

Safe-T-Lanyard Pull Wire Rope - LCP

Safe-T-Lanyard VectranTM is a UV stable Red Polyurethane coated LCP (Liquid Crystal Polymer) 3mm ID x 5mm OD multifilament melt spun yarn rope, 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 4024.1604-2006 Clause 5.4.6 Actuator Colour. "The actuator of the emergency stop device SHOULD be coloured red".

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 is fitted to a Lanyard Switch and run through 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.



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Issue: 202102

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TECHNICAL SPECIFICATIONS

Diameter Jacketed	Diameter	Weight Jacketed rope	Grade	Construction	Break Strength
5mm	3 - 5mm	21.6kg/km	AISI 316	PU Red	9.3 kN min. 478kgf

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. These unique properties characterize 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

COMPARISON OF PROPERTIES OF VARIOUS ENGINEERING MATERIALS

Material	Density (g/cm ³)	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

THERMAL PROPERTIES

- Good LOI (equivalent to aramids) and low smoke generation
- Low thermal shrinkage (hot air, boiling water and laundry)
- No dripping in vertical flammability tests
- Good strength retention after hot air and radiant energy exposures
- Low, negative coefficient of thermal expansion
- Excellent property retention in a broad temperature range
- No measurable volatile condensable mass (VCM) and 0.3% maximum weight loss (TML or TWL) in testing for aerospace applications. (See also "Offgassing/outgassing").

ORDERING DETAILS

Part No	Description
STL-10-V	3mm ID x 5mm OD Vectran™ Red UV Stable Polyurethane Coated Rope



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