



DSL3 Fall Arrest Lanyard

Height Safety
Lifting
Load Control
Safety Management

The DSL range of lanyards are unique in the market in that they perform in the same way as conventional fall arrest lanyards but with the benefit of being able to self-shorten and significantly reduce falls.

Traditional fall arrest lanyards have fixed length legs, leaving slack between the user and the anchor point, resulting in longer falls than the equivalent DSL.

Traditional EN360 fall arrest blocks retract and limit slack but lack the ability to absorb all the energy of a fall if anchored below the users harness attachment point.

The DSL range offers protection for workers anywhere within the range of their anchor point. Should the user fall from below the anchor point the fall is arrested immediately due to the minimal slack and auto lock function. A fall from above the anchor point will be reduced as the retraction function minimises slack before and during the fall. This results in a significant reduction in the overall fall distance and subsequent energy absorber deployment.

The design of the DSL range ensures workers gain all the benefits when one or both legs are attached due to the common energy absorber, protecting workers in all anchor positions and during continual attachment.

The benefits of the range have been updated as we have

continually improved designs and technology.

Initially this allowed us to increase the user mass.

- 1st generation DSL achieved this for a user mass of up to 100kg.
- 2nd generation DSL2 achieved this for a user mass of up to 140kg.
- 3rd generation DSL3 achieves this for a user mass of up to 140kg.



We have also been looking at the test standards as whilst the devices can be viewed as Retractable Fall Arresters they are used in line with conventional Fall Arrest Lanyards. The important aspect was to ensure that the testing replicated the mode of use rather than the traditional categorisation of the device to ensure the users safety.

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1st and 2nd generation DSL lanyards were tested and approved to EN360 being the traditional standard, but with additional testing to demonstrate performance as an EN355 fall arrest lanyard with the ability to anchor the device at maximum extension below the user to reflect the mode of use.

3rd generation DSL3 lanyards have been fully approved to EN355 as the more stringent requirements for body and lanyard strength were important for user safety. This model now has full compliance as a Fall Arrest Lanyard.

This provides the user with a product that is a fully certified Fall Arrest Lanyard capable of arresting large free falls, but with additional benefits from the retractable element minimising falls.

As of October 2023 this is the only product of this type on the market with this certification.

Further design improvements for the DSL3 over the DSL2 were made to improve other aspects increasing the users safety.

These include;

- Higher visibility webbing colour to allow supervisors to identify when workers are attached
- Improved webbing that is UV stability tested with increased strength and cut resistance
- Additional UV testing on the webbing for use in extreme environments
- Fall indicators on the lanyard legs to show if they have been overloaded
- Re-designed internal mechanisms to increase strength and performance
- Re-designed casing with new materials to add strength and durability.

Further design improvements are in the pipeline for the DSL3.

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