

SHACKLES

Why buy your shackles from Flints?

Flints register every lifting shackle sold on our database. In the highly unlikely situation that there was a product recall we would be able to immediately contact you and advise you to withdraw the batch. Flints are full members of the Lifting Equipment Engineers Association and we are British Standards ISO:9001 approved.



Crosby are the major US manufacturer of Tested Wire Rope Fittings. From their extensive range of products we have listed a selection of items that we think will be most useful in theatre applications. We are able to quickly supply the entire range of Crosby Fittings. Please call us if there is anything you require. Please note: WLL stands for Working Load Limit and is defined as the maximum mass or force which the product is authorised to support in general service.


CROSBY SHACKLES


A range of forged shackles that have been quenched and tempered to give strength and resilience, to meet the requirements of USA Federal Specifications with the Working Load Limit permanently shown on every shackle. [Look out for the Red Pin, the mark of Crosby quality].



Screw Pin Shackles Bow G209 and D shackle G210 Which meet the requirements of the Federal Specification RR-C-271D Type IVB, Grade A, Class 2. Even if you are lifting relatively light items it is often worth choosing the very popular 1t size which will be endlessly useful for future use.



Bow Shackle G209	nominal size	pin diameter	WLL	code	each
	4-5mm	6.35mm	0.33t	CRO2091	£3.14
	6mm	7.87mm	0.5t	CRO2092	£3.24
	8mm	9.65mm	0.75t	CRO2093	£3.30
	10mm	11.2mm	1t	CRO2094	£3.82
	11-12mm	12.7mm	1.5t	CRO2095	£4.27
	13mm	16mm	2t	CRO2096	£5.45
	16mm	19.1mm	3.25t	CRO2097	£7.11
	19mm	22.4mm	4.75t	CRO2099	£9.44


D Shackle G210	nominal size	pin diameter	WLL	code	each
	6mm	7.87mm	0.5t	CRO2102	£4.02
	8mm	9.65mm	0.75t	CRO2103	£4.02
	10mm	11.2mm	1t	CRO2104	£3.80
	11-12mm	12.7mm	1.5t	CRO2105	£4.28
	13mm	16mm	2t	CRO2106	£5.50
	16mm	19.1mm	3.25t	CRO2107	£7.13
	19mm	22.4mm	4.75t	CRO2109	£9.45


This page was updated 03/01/12



Bolt Type Shackle Bow G2130 and D shackle G2150 Which meet the requirements of the U.S. Federal Specification RR-C-271D Type IVB, Grade A, Class 3.



Bolt Shackle G2130	nominal size	pin diameter	WLL	code	each
	8mm	9.65mm	0.75t	CRO21303	£6.84
	10mm	11.2mm	1t	CRO21304	£7.06
	11-12mm	12.7mm	1.5t	CRO21305	£7.30
	13mm	16mm	2t	CRO21306	£7.38
	16mm	19.1mm	3.25t	CRO21307	£10.70
	19mm	22.4mm	4.75t	CRO21309	£14.80


D Shackle G2150	nominal size	pin diameter	WLL	code	each
	8mm	9.65mm	0.75t	CRO21503	£6.86
	10mm	11.2mm	1t	CRO21504	£7.08
	11-12mm	12.7mm	1.5t	CRO21505	£7.31
	13mm	16mm	2t	CRO21506	£7.39
	16mm	19.1mm	3.25t	CRO21507	£10.70
	19mm	22.4mm	4.75t	CRO21509	£14.90

BLACK CROSBY SHACKLES

new

Screw Pin Shackle Bow in Black Finish S-209T These shackles have been produced by Crosby to their exacting standards to provide the theatre industry with a fully certified shackle which is unobtrusive in the grid.



Black Bolt Shackle	nominal size	pin diameter	WLL	code	each
	10mm	11.2mm	1t	CRO2094B	£4.01
	11-12mm	12.7mm	1.5t	CRO2095B	£4.83
	13mm	16mm	2t	CRO2096B	£6.85
	16mm	19.1mm	3.25t	CRO2097B	£9.32
	19mm	22.4mm	4.75t	CRO2099B	£12.70

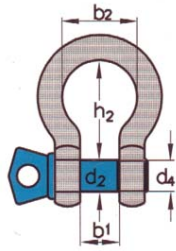
Authorised
Crosby[®]
distributor

- ✓ For lifting purposes, choose items showing the lifting hook symbol.
- ✓ Choose Bow shackles when the lift is from more than one rope.
- ✓ Use Sling Saver Shackles [see page 2.14] to achieve the SWL of round slings.
- ✓ If the shackle is not fitted with a securing split pin then the pin should be seized with monel seizing wire [see page 2.27].
- ✓ Shackles must be free to move in the direction of the load.

U.S. FEDERAL SPECIFICATION BLUE PIN SHACKLES

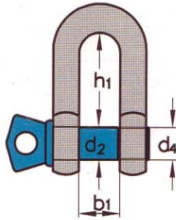
new

Flints are now also stocking this range of shackles which meets U.S. Federal Specification made by a very reputable German company run by the same family since 1934. The company conforms to ISO9001 and operates from a modern 6,500sq metre factory.



Blue Pin Bow Shackles
High tensile shackle for general use. Galvanised, bolt varnished, marked with WLL and nominal size. Good value.

Bow Shackle Blue Pin				WLL	code	each
pin diam. d2	width b1	height h2.	diameter b2			
8mm	12mm	28mm	20mm	0.5t	WIR2092BP	£2.10
10mm	13mm	31mm	21mm	0.75t	WIR2093BP	£2.16
11mm	16mm	36mm	26mm	1t	WIR2094BP	£2.63
13mm	18mm	42mm	29mm	1.5t	WIR2095BP	£2.98
16mm	21mm	48mm	33mm	2t	WIR2096BP	£3.70
19mm	27mm	60mm	43mm	3.25t	WIR2097BP	£6.07

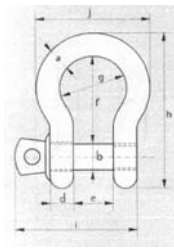
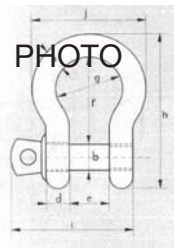


Blue Pin Dee Shackles
High tensile shackle for general use. Galvanised, bolt varnished, marked with WLL and nominal size. Good Value.

Dee Shackle Blue Pin			WLL	code	each
pin diam. d2	width b1	height h1.			
10mm	13mm	26mm	0.75t	WIR2102BP	£2.59
11mm	16mm	31mm	1t	WIR2104BP	£2.82
13mm	18mm	36mm	1.5t	WIR2105BP	£3.01

GREEN PIN SHACKLES

NEW



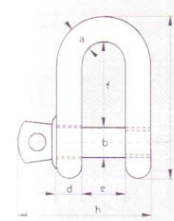
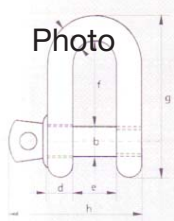
Green Pin Bow Shackles

The bows and pins are made from high tensile Grade 6 steel which is quenched and tempered. The finish is hot dipped

galvanised with a painted green bolt. Marked with WLL, batch mark and CE mark. In accordance with EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVA Class 2, Grade A. Safety Factor: MBL equals 6 x WLL. Temperature Range : -20°C up to +200°C. Certification: Supplied with a Certificate of Thorough Examination and registered on Flints lifting database.

Bow Shackle Green Pin				WLL	code	each
pin diam. b	width e	height f	diameter g			
8mm	12mm	29mm	20mm	0.5t	WIR2092GP	£2.34
10mm	13.5mm	32mm	22mm	0.75t	WIR2093GP	£2.50
11mm	17mm	36.5mm	26mm	1t	WIR2094GP	£2.84
13mm	19mm	43mm	29mm	1.5t	WIR2095GP	£3.54
16mm	22mm	51mm	32mm	2t	WIR2096GP	£4.52
19mm	27mm	64mm	43mm	3.25t	WIR2097GP	£5.96

NEW



Green Pin Dee Shackles

The body and pins are made from high tensile Grade 6 steel which is quenched and tempered. The finish is

hot dipped galvanised with a green painted bolt. Marked with WLL, batch mark and CE mark. In accordance with EN 13889 and meets performance requirements of US Fed. Spec. RR-C-271 Type IVB Class 2, Grade A. Safety Factor: MBL equals 6 x WLL. Temperature Range: -20°C up to +200°C. Certification: Supplied with a Certificate of Thorough Examination and registered on Flints lifting database.

Dee Shackle Green Pin			WLL	code	each
pin diam b	width e	height f			
10mm	13.5mm	27mm	0.75t	WIR2102GP	£2.60
11mm	17mm	31mm	1t	WIR2104GP	£2.96
13mm	19mm	37mm	1.5t	WIR2105GP	£3.68

2.22a

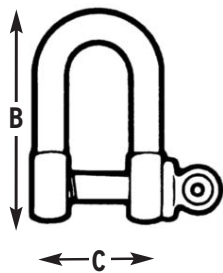
COMMERCIAL GALVANISED SHACKLES



Galvanised Commercial Pattern Dee Shackles

An economical general purpose dee shackle. Not to be used for lifting purposes.

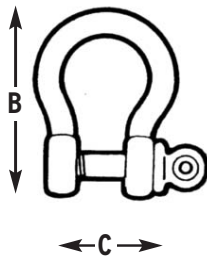
Galvanised Dee Shackle code each



pin diameter	BxC	code	each
5mm	35 x 20mm	WIR201	£0.42
6mm	40 x 25mm	WIR202	£0.54
8mm	50 x 35mm	WIR203	£0.60
10mm	65 x 40mm	WIR204	£0.72
12mm	80 x 50mm	WIR205	£1.04
16mm	95 x 60mm	WIR206	£1.98
20mm	115 x 70mm	WIR207	£3.39

Galvanised Commercial Pattern Bow Shackle An economical general purpose bow shackle. Bow shackles are used when more than one rope needs to be attached. Not to be used for lifting purposes.

Galvanised Bow Shackle code each



pin diameter	BxC	code	each
5mm	35 x 20mm	WIR210	£0.53
6mm	40 x 25mm	WIR211	£0.64
8mm	50 x 35mm	WIR212	£0.70
10mm	65 x 40mm	WIR213	£0.85
12mm	80 x 50mm	WIR214	£1.44
16mm	95 x 60mm	WIR215	£2.15
20mm	115 x 70mm	WIR216	£3.48

STAINLESS STEEL SHACKLES [316 grade]



Small Stainless Shackles Useful in conjunction with our small stainless wire ropes.

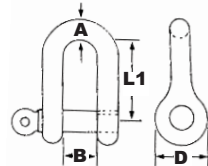
Small Stainless Shackles code each

Pin diameter	width	length	code	each
5mm	10mm	29mm	BAR310	£1.52



Twisted Stainless Shackles

Twisted Stainless Shackles	code	each
Pin diameter	breaking load	
5mm	1200kg	WIRED624105 £1.88
6mm	1750kg	WIRED624106 £2.11



Standard Stainless Dee Shackles Marine grade shackles suited for use with stainless wire rope. The smart appearance of these shackles also lends them to handrailing and display applications.

Stainless Dee Shackles A B & D L1 b/load code each

mm	mm	mm	mm	kg	code	each
4	8	16	750	750	WIR200SS	£0.80
5	10	20	1200	1200	WIR201SS	£0.88
6	12	24	1750	1750	WIR202SS	£1.16
8	16	32	3000	3000	WIR203SS	£2.32
10	20	40	5800	5800	WIR204SS	£3.96

We can supply other types of shackles, please ask our rigging manager.

CARBINE HOOKS AND QUICK LINKS

CARBINE HOOKS AND SNAP HOOKS



Carbine [Snap] Hooks Simple connecting hook with a spring loaded gate that enables the quick connection of light loads. These commercial snap hooks will fail if subjected to heavy loads. They can find a use as a sacrificial weak point in certain rope assemblies. Not to be used for lifting purposes.

Carbine Hook [bright zinc plated]	code	each	per 100
length:			
50mm	WIR220	£0.88	£57.00
60mm	WIR221	£0.98	£65.00
60mm [Eyelet Snap Hook]	WIR261	£1.30	£83.00
70mm	WIR222	£1.09	£70.00
80mm	WIR223	£1.29	£84.00
100mm	WIR224	£2.01	£100.00
120mm	WIR225	£2.52	£126.00

Swivel Spring Hook A useful clip for attaching small accessories. Black powder coated. Zinc coated are also available, ask for a quote.



Swivel Spring Hook	code	each
length:		
50mm	WIR400	£1.80
75mm	WIR401	£2.20

Spring Hook The end can be squeezed closed to form a permanent connection onto a chain link. Black powder coated. Zinc coated available, ask for a quote. See page 2.31 for accessory bonds.



Spring Hook	code	each
length:		
60mm	WIR482	£1.50
75mm	WIR483	£1.99

Swivel Harness Snap Hook Your dog will recognise these.



Swivel Snap Hook	SWL	code	each
one labrador		WIR3364349	£3.13



S-biner A black titanium coated stainless steel double ended karabiner for securing small tools, keys, loop pins etc to a belt or screw eye. Available in two sizes.

S-biner	length	breaking load	code	price
Size 3	66mm	11kg	SAFSB30301	£3.04
Size 4	89mm	33kg	SAFSB40301	£3.60

Screwgate Carbine Hooks More suitable for heavy loads. The screw gate prevents accidental opening.



Length	Aperture width	MBL	code	price
60mm	6mm	240kg	WIR226	£1.81
100mm	12mm	700kg	WIR227	£5.66



Wichard Snap Hooks A smooth patented design in a special marine grade stainless steel that will deform before breaking. Designed by Wichard. These are the genuine article stamped with the logo.

Length	Hole Ø	Body Ø	BL	code	price
50mm	6mm	8mm	300kg	WIR2480	£7.62
75mm	10mm	12mm	700kg	WIR2481	£12.34
100mm	13mm	16mm	1500kg	WIR2482	£23.61

QUICK LINKS [MAILLON RAPIDES]

PPE



Maillon Rapides [EN 12275 Type 0 and EN362]

If you are wondering why Quick

Links are often called by their French name, "Maillon Rapides", it's because they are made by a very safety conscious family firm in France. We have expanded our range of these reliable connectors which are suitable for lifting purposes and PPE. Each connector is supplied with user instructions [in English!]. They are all galvanised mild steel except the PPEG0107 which is stainless steel. **Breaking load is 5 x WLL. (Major Axis)**



Long opening Pattern



Delta Pattern

Long Opening Pattern

Type	bar Ø	gate opening	WLL	code	each
Long Opening Pattern [stainless steel version shown]					
PPEG0107	7mm	16mm	800kg	WIR246SS	£7.58
PPEGOZ07	7mm	16mm	500kg	WIR246	£2.58
PPEGOZ10	10mm	20.5mm	1000kg	WIR245	£3.93

Delta Pattern

Type	bar Ø	gate opening	wwl	code	each
Delta Pattern [Triangular shape for three way loading]					
PPEDZ10	10mm	12mm	900kg	WIR247	£4.06
PPEGZ12	12mm	15mm	1100kg	WIR249	£6.23

COMMERCIAL QUICK LINKS



Commercial Grade Quick Links These are untested quick links which are not suitable for lifting purposes but make a useful lightweight and secure fastening for small chains and accessories.

Commercial Quick Links	bar Ø	code	each	per 100
	3.5mm	WIR230	£0.55	£36.00
	4mm	WIR231	£0.61	£40.00
	5mm	WIR232	£0.77	£50.00
	6mm	WIR233	£0.88	£58.00

SKY HOOKS

new



Sky Hooks Well, I can't really see what use these would be in the theatre but the next time the young apprentice gets asked to order some sky hooks from Flints then their line manager will get a shock when the invoice arrives.

Sky Hook with sling	code	each
	PETP06	£11.67

Take care

Please ensure that lines connecting Karabiners do not get twisted, especially around the latch, as it is possible, in very rare circumstances, for a twisted line to disengage the safety button and twist the gate to the open position. It is good practice to ensure all lines to any fitting [shackle, rigging screw etc.] pull in the required direction before applying loads.

KARABINERS

For information on Newtons and kN please see the information box on page 2.14. Any unit that has arrested a falling weight should be replaced immediately.

GENERAL PURPOSE KARABINERS TO EN362

PPE



Offset D Screwgate Karabiner 45kN Type C810. These steel karabiners are CE marked to EN362:2004 45kN. They are suitable for fall arrest and work positioning purposes. Gate opening 18mm. Wt 226g.

45kN Offset D [C810]	code	each
	SAFC810	£13.40

PPE



45kN Captive Eye Karabiners [C960] CE Marked to EN362:2004 45kN. Fitted with screwgate. Suitable for fall arrest and work positioning. Steel. Gate opening 18mm. Wt 250g.

45kN Captive Eye [C960]	code	each
	SAFC962	£15.18

PPE



Am'D Screw Lock Karabiner A multi purpose karabiner for connecting devices to a harness or to use at the end of a lanyard. Asymmetric shape for exceptional weight to strength ratio. When loaded the karabiner is oriented in the optimal working axis. Strength 28kN [major axis] 8kN [gate open] 7kN [short axis] CE 75g.

Petzl Screw Lock	code	each
	PETM34SL	£13.33

PPE



Am'D Ball Lock Karabiner The D ball system offers a quicker one handed operation. Now fitted with an alloy barrel. These units are individually tested to 28kN [major axis gate closed] and are CE marked EN 362 and EN 12275 type B/K. Weight 75g.

Am'D Ball Lock	code	each
	PETM34BL	£16.67

new

PPE



OK Screw Lock Black Ideal for use with pulleys and hauling systems. The symmetrical oval shape: facilitates pulley use, ideal for clipping anchors [easy to flip over]. Compact shape: easy to use with one hand. Keylock System [snag-free body / gate interface]. Strength: 24 kN long axis, 7 kN open gate, 10 kN short axis. CE EN362 class B EN 12275 type B. Weight 75g.

OK Screw Lock Black	code	each
	PETM33SLN	£10.83

new

PPE



Revolver A277 Locksafe Karabiner Approved to EN362:2004 . EN12275 and ANSI Z359.1 Suitable for fall protection, rescue, rope access and arborist purposes. Strength 24kN [major axis] 8kN [minor axis or gate open]. Weight just 70g. Gate opening 15mm. Fitted with a very neat revolving sheave for emergency use.

Revolver A277 Locksafe code	each
WIRA277	£22.14

PPE



The ideal harness connector

Omni Triact M37 TL Type C812. These are CE marked to EN362, EN12275 Type B Strength 15kN in all directions. Weight 92g. This is the recommended connector for use with any harness having two attachment points including the Newton Jak Fast fall arrest harness, see page 3.38. Snag free keylock system. They are suitable for fall arrest and work positioning purposes.

20kN Omni Triact [M37]	code	each
	PETM37TL	£23.33

PPE

new



HMS DEE Triplelock Karabiner
A small matt black triple locking Karabiner. Size 111x72mm, gate opening 23mm, wt 92g Max breaking strength 23kN, max. breaking strength gate open 9kN, max. breaking strength minor axis 9kN. Complies to EN 362:2004, EN12275.

Triplelock Carabiner Black	code	each
	SAFE8273B	£15.17

PPE

new



Twistlock



Screwgate

Foin Steel Dee Karabiners
Economical steel connectors which comply to EN362 for use in work positioning or fall arrest. Available with Twistlock or screwgate. Breaking load major axis when closed 25kN. Gate opening 16mm [18mm for screwgate] Wts 190g [180g screwgate]. Overall height 105mm, overall width 57mm.

Foin Dee Karabiners	code	each
Twistlock version	SAF4247	£6.72
Screwgate version	SAF4249	£3.17

Any unit that has arrested a falling weight should be replaced immediately.

SIDEWINDER SWIVEL

new

PPE



Sidewinder Kwicklock Swivel
This karabiner is very useful when the avoidance of twisting is an issue. It is often used as a lanyard end connector and also as a connector linked to a guided fall arrester. Complies to EN362:2004 and ANSI Z359.1.

Sidewinder Kwick Lock	code	each
	WIRA9871	£22.00

BS EN 362

This is the standard relating to Personal Protective Equipment against falls from a height: connectors

MARINE SAFETY HOOKS



Safety Hook These are the hooks used on the marine lanyards [EN1095] listed on page 3.39. They have a quick, secure single handed operation. Use with 1" nylon or polyester webbing. NOT for fall arrest.

Safety Hook	code	each
	SAF604	£11.00

See pages 3.37-3.41 for safety lines and harnesses.

SCAFFOLD KARABINERS TO EN362

PPE



Alloy Scaffold Hook [captive eye] Tested to 25kN CE EN362. 60mm wide dual action opening for ease of operation. Ergonomically shaped unlocking handle. Now also available in black. Weight 455g. Suitable for lifting people provided it is used according to instructions. Any unit which has arrested falling weights should be replaced immediately.

Alloy Scaffold Hook	code	each
Standard version	WIR228	£36.25
Black version	SAFE3787B	£35.02

new

PPE

new



Now in aluminium too!

Scaffold Carbines These large tested carbines will clip directly over 50mm diameter tube making securing lanyards, rigging rope ladders and blocks a quick, safe operation. Also useful for securing paint kettles and buckets to scaffold towers. A pin is provided to form a captive eye if it is needed. Tested to 35kN CE marked EN362:2004 and ANSI Z359.1 Suitable for fall arrest provided it is used according to instructions. Any unit which has arrested falling weights should be replaced immediately.

Scaffold Carbines	wt	length	strength	code	each
steel	744g	230mm	35kN	WIR229	£29.90
aluminium	300g	227mm	23kN	WIRA734	£37.90

Flints can also supply lightweight alloy climbing karabiners to order

QUICK RELEASE MARINE SNAP SHACKLES

Wichard use high resistance 630 grade stainless steel [magnetic] on these snap shackles which will deform before breaking and will never break suddenly. Designed for marine use. N.B. Different safety standards apply.



Wichard Quick Release Snap Shackles "HR" This patented design allows the shackle to open immediately by means of a control line. Overall length 90mm. Diameter inside release 16mm. Inside swivel bail 23mm. Weight 100g

SAFETY	Breaking Load	Safety factor	Working load
	2000kg	1.43 to 1	1280kg

Wichard Quick Release Snap Shackle	code	each
	WIRWD2774	£54.56



Wichard Fixed Eye Snap Shackles "HR" The plunger is set captive into the hook and can not become dislodged. We can supply other sizes and types of snap shackles. Overall length 50mm. Diameter inside release 16mm. Inside lower eye 10mm. Weight 42g.

SAFETY	Breaking Load	Safety factor	Working load
	2000kg	1.66 to 1	960kg

Wichard Fixed Snap Shackle	code	each
	WIRWD2471	£25.20

Wichard are renowned for their quality and innovation, please beware of imitations.