



# CATALOG

CONTINUOUS BELAY SYSTEM | OTHER MATERIALS

[WWW.KOALA-EQUIPMENT.COM](http://WWW.KOALA-EQUIPMENT.COM)



# WIRE ROPES & ACCESSORIES

> GENERAL INFORMATION

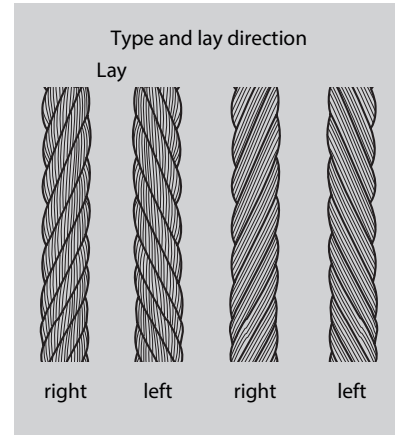
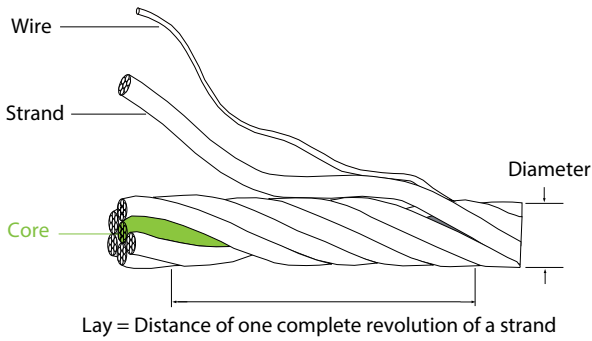
> WIRE ROPES

> WIRE ROPE ACCESSORIES

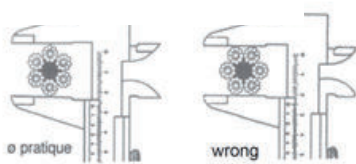
> TOOLS

> HARDWARE

# GENERAL INFORMATION



## Measuring the diameter



Correct

Wrong

## Interpreting wire rope information

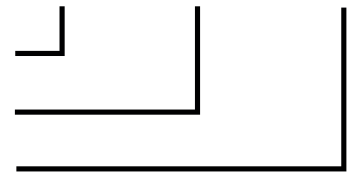
**Ø12 mm 7 x 19 WS**

(0.47 in)

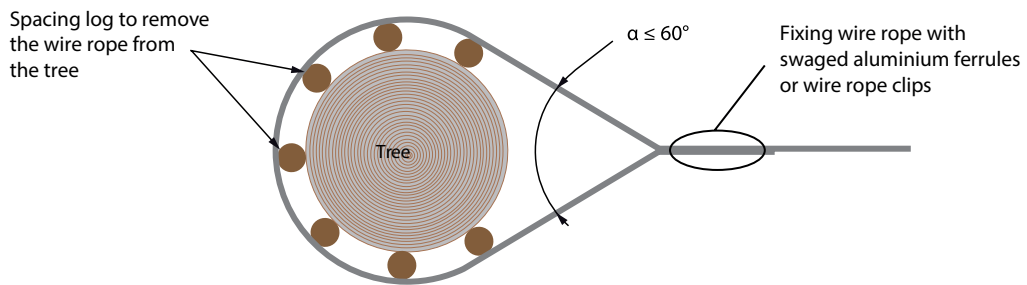
7 strands

19 wires per strand

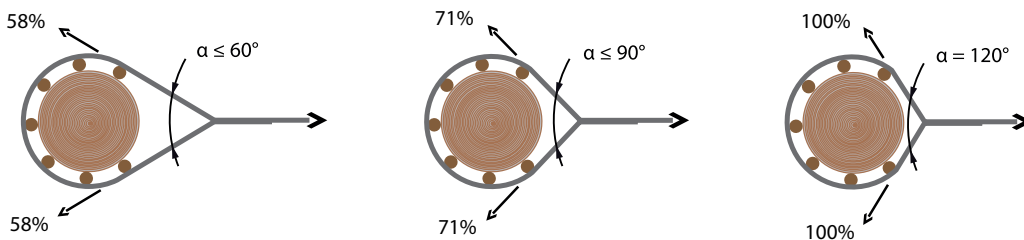
Wire strand core



## INSTALLING A WIRE ROPE



## ANGLES & FORCES



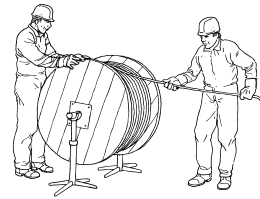
**TRANSPORT & UNWINDING OF WIRE ROPES**



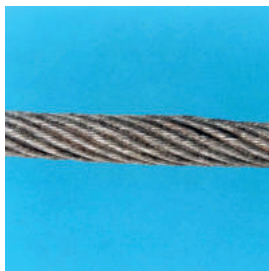
**OK**



**OK**



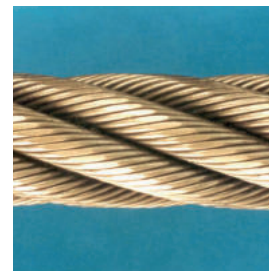
**SOME EXAMPLES OF DEFAULT**



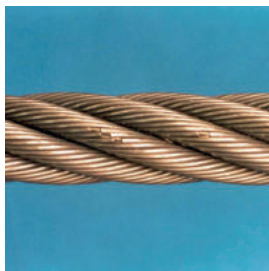
Increase in diameter due to the extrusion of the core



Kink



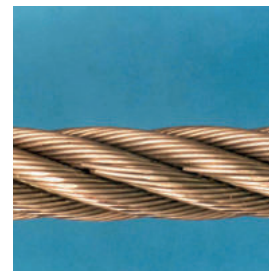
External wear



Broken wires

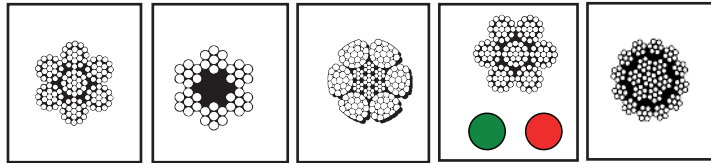


Reduction in wire rope diameter (hollowstand)

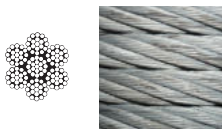


Broken wires in the grooves

# WIRE ROPES



USE					
LIFELINE					
ZIPLINE					
OBSTACLE SUPPORTING WIRE ROPE					
BRACE CABLE					
HANDRAIL					
SAFETY LOOP					
TECHNICAL INFORMATION					
CORE	Wire strand core	Fiber core	Wire strand core	Wire strand core	Wire strand core
STRAND RESISTANCE	1770 N / mm <sup>2</sup>	1770 N / mm <sup>2</sup>	2160 N / mm <sup>2</sup>	1770 N / mm <sup>2</sup>	1960 N / mm <sup>2</sup>
MIN. BREAKING LOAD	110 kN	110 kN	142 kN	60 kN	94 kN
MAX. WORKING LOAD	22 kN	22 kN		12 kN	19 kN
SAFETY FACTOR	5	5	5	5	5

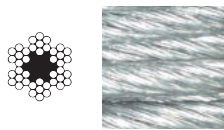


**7 x 19 WSC GALVANIZED WIRE ROPE Ø12 mm (Ø 0.47in)**

REF : CA04

REF : CA04-B100  
100 m (3937 in) (328 ft)  
REEL

REF : CA04-B250  
250 m (9842 in) (820 ft)  
REEL

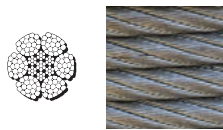


**6 x 7 FC LANG'S LAY GALVANIZED WIRE ROPE Ø12 mm (Ø 0.47in)**

REF : CA05

REF : CA05-B250  
250 m (9842 in) (820 ft)  
REEL

REF : CA05-B500  
500 m (19685 in) (1640 ft)  
REEL

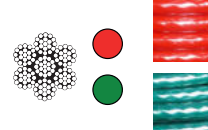


**6 x 26 WSC GALVANIZED SWAGED WIRE ROPE IWRC Ø12 mm (Ø 0.47in)**

REF : CA12

REF : CA12-B250  
250 m (9842 in) (820 ft)  
REEL

REF : CA12-B500  
500 m (19685 in) (1640 ft)  
REEL

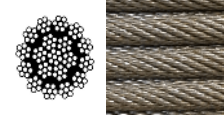


**7 x 19 WSC Ø12 mm RED PLASTIC COATED WIRE ROPE Ø10 mm INT (Ø 0.39 in) / 12 mm (Ø 0.47in) EXT**

REF : CA01  
RED | CUT TO SIZE

REF : CA01-B200  
RED | 200 m (7874in) (656 ft)  
REEL

REF : CA02  
GREEN | CUT TO SIZE



**19x7 WSC ROTATION RESISTANT GALVANIZED WIRE ROPE Ø12mm (Ø 0.47in)**

REF : CA11-B250  
250 m (9842 in) REEL



## WIRE ROPE ACCESSORIES



### Ø12 mm (0.47 in) SWAGED THIMBLED WIRE ROPE 2 SOLID THIMBLES

REF : CA07-10 CUT TO SIZE

- Can resist tensions above 6000 daN : the wire rope thimbles doesn't deform under high tension
- Ø12 mm 7x19 WSC
- 2 swaged solid thimbled ends
- Length : cut to size | Up to 10 m (33 ft)
- Weight : 5 kg (11 lbs) for 7 m (23 ft)



### Ø12 mm (0.47 in) SWAGED THIMBLED WIRE ROPE 1 SOLID THIMBLE

REF : CA08-10 CUT TO SIZE

- Can resist tensions above 6000 daN
- Ø12 mm 7x19 WSC (Galvanized wire rope sling)
- 1 swaged solid thimbled end
- 1 free end
- Length : cut to size | Until 10 m (33 ft)
- Weight : 6 Kg (13 lbs) for 10 m (33 ft)



### Ø12 mm (0.47 in) SWAGED THIMBLED WIRE ROPE 2 THIMBLES

REF : CA06-10 CUT TO SIZE

- For tensions below 6000 daN
- Ø12 mm 7x19 WSC (Galvanized wire rope sling)
- 2 swaged thimbled ends
- Length : cut to size | Up to 10 m (33 ft)
- Weight : 4.6 kg (10 lbs) for 7 m (23 ft)



### WIRE ROPE CLIP « CE » FOR Ø12 mm (0.47 in) WIRE ROPE

REF : QU130-12

- Hot drop forged wire rope clip
- Compliant with European Standard EN 13411-5 « Steel ends / Security / U-shaped wire rope clip »
- Weight : 130 g (0.3 lbs)



### WIRE ROPE CLIP « DIN 741 » FOR Ø12 mm (0.47 in) WIRE ROPE

REF : QU52-13

- Zinc plated wire rope clip DIN 741
- Weight : 122 g (0.3 lbs)



### SOLID ROPE THIMBLE S412-1/2

REF : QU13

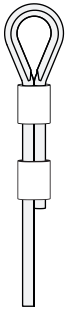
- Allows 16 insert a connector and expert a strong tension on the wire rope
- For Ø12 mm (0,47 in) wire rope
- Weight : 270 g (0.6 lbs)



### Ø13 mm WIRE ROPE THIMBLE

REF : QU01-13

- For Ø 12 mm (0,47 in) and Ø13 mm (0,51 in) wire rope
- Weight : 80 g (0.2 lbs)



### ALUMINIUM FERRULE N°13 FOR SWAGING 2 Ø12 mm WIRE ROPES

REF : QU36-13

- To attach 2 wire ropes together
- Aluminium ferrule Ø int : ½" in
- To crimp with crimping tool REF : OU01-42CFM
- Weight : 60 g (0.1 lbs)



### 2 CLEVIS TURNBUCKLE HR

REF : QU55-305 STROKE 305 mm (12 in)  
REF : QU55-457 STROKE 457 mm (18 in)

- Installed at the end of the zipline, to adjust zipline rope tension
- Threaded rod Ø : 22.2 mm (Ø 7/8 in)
- WLL : 3.27 t
- Weight : 4.3 kg (9.5 lbs) and 4.9 kg (10.8 lbs)





## TOOLS



### ELECTRO-HYDRAULIC CRIMPING TOOL - 120 kN (KLAUKE)

REF : OU01-42CFM TO PURCHASE  
REF : OU03 FOR RENT

- Crimping tool for swaging lifeline ferrules, aluminium and copper ferrules
- 2 speed hydraulic pump with fast-forward, automatic return after crimping, manual return if needed
- Power : 120 kN
- Included : 1 battery (Lithium ion 18 V) MAKITA
- To be used with a pair of dies adapted to the wire rope / not included
- Weight : 13 kg (28.7 lbs)



### BATTERY FOR KLAUKE CRIMPING TOOL (MAKITA)

REF : OU10-5A

- Fast battery charger
- 18 V / 5 A
- Weight : 640 g (1.4 lbs)



### BATTERY CHARGER DC18RA - 18V (MAKITA)

REF : OU11

- 18 V
- Weight : 950 g (2.1 lbs)



### HAND-OPERATED HYDRAULIC CRIMPING TOOL 120 kN

REF : OU05-HK12042

- Crimping tool for manually swaging lifeline ferrules, aluminium and copper ferrules
- Power : 120 kN
- To be used with a pair of dies adapted to the wire rope / not included
- Weight : 9.3 kg (20.5 lbs)

**PAIR OF DIES « 13 / 95 » - MONOCABLE FERRULE Ø12 mm (Ø 0.47 in)**



REF : **OU02-1395** FOR CONTINUOUS BELAY SYSTEM FERRULES  
- Weight : 220 g (0.5 lbs) | Price per pair

**PAIR OF DIES « 13 / 120 » - MONOCABLE FERRULE Ø1/2" in**

REF : **OU02-13120US** FOR CONTINUOUS BELAY SYSTEM FERRULES

**PAIR OF DIES « 13 / 235 » - FOR ALUMINIUM FERRULES ON DOUBLE WIRE ROPE Ø12 mm (Ø 0.47 in)**



REF : **OU02-13235**  
- Weight : 220 g (0.5 lbs) | Price per pair

**IZUMI S-20 MANUAL HYDRAULIC CUTTER**



REF : **OU08**  
- Weight : 2.8 kg (6.2 lbs)

**IZUMI S-20 BLADE FOR MANUAL CUTTER**



REF : **OU09**  
- Weight : 37 g (0.1 lbs)

**FLAT WEB SLING EYE**



REF : **OU15-150** FLAT WEB SLING EYE & EYE SWL 20kN  
- Length 1.5m (4'11") | Weight : 570 g (1.3 lbs)

REF : **OU15-300** FLAT WEB SLING EYE & EYE SWL 20kN  
- Length 3m (9'10") | Weight : 1 kg (2.2 lbs)



## CABLE PULLER

REF : OU06-LMG1 LMG1

- For wire rope Ø5-15 mm (Ø 0.2-0.6 in)
- Load 20 kN | Weight : 1.62 kg (3.6 lbs)

REF : OU06-LMG2 LMG2

- For wire rope Ø8-20 mm (Ø 0.3-0.8 in)
- Load 30 kN | Weight : 2.9 kg (6.4 lbs)



## LEVER HOIST

REF : OU14-250 250 kg (551 lbs) ELEPHANT / Weight : 2.15 kg (4.8 lbs)

REF : OU14-750 750 kg (1764 lbs ) ELEPHANT / Weight : 3.50 kg (7.7 lbs)

REF : OU14-1600 1600 kg (3527 lbs) ELEPHANT / Weight : 9.50 kg (21 lbs)

- ELEPHANT lever hoist specially designed for the tensioning of ziplines and heavy load handling



## PIEZO EXPRESS BLOW TORCH 8900

REF : OU17

- Open and adjust the gas flow
- Piezo ignition and locking plate
- Weight : 630 g (1.4 lbs)
- Sold without gas cartridge
- Great autonomy (1h15)



## GAS CARTRIDGE EXPRESS 8191

REF : CS05-8191 FOR EXPRESS 8900

- For blowtorches or other appliances that use type 200 butane gas cartridges
- Weight : 190 g (0.4 lbs)



## RATCHET PODGER SPANNER - 17 mm (0.67 in) and 19 mm (0.75 in)

REF : OU26-17 19

- Double wrench, ratchet
- Reversible right / left
- Weight : 475 g (1.1 lbs)



### **DRIFT PUNCH - 4 mm (0.15 in) (FACOM)**

REF : OU12

- Diameter : 4 mm (0.15 in)
- Weight : 60 g (0.1 lbs)



### **THREADLOCKER LOCTITE 243 - MEDIUM STRENGTH**

REF : CS17-243 05

- Prevents loosening on vibrating connections
- Works on all metals, including passive substrates (e.g. stainless steel, aluminium, plated surfaces)
- P1 NSF Reg. No.: 123000
- Color : Blue
- Weight : 5 g (0.01 lbs)



### **THREADLOCKER LOCTITE 270 - HIGH STRENGTH**

REF : CS17-270 05

- High-strength general threadlocker for maximum efficiency
- Prevents loosening on vibrating connections
- Works on all metals, including passive substrates (e.g. stainless steel, aluminium, plated surfaces)
- P1 NSF Reg. No.: 123006
- Color : Green
- Weight : 5 g (0.01 lbs)

# HARDWARE



## THREADED ROD

REF : QU57-12X1000 Ø M12 x 1 m ( Ø 3.3 ft) / Classe : 4.8  
REF : QU57-18X1000 Ø M18 x 1 m ( Ø 3.3 ft) / Classe : 4.8  
REF : QU58-18X1000 Ø M18 x 1 m ( Ø 3.3 ft) / Classe : 8.8  
REF : AC10-1500 Ø M18 (Ø 0.7 in) x 1.50 m (4.9 ft) WITH ACCESSORIES

- Fully threaded



## WELDED CHAIN Ø6 x 42 mm (Ø 0.2 x 1.7 in)

REF : QU09

- Weight : 620 g (1.4 lbs)  
- Galvanized steel



## BOW SHACKLE BOLT

REF : QU112-325 WORKING WLL : 32.5 kN  
REF : QU112-475 WORKING WLL : 47.5 kN  
REF : QU112-650 WORKING WLL : 65 kN

- Crosby® Bow shackle bolt and pin type G21300C with thin bolt head and pin nut  
- Complies with the Federal Specification RR-C-271D Type IVA, Grade A, Class 3  
- High strength alloy steel



## 2 EYE TURNBUCKLE

REF : QU53-08 Ø8 mm (Ø 0.3 in)  
REF : QU53-12 Ø12 mm (Ø 0.5 in)



## GALVANIZED STEEL CLAMP Ø125 mm (Ø 4.92 in)

REF : PR16-GAL FOR PVC TUBE Ø125 mm (4.92 in)

- Internal diameter : Ø160mm (Ø 6.29 in)  
- External diameter : Ø220mm (Ø 8.66 in)  
- Weight : 45 g (0.1 lbs)



## REINFORCED CLEAR HOSE ØINT 22 mm (0.9 in) ØEXT 16 mm (0.6 in)

REF : PR20-45 LENGTH : 45 cm (17.71 in)  
REF : PR20-65 LENGTH : 65 cm (25.59 in)

## SALES, DELIVERY TERMS & CONDITIONS

### GENERAL PRINCIPLES

These General Terms of Sale apply in their entirety to all sales of ALTUS / KOALA EQUIPMENT products in France and Worldwide.

They prevail over any general terms of purchase or other documents issued by the Client, regardless of the terms. Any order sent to ALTUS / KOALA EQUIPMENT implies unconditional acceptance of ALTUS / KOALA EQUIPMENT's prices and these General Terms of Sale. They supersede all previous general terms of sale.

The fact that ALTUS / KOALA EQUIPMENT does not invoke at a given time, any of these General Terms of Sale shall not be construed as a waiver to subsequently enforce any of the said terms.

### Ordering

There are different ways of ordering :

- online on our website : [www.koala-equipment.com](http://www.koala-equipment.com)
- by phone on 0033 (0)4 50 97 50 19 from Monday to Friday from 8am to 12am and from 1:30pm to 5pm (French hours)
- by e-mail at : [info@koala-equipment.com](mailto:info@koala-equipment.com)
- by fax on 0033(0)4 50 97 50 11
- or by (snail) mail : ALTUS / KOALA EQUIPMENT - 1191 route de Bidaille - 74930 SCIENTRIER - FRANCE.

To validate your order, please fill out the required information (selected products, payment method, delivery information, e-mail) and make your payment.

Orders can only be carried out by an adult ( $\geq 18$  years old).

### Confirmation of your order

Upon receipt of your order, a quote will be sent indicating the shipping cost of your package and the amount for the materials ordered. We undertake to send you this quote within 48 hours (French working days).

Upon receipt of our e-mail quote, 3 methods of payment are available to confirm your order :

- by credit card through a secured link.
- by phone with your credit card number.
- by check if your bank is in France.

The order will become final once ALTUS / KOALA EQUIPMENT has confirmed by e-mail.

### Pricing

Product prices are shown without VAT. Your invoice will include VAT if applicable. The VAT rate applied will be the one in place in France when you validate your order. An order is validated when the payment is received. In case of a change in the VAT rate the new rate will apply to all those orders not validated with a payment.

Product prices are exclusive of shipping costs, customs fees and tax.

All prices may be subject to typographical errors.

Discounts apply to the online store pre-tax prices and do not include transport fees. There are no discounts on the purchase of Freestanding courses.

Pricing could change due to exchange rate modifications.

### Package, postage & shipping costs

Shipping costs will be charged in addition to the price of the product, according to the weight and size of the parcel. They are calculated as accurately as possible by choosing the most suitable carrier for your package based on your shipping address.

Upon receipt, open the package in front of the carrier. If damaged in shipping, inform the carrier by making all reservations on the carrier's delivery voucher as he alone is responsible. Confirm in writing by registered letter within three days. The shipping company should compensate you.

### Payment

You can make your payment by check if your bank is in France or by credit card which is the fastest and the most convenient method.

Credit cards issued by banks outside France must be international bank cards. When paying by credit card, the amount of your order is debited at the time of dispatch.

Payment by check is only possible for checks in Euros drawn on a bank in France. The check will be cashed upon receipt.

The check should be made payable to «ALTUS / KOALA EQUIPMENT», and sent to the following address :

ALTUS / KOALA EQUIPMENT  
1191 Route de Bidaille  
74930 SCIENTRIER FRANCE

The items will only be sent once the check has been cashed.

### Retention of title

The goods remain our property until full payment. Risks relating to the goods sold (loss, damage) are however transferred to the buyer upon dispatch from our premises.

### Invoices

The invoice is sent in the package with your delivery. If the billing address is different from the delivery address, the invoice will be sent by e-mail or by post. Please note that purchase orders and confirmations cannot serve as invoices.

### Complaints

Any dispute about the nature or quantity of items received must be communicated to us within 48 hours of receipt. We will attempt to solve any difficulties to do with your orders and their payment with you directly. Understanding and good will can dispel many incidents ... of which there are thankfully few. However, if no solution were to be found, all disputes will be dealt with by the Commercial Court, 10 rue de l'Hotel de Ville, 74200 Thonon les Bains, France.

### Cancellation rights

You have 7 days after purchase, to return a product without having to justify its return. The material must obviously be new, in perfect condition and returned in its original packaging. Together with the material, which must be returned at your own expense (any collect shipment will be refused), please enclose an explanatory letter and the invoice or a photocopy of the invoice. In case of an error on our part or a product defect, the shipment costs will be refunded based on standard postage fees.

### Guarantee

Before returning a product, to avoid any misunderstanding please consult with us.  
Used items : the items are sold under manufacturer warranty.  
Wear and tear is obviously excluded from this warranty.  
Any items returned for repair or warranty claim must be clean and dry.

### Precautions regarding the use of material

Improper installation or use of equipment and materials for High Wire Adventure Courses is potentially dangerous (risk of death) ; for your safety you must ensure that you fully master the installation of materials and equipment before use. ALTUS / KOALA EQUIPMENT disclaims any liability or responsibility for accidents.

### Compliance with the instructions for use of PPE

Each PPE (Personal Protective Equipment) comes with an instruction manual as laid down by the European standard. It is the buyer's responsibility to comply.

## TERMS OF DELIVERY

### Shipping costs

The first stage of the confirmation of the order requires that you create an account as the shipping address is important for shipping fees.

Shipping fees are always calculated on a case by case basis, upon receipt of your order.

A quote is then sent indicating the shipping costs for your package and the amount for the materials ordered.

We undertake to send you this quote within 48 hours (French working days).

Upon receipt of our e-mail quote, 3 methods of payment are available to complete your order :

- by credit card through a secured link
- by phone with your credit card number
- by check if your bank is in France.

We can dispatch items to virtually any address in the world. However, warranty issues, manufacturer restrictions and customs laws prevent us from shipping certain products to certain geographical locations.

### Delivery

Orders are dispatched the day we receive your payment (depending on the availability of the product and the delivery company).

In France : Delivery time is 48 to 72 hours (depending on the availability of the product and the delivery company).

### Availability

In case the product is not in stock, delivery times will be in function of manufacturers' and/or suppliers' deadlines.

In the event of unavailability of a product after placing your order, we will notify you by e-mail or phone once we have received the information from the suppliers. Your order will be cancelled and you will be refunded within 30 days of your payment.

ALTUS / KOALA EQUIPMENT - 1191 route de Bidaille 74930 SCIENTRIER -FRANCE)  
RCS Thonon les Bains : 411 354 962 00044 / Legal Notice/ Sales terms  
TEL : 00 33(0)4 50 97 50 19 / e-mail : info@koala-equipment.com


































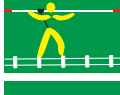
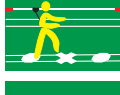















## PRICES EUR





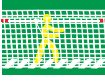
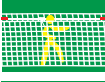


















REFERENCE	NAME	PRICE
CA04-B100	7x19 WS Galvanized wire rope Ø12 mm (0,47 in) - 100 m reel (328,08 ft)	195,00 €
CA04-B250	7x19 WS Galvanized wire rope Ø12 mm (0,47 in) - 250 m reel (820,21 ft)	487,50 €
CA05-B250	6x7 FC Lang's lay galvanized wire rope Ø 12mm (0,47 in) - 250 m reel (820,21 ft)	1 341,25 €
CA05-B500	6x7 FC Lang's lay galvanized wire rope Ø12 mm (0,47 in) - 500 m reel (1640,42 ft)	2 682,50 €
CA12-B500	6x26 WS Galvanized swaged wire rope IWRC Ø12 mm (0,47 in) - 500 m reel (1640,42 ft)	3 468,75 €
CA01-B200	7x19 WS Red plastic coated wire rope EXT Ø12 mm (0,47 in) INT Ø10 mm (0,39 in) - 200 m reel (656,16 ft)	806,60 €
CA11-B250	19x 7 WSC Rotation resistant Galvanized wire rope Ø12 mm (0,47 in) - 250 m reel	575,00 €
CA07-10	Ø12 mm (0,47 in) Swaged thimbled wire rope with 2 solid thimbles	135,47 €
CA08-10	Ø12 mm (0,47 in) Swaged thimbled wire rope with 1 solid thimble	90,84 €
CA06-10	Ø12 mm (0,47 in) Swaged thimbled 12 mm wire rope with 2 thimbles	65,73 €
QU130-12	Wire rope clip CE for Ø12 mm (0,47 in) wire rope	1,09 €
QU052-13	Wire rope clip DIN 741 for Ø12 mm (0,47 in) wire rope	0,69 €
QU13	Solid rope thimble S412-1/2	32,57 €
QU01-13	Ø13 mm (0,51 in) wire rope thimble	0,74 €
QU36-13	N°13 Aluminium ferrule for swaging 2 wire ropes Ø12 mm (0,47 in)	0,84 €
QU55-305	2 Clevis turnbuckle, stroke 305 mm (12 in)	66,00 €
QU55-457	2 Clevis turnbuckle, stroke 457 mm (17,99 in)	99,00 €



## PRICES \$












REFERENCE	NAME	PRICE
CA04-B100	7x19 WS Galvanized wire rope Ø12 mm (0,47 in) - 100 m reel (328,08 ft)	\$259,55
CA04-B250	7x19 WS Galvanized wire rope Ø12 mm (0,47 in) - 250 m reel (820,21 ft)	\$648,86
CA05-B250	6x7 FC Lang's lay galvanized wire rope Ø 12mm (0,47 in) - 250 m reel (820,21 ft)	\$1 785,20
CA05-B500	6x7 FC Lang's lay galvanized wire rope Ø12 mm (0,47 in) - 500 m reel (1640,42 ft)	\$3 570,41
CA12-B500	6x26 WS Galvanized swaged wire rope IWRC Ø12 mm (0,47 in) - 500 m reel (1640,42 ft)	\$4 616,91
CA01-B200	7x19 WS Red plastic coated wire rope EXT Ø12 mm (0,47 in) INT Ø10 mm (0,39 in) - 200 m reel (656,16 ft)	\$1 073,58
CA11-B250	19x 7 WSC Rotation resistant Galvanized wire rope Ø12 mm (0,47 in) - 250 m reel	\$765,33
CA07-10	Ø12 mm (0,47 in) Swaged thimbled wire rope with 2 solid thimbles	\$180,31
CA08-10	Ø12 mm (0,47 in) Swaged thimbled wire rope with 1 solid thimble	\$120,91
CA06-10	Ø12 mm (0,47 in) Swaged thimbled 12 mm wire rope with 2 thimbles	\$87,49
QU130-12	Wire rope clip CE for Ø12 mm (0,47 in) wire rope	\$1,45
QU052-13	Wire rope clip DIN 741 for Ø12 mm (0,47 in) wire rope	\$0,92
QU13	Solid rope thimble S412-1/2	\$43,35
QU01-13	Ø13 mm (0,51 in) wire rope thimble	\$0,98
QU36-13	N°13 Aluminium ferrule for swaging 2 wire ropes Ø12 mm (0,47 in)	\$1,12
QU55-305	2 Clevis turnbuckle, stroke 305 mm (12 in)	\$87,85
QU55-457	2 Clevis turnbuckle, stroke 457 mm (17,99 in)	\$131,77

	Canyon Crossing		Wobbly Ladder		Skate Slide
	<b>106</b> Victoria Bridge		<b>130*</b> Zigzag Bridge		<b>174*</b> Pnotta Bridge
	<b>107</b> Stirrups		<b>131*</b> Stepping Stones		<b>175*</b> Needwood Crossing
	<b>108</b> Infernal Traverse		<b>132*</b> Tunnel Crossing		<b>176*</b> Pännjarve Bridge
	<b>109*</b> Jungle Crossing		<b>133</b> Tightrope Walk		<b>177*</b> Zigzag Trapeze
	<b>110*</b> Net Bridge		<b>134*</b> Chinese Crossing		<b>178</b> Half Zigzag Trapeze
	<b>111*</b> Spider's Web		<b>135</b> Double Stirrups		<b>179*</b> Evje Crossing
	<b>112*</b> Trapeze		<b>136</b> Half Stirrups		<b>180*</b> Coed Crossing
	<b>113*</b> Railtrack		<b>137*</b> Alpine Zip Slide		<b>181*</b> Flying Carpet
	<b>114</b> Log Swing		<b>138</b> Chantemerle Bridge		<b>182</b> Half Flying Carpet
	<b>115*</b> Zip Slide		<b>139</b> Overhanging Crossing		<b>183*</b> Criss Crossing
	<b>116*</b> Indian Bridge		<b>140</b> Giant's Step		<b>184*</b> Half Criss Crossing
	<b>117</b> Tarzan Swing		<b>141</b> Half Stepping Stones		<b>185*</b> Tic Tac Toe
	<b>118*</b> Shuffle		<b>142*</b> Turtle Bridge		<b>186*</b> Half Tic Tac Toe
	<b>119*</b> Goat Crossing		<b>143</b> Tank Trap		<b>187*</b> Itchen Crossing
	<b>120*</b> Japanese Bridge		<b>144</b> Rope Trapeze		<b>188</b> Fuji Crossing
	<b>121*</b> Net Canyon		<b>145*</b> English Crossing		<b>189*</b> Chess Crossing
	<b>122*</b> Log Bridge		<b>146*</b> Bedok Bridge		<b>190*</b> Half Chess Crossing
	<b>123</b> Half Trapeze		<b>147*</b> Yamazoe Steps		<b>191</b> Pirate Crossing
	<b>124*</b> Ladder Crossing		<b>148*</b> Velbert Bridge		<b>192*</b> Big U



-  **193**  
Small U
-  **194\***  
Aravis Crossing
-  **195\***  
Crossing Wall
-  **196\***  
Half Pipe
-  **197\***  
Coolongalook Crossing
-  **198\***  
High Tibetan Bridge
-  **199\***  
Uluwatu
-  **200**  
Half Uluwatu
-  **202\***  
Net & Plank Tunnel
-  **203\***  
Water Lily
-  **204\***  
Half Water Lily
-  **205\***  
Khatanga Crossing
-  **206\***  
Half Khatanga Crossing
-  **207\***  
Chamonix Crossing
-  **208\***  
Half Chamonix Crossing
-  **209**  
Skyfall
-  **210**  
Fairy Bridge
-  **211\***  
High Fairy Bridge
-  **212**  
Half Coolongalook Crossing
-  **213\***  
Montalivet Crossing
-  **214\***  
Half Montalivet Crossing
-  **215\***  
Dual Coolongalook
-  **216**  
Half Dual Coolongalook
-  **217\***  
Khatanga Net

-  **218**  
Half Khatanga Net
-  **219\* New**  
Beppu
-  **220\* New**  
Seesaws
-  **221\* New**  
Suspended Stairs
-  **222\* New**  
Slack Bridge
-  **223\* New**  
High Tank Trap
-  **224\* New**  
Mamushi
-  **225\* New**  
Elves Bridge
-  **226 New**  
Half Elves Bridge
-  **227\***  
Net Tunnel
-  **228\* New**  
Prisoner's Bridge
-  **229\* New**  
Slalom
-  **230\* New**  
Prisoner's Climbing Holds
-  **231\* New**  
Oural Trapeze
-  **232 New**  
Half Oural Trapeze
-  **233\* New**  
Altaï Boards
-  **234 New**  
Half Altaï Boards
-  **235\* New**  
Plank Swing
-  **236 New**  
Half Plank Swing
-  **237\* New**  
High Log Swing
-  **238\* New**  
Tiki Bridge

## Vertical Activities

-  **151**  
Rope Ladder
-  **152**  
Tree Trunk Ladder
-  **153**  
Scramble Net
-  **154**  
Apple Picker's Ladder
-  **155**  
Log Ladder
-  **156**  
Mallards Ladder
-  **157**  
Parrot Ladder
-  **158\***  
Miller's Stairs
-  **159**  
Climbing Wall
-  **160\***  
Fisherman's Trap
-  **162\***  
Wooden Fisherman's Trap

## On Rock Activities

-  **161**  
Rock Ladder
-  **201\***  
Rock Crossing



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