

Safe-T-Lanyard Pull Wire Rope – Stainless Steel

Safe-T-Lanyard Stainless Steel Pull Wire Rope is a UV Stable Red Polyurethane coated 316 Stainless Steel 3mm ID x 5mm OD 7 x 19 construction Independent Wire Rope Core (IWRC), designed and manufactured for the purpose of a lanyard emergency stop pull wire system.

Safe-T-Lanyard is designed to comply with the Machinery Standards AS 4024.3610 2015 Clause 2.10.6.1

Pull wire emergency stops, general (Pull wires should be coloured red) and 2.10.6.2 (e) Materials used are of adequate strength, protected against environmental conditions and suitable for handling without additional protection being worn by operators. Note: if the environment the pull wire is located it may cause visual loss of its location then consideration should be given to add additional notification via reflective signs at no more than 30m intervals. See K-SAF-STP-ES, K-SAF-STG-ES or K-SAF-STL-ES.

The Actuator of a Lanyard switch is the Pull Wire thus it is made in a Red UV stable Polyurethane so to withstand the harsh environments that the wires are placed in, without cracking of the cover or fading of the colour. Once the Safe-T-Lanyard is fitted to a Safe-T-Pull Lanyard Switch and run through Safe-T-Guide Rope Guides and installed as per the switch Installation Instruction, you will then make sure your site is complying to the relevant Australian or International Standards for conveyor Emergency Stops.



ORDERING DETAILS

Part No.	Description
K-SAF-STL-10-SS	3mm ID x 5mm OD Red 7x19. Construction UV Stable Polyurethane 316 Stainless Steel (IWRC) Wire Rope.



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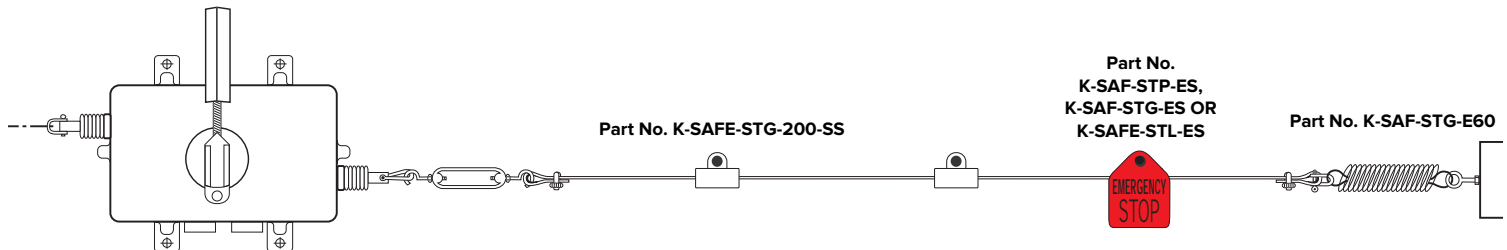
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How do they Compare and Work?



Wire Sizes:

Safe-T-Lanyard (Part No K-SAF-STL-10-SS) 3mm ID x 5mm OD 7 x 19 Construction Red UV Stable Polyurethane coated 316 Stainless Steel (IWRC) Wire Rope @0.052Kg per M

3.5mm ID x 5.5mm OD 6 x 7 Construction Blue PVC coated Wire Rope @ 0.060 Kg per M

4mm ID x 6mm OD 6 x 7 Construction Blue PVC coated Wire Rope @ 0.083Kg per M

QUESTION: Our Lanyard run is 80m, how does the wire size affect the workings and parameters of the Lanyard Switch?

- Over an 80m Lanyard run (Part No K-SAF-STL-10-SS) 3mm ID x 5mm OD 7 x 19 Construction Red UV Stable Polyurethane coated 316 Stainless Steel (IWRC) Wire Rope @ 0.052Kg per M is 4.16Kg in weight.
- Over an 80m Lanyard run 3.5mm ID x 5.5mm OD 6 x 7 Construction Blue PVC coated Wire Rope @ 0.060 Kg per M is 0.48Kg in weight.
- Over an 80m Lanyard run 4mm ID x 6mm OD 6 x 7 Construction Blue PVC coated Wire Rope @ 0.083Kg per M is 6.64Kg in weight.

When a lanyard wire is pulled in either the down the line operation or the 90 degree to the wires position, you need to pull the weight of the wire and break the static friction of the rope against the rope guides. If you use a 4mm ID x 6mm OD 6 x 7 Construction Blue PVC coated Wire Rope, you are adding an extra 2.48Kg in wire weight to the recommended wire size. So when you try to test the Switch and Installation to the AS 4024 Standard in any direction you are needing to pull an extra 2.48Kg of weight plus the extra friction caused by the extra weight if you are at either end of the switch or 1.24Kg of weight plus the extra friction caused by the extra weight if you pull in the centre of the run.

The extra weight and friction may cause the Switch and Installation NOT to perform to the AS 4024 Standards. The Switch has been tested using the recommended 3mm ID x 5mm OD 7 x 19 Construction Red UV Stable Polyurethane coated 316 Stainless Steel (IWRC) Wire Rope and found it to comply with the AS 4024 Standards over a 100m lanyard run, when set up to Installation Instructions.

Now we have the right wire size the next thing is friction reduction.

Using Galvanised or Zinc plated Pig Tails or Eye Bolts cause extra friction plus premature wire wear. Using a purpose made rope guide like the Safe-T-Guide which are designed to reduce friction and wire wear will increase the effectiveness of the workings of the switch thus improving the Nm pull to activate the switch.



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