minimum Fall Clearance</b>	
<b>Dynamic End Loads</b>	

Part #	Length	Description
<b>77302K</b>	30'	Complete 2-Person systems with contents shown above
<b>77602K</b>	60'	
<b>771002K</b>	100'	
<b>77300S</b>	30'	Same 2-Person system contents without Sling Anchors
<b>77600S</b>	60'	

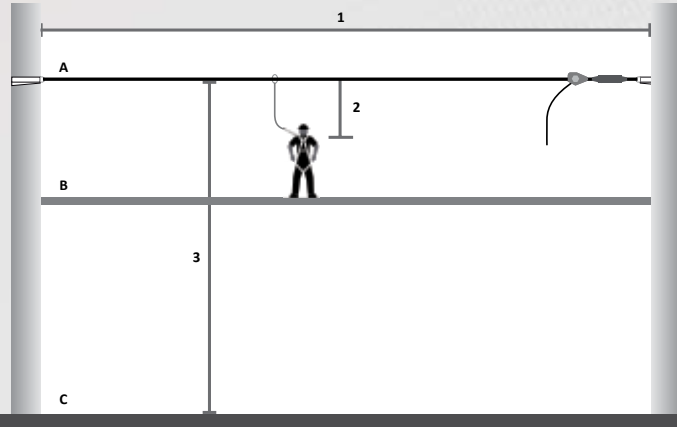
RELEVANT STANDARDS	
<b>OSHA:</b>	1926.502

### WARNINGS

- Read, understand and follow all labels and instructions prior to use.
- Inspect before each use.
- Remove from service if there is evidence of damage or excessive wear.

## Kernmantle HLL with SAL Minimum Required Fall Clearance \ 1 Worker

425 lbs. Maximum User Capacity, One Worker Maximum



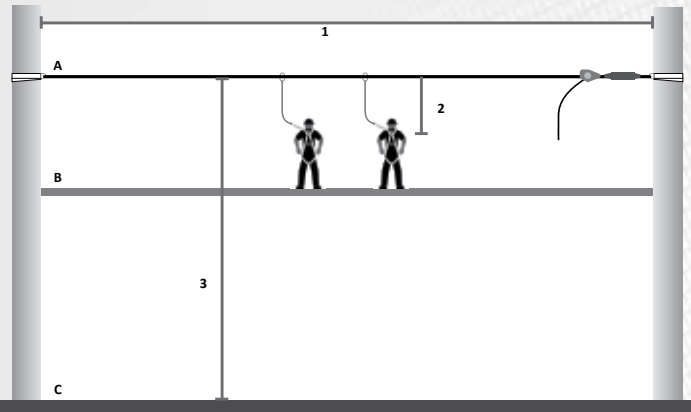
1	Find Span Length in Table 2A.
2	Find Freefall Distance in Table 2A.
3	Required Fall Clearance specified in Table 2A at the intersection of Span Length and Freefall Distance
A. Overhead Anchorage B. Walking/Working Surface C. Nearest Lower Level or Obstruction	
* Workers from 310 lbs. to 425 lbs. must use suitable PFAS; see Section 3.1	
** Work below HLL to avoid Swing Fall	

		Freefall Distance (feet)						
		0	1	2	3	4	5	6
Span Length (feet)	0 - 30	17.0'	18.0'	19.0'	20.0'	21.0'	22.0'	23.0'
	30 - 40	18.5'	19.5'	20.5'	21.5'	22.5'	23.5'	24.5'
	40 - 50	20.0'	21.0'	22.0'	23.0'	24.0'	25.0'	26.0'
	50 - 60	21.5'	22.5'	23.5'	24.5'	25.5'	26.5'	27.5'

\* Workers from 310 lbs. to 425 lbs. must use suitable PFAS; see Section 3.1

## Kernmantle HLL with SAL Minimum Required Fall Clearance \ 2 Workers

310 lbs. Maximum User Capacity Each, Two Workers Maximum



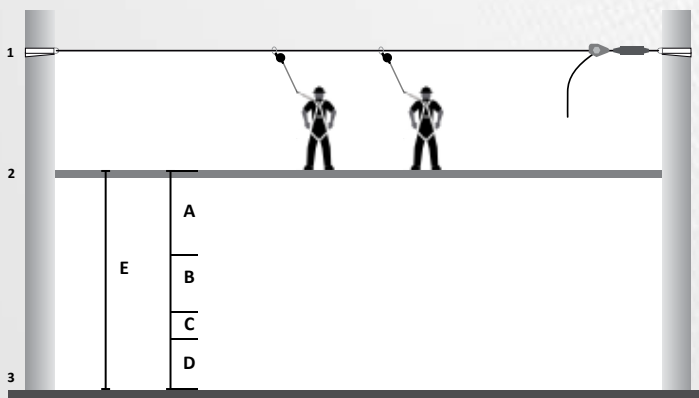
1	Find Span Length in Table 2B.
2	Find Freefall Distance in Table 2B.
3	Required Fall Clearance specified in Table 2A at the intersection of Span Length and Freefall Distance
A. Overhead Anchorage B. Walking/Working Surface C. Nearest Lower Level or Obstruction	
** Work below HLL to avoid Swing Fall	

		Freefall Distance (feet)						
		0	1	2	3	4	5	6
Span Length (feet)	0 - 30	20.0'	21.0'	22.0'	23.0'	24.0'	25.0'	26.0'
	30 - 40	21.5'	22.5'	23.5'	24.5'	25.5'	26.5'	27.5'
	40 - 50	24.0'	25.0'	26.0'	27.0'	28.0'	29.0'	30.0'
	50 - 60	25.5'	26.5'	27.5'	28.5'	29.5'	30.5'	31.5'

\* Workers from 310 lbs. to 425 lbs. must use suitable PFAS; see Section 3.1

## Kernmantle HLL with SAL Minimum Required Fall Clearance \ 2 Workers

310 lbs. Maximum User Capacity Each, Two Workers Maximum



A		Find Vertical HLL Sag from Table 3.
B		Total SRD Deceleration Distance from User's Manual*
C	<b>1 ft</b>	D-ring Shift and Harness Stretch
D	<b>3 ft</b>	Safety Factor
E		<b>Total Minimum Required Fall Clearance</b> - (Sum of A, B, C and D)
A. Overhead Anchorage B. Walking/Working Surface C. Nearest Lower Level or Obstruction		
* If SRD Deceleration Distance is unknown, use 2 feet for ANSI Z359.14 Class A SRDs or use 4-1/2 feet for ANSI Z359.14 Class B SRDs.		
** Work below HLL to avoid Swing Fall		

### Required Clearance When Connected to HLL Using ANSI Z359.14 Class A SRDs

Span Length (feet)	One Worker		Two Workers	
	0 - 30	30 - 40	0 - 30	30 - 40
0 - 30	14.0'	15.5'	17.0'	18.0'
30 - 40	15.5'	16.5'	18.0'	19.0'
40 - 50	16.5'	17.5'	19.0'	20.0'
50 - 60	17.5'	18.5'	20.0'	21.0'

Note: This chart requires that the SRD is over the head of the worker when attached to the HLL.

### Required Clearance When Connected to HLL Using ANSI Z359.14 Class B SRDs

Span Length (feet)	One Worker		Two Workers	
	0 - 30	30 - 40	0 - 30	30 - 40
0 - 30	16.5'	18.0'	19.5'	20.5'
30 - 40	18.0'	19.0'	20.5'	21.5'
40 - 50	19.0'	20.0'	21.5'	22.5'
50 - 60	20.0'	21.0'	22.5'	23.5'

Note: This chart requires that the SRD is over the head of the worker when attached to the HLL.