

## THE FREEDOM TO UNIVERSALLY SUSPEND WITHOUT THE WASTAGE



The range consists of a range of wire reels and clips with a choice of Safe Working Load:

- Green 10kg
- Silver 60kg
- Yellow 120kg
- Purple 230kg

- No pre-site visits required
- Any spare material can be used on following projects
- Only wire cutter required
- Can be used as a wrap around application and with a wide range of brackets
- Key free release system

### APPLICATION

- Wrap around applications
- Suitable for use with a wide range of fixing brackets including:  
UN11, UN12, CLA1, HAT1, MA6810, T920514
- Available with stainless steel wire for food and chlorinated environments



For full technical details please see pages 12 and 13.

PURPLE  
230kg SWL



YELLOW  
120kg SWL



SILVER  
60kg SWL

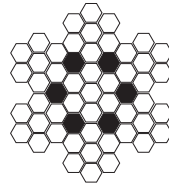


GREEN  
10kg SWL



**WIRE**

The high tensile wire we supply is galvanised and manufactured to the highest standards incorporating a 7x7 construction, meeting the BSEN 12385 standard.



Rize Code	MBL of Wire Rope	Construction	Tensile Strength
GREEN	78 KG	7X7 (6/1) RHRL	1960 n/mm <sup>2</sup>
SILVER	290 KG	7X7 (6/1) RHRL	1960 n/mm <sup>2</sup>
RED	400KG	7X7 (6/1) RHRL	1960 n/mm <sup>2</sup>
YELLOW	645 KG	7X7 (6/1) RHRL	1960 n/mm <sup>2</sup>
PURPLE	1240KG	7X7 (6/1) RHRL	1960 n/mm <sup>2</sup>

BSMA 29/1983 standard, also meeting the AISI 316 requirements.

The table below shows the effect on the Safe Working Load when working at an angle from vertical.

Colour Code	Vertical	15°	30°	45°	60°
GREEN	10kg	9.6kg	8.6kg	7.0kg	5.0kg
SILVER	50kg	48.0kg	43.0kg	35.0kg	25.0kg
SILVER	60kg	57.6kg	51.6kg	42.0kg	30.0kg
RED	100kg	98.0kg	86.0kg	70.0kg	50.0kg
YELLOW	120kg	115.2kg	103.2kg	84.0kg	60.0kg
PURPLE	230kg	220.8kg	197.8kg	161.0kg	115.0kg
LOAD	100%	96%	86%	70%	50%

**CLIP**

PHYSICAL PROPERTIES		
Density	6,700kg/m <sup>3</sup> at 21°C	
Solidification shrinkage	1.17%	
Casting shrinkage	0.6% (pressure diecasts)	
Freezing range	381-387°C	
Melting point	400-42°C	
Specific heat capacity	418.1 J/kg°C at 20-100°C	
Thermal expansion	27 10 (-6) linear per °C at 20-100°C	
Thermal conductivity	108.9 W/m/hr/m <sup>2</sup> /°C at 70 - 140°C	
Electrical conductivity	26% IACS	
Electrical resistivity	6.5359 um ohm cm at 20°C	
MECHANICAL PROPERTIES		
	As cast	Aged
Tensile strength (MPa)	328	269
Shear strength (MPa)	262	-
Elongation (% in 51mm)	7	13
Hardness (Brinell - 500kg)	91	80
Impact strength (Energy, Joules)	65.1	54.2
Fatigue strength 5x10 cycles (MPa)	56.5	-
TYPICAL ANALYSIS - ALLOYING ELEMENTS		
Aluminium	4%	
Copper	1%	
Magnesium	0.05%	
TYPICAL ANALYSIS - IMPURITIES		
Iron	<0.01%	
Lead	<0.003%	
Cadmium	0.003%	
Tin	<0.001%	
Nickel	<0.001%	
Silicon	<0.01%	

## 10kg SWL

PRODUCT CODE	DESCRIPTION	SAFE WORKING LOAD
KL50	Rize 10kg SWL 5:1 SF	10kg SWL
R200GREEN	200 Metres 10kg SWL Green Reel	10kg SWL

## 60kg SWL

KL100	Rize 100kg SWL 5:1 SF	60kg/100kg SWL
R100SILVER	100 Metres 60kg SWL Silver Reel	60kg SWL
R200SILVER	200 Metres 60kg SWL Silver Reel	60kg SWL
R500SILVER	500 Metres 60kg SWL Silver Reel	60kg SWL

## 100kg SWL

R100RED	100 Metres 100kg SWL Red Reel	100kg SWL
R200RED	200 Metres 100kg SWL Red Reel	100kg SWL

## 120kg SWL

KL150	Rize 120kg SWL 5:1 SF	120kg SWL
R100YELLOW	100 Metres 120kg SWL Yellow Reel	120kg SWL

## 230kg SWL

KL200	Rize 230kg SWL 5:1 SF	230kg SWL
R100PURPLE	100 Metres 230kg SWL Purple Reel	230kg SWL

## Stainless Steel Range AISI 316

PRODUCT CODE	DESCRIPTION	SAFE WORKING LOAD
R100 GREENSS	100 Metres 10kg SWL Green Stainless Steel AISI 316	10kg SWL
R100 SILVERSS	100 Metres 60kg SWL Silver Stainless Steel AISI 316	60kg SWL
R100 REDSS	100 Metres 100kg SWL Red Stainless Steel AISI 316	100kg SWL
R100 YELLOWSS	100 Metres 120kg SWL Yellow Stainless Steel AISI 316	120kg SWL
R100 PURPLESS	100 Metres 230kg SWL Purple Stainless Steel AISI 316	230kg SWL

## INSTALLATION METHOD

### KL50, KL100 & KL150

- Cut wire to desired length for the drop required
- Pass one end of the wire through the clip in the direction of the arrow and draw enough wire to go around your fixing point
- Pass the wire end back through the clip drawing through at least 6cm of free end
- At the other end again pass the wire through the clip in the direction of the arrow
- Pass the free end of wire around your suspension or through your fixing and back through the clip.



### KL200

A suspension using two KL200's can be made as above. Instructions for making a suspension using one clip are as below:

- Thread the wire rope into the "through hole" in the KL200 and then around your fixing or anchor point
- Pass the wire end now through the locking channel in the KL200 pull through 15cm of free wire
- Pass the other end of wire rope through your bracket or around your suspension and back through locking channel again allowing 15cm of free wire through the clip.

