



# Response® Static Safety Lines

Fully certified static safety lines with kernmantle nylon core



Care & Maintenance



## FEATURES

- Responsive and reliable
- Low stretch, high strength
- Quick access and excellent knot holding
- Highly visible in Fluro Orange colour
- 11mm certified to AS4142.3-1993 & ANSI Z-133, AS1891.5 & EN1891:2002 Type A
- 13mm & 16mm conforms with AS4142.3-1993, ANSI Z-133, AS1891.5 & EN1891:2002 Type A
- Manufactured under ISO 9001:2008
- Includes internal year of manufacture marker yarn, 11mm & 13mm includes internal standards marker

## RANGE / TECHNICAL

- 11mm - 13mm in 200m reels
- 16mm in 100m reels
- Longer lengths available upon request
- Response® LSK constructed with plaited Nylon strands with a Polyester protective jacket
- Response® XT is heat-set, constructed with parallel twisted Nylon strands, with Nylon protective jacket

## APPLICATIONS

- Abseiling
- Belay
- Static descent
- Safety and Rescue line
- Access line

Product Code	Size (mm)	Colour	Reel Weight	Reel Length	BreakForce (kg)
<b>Response® LSK</b>					
RPRP1137*	11	White with Blue/Yellow Flecks	18.5 kg	200 m	3475 kg
RPRP1107	11	Fluro Orange with Blue/Yellow Flecks	18.5 kg	200 m	3475 kg
RPRP1108	11	Black	18.5 kg	200 m	3475 kg
RPRP1109*	11	Blue	18.5 kg	200 m	3475 kg
RPRP1149*	11	Black with 4 Green Flecks	18.5 kg	200 m	3475 kg
RPRP1114P	11	Fluro Pink with Black Flecks	18.5 kg	200 m	3475 kg
RPRP1114	11	Fluro Orange with Black Flecks	18.5kg	200m	3475kg
RPRP1138	11	Fluro Lime with Black Flecks	18.5 kg	200 m	3475 kg
RPRP1139	11	Fluro Yellow with Black Flecks	18.5 kg	200 m	3475 kg
RPRP1300	13	Fluro Orange with Black/Yellow Flecks	24.5 kg	200 m	4750 kg
RPRP1602*	16	Fluro Orange with Blue/Yellow Flecks	19.5 kg	100 m	6900 kg
<b>Response® XT</b>					
RPRP1141	11	Tiger Orange with 4 Black Flecks	18.5 kg	200 m	3475 kg
RPRP1140*	11	Blue	18.5 kg	200 m	3475 kg

\* Made to order in New Zealand but stocked in Australia.



## RESPONSE® CERTIFICATION CRITERIA

Criteria	Australian Standard Certification			European Standard Certification		
	Actual Test Results	AS4142.3:1993	Certified Compliant	Actual Test Results	EN1891 Type A	Certified Compliant
Actual Break Force (Avg.kN)	34.08 kN	>29.4 kN	Yes	34.3 kN	(A) > 22 kN	Yes
Static Strength Without Terminations	31.9 kN			31.9 kN	≥ 22 kN	Yes
Static Strength With Terminations				≥ 15kN	≥ 15kN	Yes
Knot Break Force (Avg.KN)	19.00 kN	>14.7 kN	Yes			
Impact (Fall Test)	3.75 Falls	> 2 Falls (80kg)	Yes			
Dynamic Performance (N)	5 Drops			5 Drops	N ≥ 5 Drops	Yes
Elongation (E)				3.2%	E < 5%	Yes
Fall Arrest Peak Force (F)				5.3 kN	F ≤ 6 kN	Yes
Knotability Ratio (K)	1.04	< 1.1	Yes	1.18%	K < 1.2	Yes
Sheath Slippage (Ss)	3.5mm	≤ 40mm	Yes	0.3%	Ss < V * 100 / 1.930mm	Yes
Shrinkage				2.6%	Described in 5. 7 of the standard	Yes
Core Mass	49%			57.9%	(A) Formula	Yes
Outer Sheath Mass	51%					
Mass Per Unit Length (M)	91 g/m			91 g/m	Described in 5.8 of the standard	Yes
Mass Of Outer Sheath Material (Sp)				51%	Sp min ≥ 30%	Yes
Mass Of The Core Material ©				49%	C min ≥ 32%	Yes
Core Material	Nylon					
Sheath Material LSK	Polyester					
Sheath Material XT	Nylon					
Rope Diameter (D)	11.4mm			11.4mm	8.5mm ≤ D ≤ 16mm	Yes

Note: Above results relate to independent testing of 11mm Response® braid

## TERMINATION

- Sewn eye options available upon request
- Sewn eyes suitable for 11mm, 13mm & 16mm
- Soft eye, Nylon thimble or steel thimble options available
- Retains a higher tensile strength than a conventional splice
- Labelled for ease of traceability



## FIBRE CHARACTERISTICS

Fibre:Type	Description	Specific Gravity	Sensitive to	Resistant to	Heat Reaction	Strength & Elongation
<b>Polyester</b>	Continuous Filament	1.38	Alkalis, phenolic compounds, sulphuric acid	Most organic & mineral acids, organic solvents, bleaches & oxidising agents	Softens 228°C Melts 255°C	Equivalent wet/dry strength ratio. Elongation 35% at Break
<b>Nylon</b> (Polyamide)	Continuous Filament	1.14	Strong acids and oxidising agents, soluble in formic, sulphuric acids and phenolic compounds	Alkalis, alcohols, esters, hydrocarbons and most bleaches	Softens 229°C Melts 249°C - 260°C	Elongation Dry 40%. Wet 35%. 90-95% strength ratio wet/dry