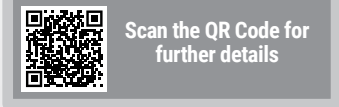


# LANYARD PULL WIRE ROPE



Proof of authenticity Safe-T-Products Identification Thread

Our ropes also include product labeling



CE Conformity

## SAFE-T-LANYARD VECTRAN™

Design for Lanyard Emergency Stop Pull Wire systems, Safe-T-Lanyard Vectran features a UV-stable red polyurethane coated (LCP) liquid crystal polymer multifilament yarn rope. This 3mm ID X 5mm OD rope complies with machinery standards, ensuring the use of red coloured pull wires that make for quick identifiable emergency stops and materials of adequate strength for the use of. Consideration for additional reflective signs at intervals not exceeding 30 metres is advised.

(Scan QR Code to Safe-T-Signs)



## SAFE-T-LANYARD STAINLESS STEEL

Crafted for Lanyard Emergency Stop Pull Wire systems, Safe-T-Lanyard stainless steel features a UV-stable red polyurethane-coated 316 stainless steel rope with a 3mm ID x 5mm OD. The 7 x 19 construction independent wire rope core (IWRC) complies with machinery standards, emphasising the use of red-colored pull wires and suitable materials. The pull wire, is made from UV-stable polyurethane.

(Scan QR Code to Safe-T-Signs)



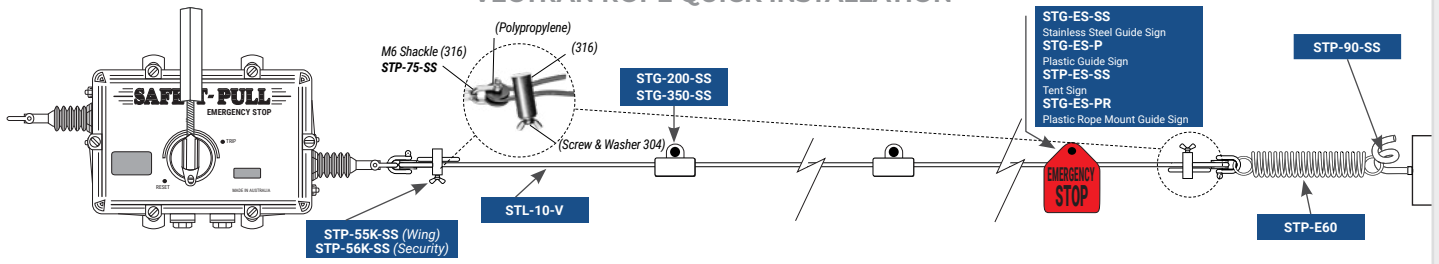
FOR MORE INFORMATION

[www.safe-t-products.com.au](http://www.safe-t-products.com.au)

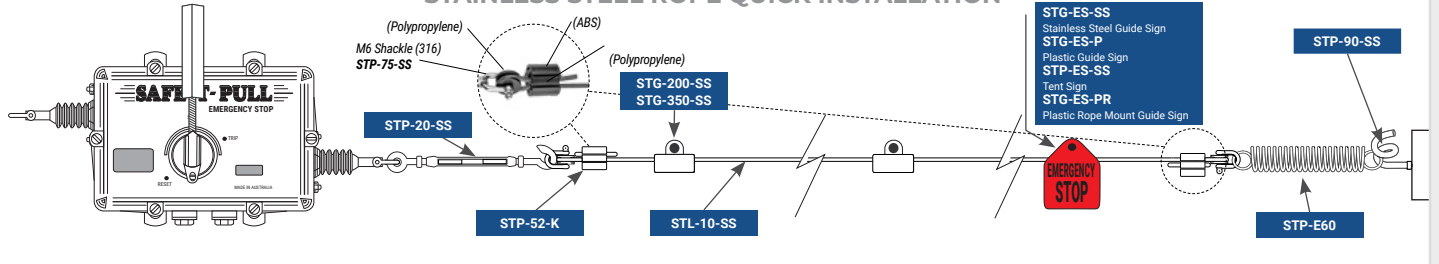


## PRODUCT DETAILS

### VECTRAN ROPE QUICK INSTALLATION



### STAINLESS STEEL ROPE QUICK INSTALLATION



## SAFE-T-LANYARD VECTRAN™

Vectran™ is a high performance multifilament yarn spun from liquid crystal polymer (LCP). Vectran™ is the only commercially available melt spun LCP fiber in the world. Vectran™ fiber exhibits exceptional strength and rigidity. Pound for pound Vectran™ fiber is five times stronger than steel and ten times stronger than aluminium weighing in @ 0.022 kg per m.

### These unique properties characterise Vectran™:

- » High strength and modulus
- » Excellent creep resistance
- » High abrasion resistance
- » Excellent flex/fold characteristics
- » Minimal moisture absorption
- » Excellent chemical resistance
- » Low coefficient of thermal expansion (CTE)
- » High dielectric strength
- » Outstanding cut resistance
- » Excellent property retention at high/low temperatures
- » Outstanding vibration damping characteristics
- » High impact resistance

## SAFE-T-LANYARD STAINLESS STEEL

Safe-T-Products offers the Safe-T-Lanyard (part no STL-10-SS), a 3mm ID x 5mm OD 7 x 19 construction red UV stable polyurethane coated 316 stainless steel (IWRC) wire rope, weighing 0.06 kg per m.

### Considering a 100m lanyard run, the weights vary:

- » STL-10-SS: 6 kg (Per 100m)
- » STL-10-V: 2.2 kg (Per 100m)

During lanyard wire operation, the weight and friction play a crucial role. When using larger diameter ropes of different coatings compared to the recommended Safe-T-Lanyard wire size and coating. This additional weight in coating, along with increased friction, may lead to non-compliance with AS/NZS 4024 standards during testing or emergency stop functioning.

Safe-T-Products has extensively tested their devices with the recommended 3mm ID x 5mm OD wire, confirming compliance with AS/NZS 4024 standards over a 100m lanyard run, after following Safe-T-Products installation instructions.

Friction reduction is vital for an effective and safe functioning emergency stop pull wire system. When using galvanised or zinc plated pigtails or eye bolts, these cause premature wire coating wear which become small grooves locked onto the pigtail or eyebolt that cause extra pull wire system friction or failure. Safe-T-Guide is designed to minimise friction and wear of the pull wire, enhancing the devices effectiveness and improving the Nm pull force required to activate the device. The use of Safe-T-Guide's makes sure the safety system is effective and functioning correctly.

(Scan QR Code to Safe-T-Guide Tribology Whitepaper)



## TECHNICAL SPECIFICATIONS

PRODUCT	DIAMETER JACKETED	INTERNAL DIAMETER	WEIGHT JACKETED ROPE	OUTER COATING	TEMP +/- ENVIRO DEPENDANT	BREAK STRENGTH
STL-10-V	5mm	3mm	22kg/km	PUR Red	80°C - 40°C	9.3 kN min. 478kgf
STL-10-SS	5mm	3mm	60kg/km	PUR Red	80°C - 40°C	5.3 kN min. 538kgf

## COMPARISON OF PROPERTIES OF VARIOUS ENGINEERING MATERIALS

MATERIAL	DENSITY (G/CM3)	TENSILE STRENGTH	SPECIFIC STRENGTH	TENSILE MODULES	SPECIFIC MODULES
Vectran™	1.41	3.2	229	75	5300
Titanium	4.5	1.3	29	110	2500
Stainless Steel	7.9	2.0	26	210	2700
Aluminium	2.8	0.6	22	70	2600
E-Glass	2.6	3.4	130	72	2800
Graphite (AS4)	1.8	4.3	240	230	13000

## PART NUMBERS

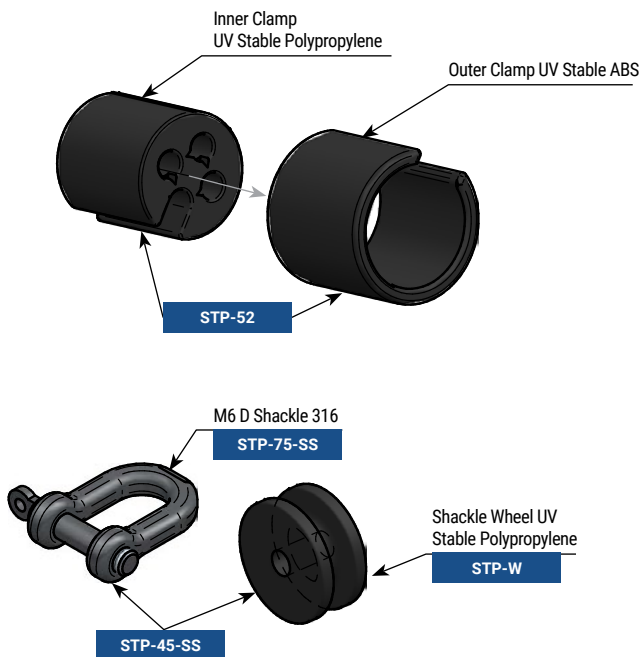
LANYARD PULL ROPE	PART NUMBER
3mm ID x 5mm OD Vectran™ Red UV Stable Polyurethane Coated Rope Per m	STL-10-V
3mm ID x 5mm OD Vectran™ Red UV Stable Polyurethane Coated Rope Per 1000m Roll	STL-10-V-ROLL
Stainless Steel Construction Wire, Coated In UV Stable Red Polyurethane Per m	STL-10-SS
Stainless Steel Construction Wire, Coated In UV Stable Red Polyurethane Per 1000m Roll	STL-10-SS-ROLL

## CLAMP DETAILS

### STL-10-SS STAINLESS STEEL PULL WIRE CLAMPING SYSTEM

Complete System

STP-52K



### STL-10-V VECTRAN PULL WIRE CLAMPING SYSTEM

Complete System

STP-55K-SS



### STP-56K-SS

Complete System

STP-56K-SS

