

CHAIN PRODUCTS

Chain Grades

Chain comes in various grades. Before high-grade steels were available it was found that a chain made from 1" diameter mild steel would break at 30 tons. A mild steel chain became known as Grade 30 chain. A chain made to the same dimensions from Grade 60 steel would break at 60 tons – twice as strong. Nowadays most lifting chain is Grade 80, although even higher grades are available. One problem with these high-grade chains is that they would be susceptible to hydrogen embrittlement if they were galvanised. This is why most anchor chains which need to be galvanised are still made from grade 30 or grade 40 steel [although grade 70 galvanised chain is obtainable – please ask our Rigging Manager for details]. Due to the reliability of modern manufacturing the safety factor on lifting chains has been reduced to 4:1. Lifting chains will have the grade embossed on every 20th link of every metre.

GRADE 80 LIFTING CHAIN



Grade 80 Alloy Chain

[according to DIN EN 818-2] This chain is made from heat-treated alloy steel and is recommended for overhead lifting purposes. Flints stocks nominal 8 mm Grade 80 chain but we can supply other sizes to orders from nominal 6 mm to nominal 26 mm. The chain is hard to cut so we supply it in selected lengths with a range of accessories to fit. We can also supply ready-made chain systems with a shortening clutch so that onsite adjustments to the chain length can be quickly and simply made. The chain may be used at temperatures from -40°C to +200°C without effect on the strength. The chain is a natural black colour and finished with a glossy varnish. It must not be zinc-plated or galvanised. Supplied with certification.

SAFETY

Min Breaking Load	Safety Factor	WLL
8,000 kg	4:1	2,000 kg

Grade 80 Alloy Chain Nominal Thickness 8 mm

SPECIFICATION: Dimension 'd': 8 mm. Dimension 't': 24 mm. Dimension 'b': 10.8 mm. Compliance: DIN EN 818-2. Colour: Natural black with glossy varnish. Weight per metre: 1.5 kg.

Grade 80 Alloy Chain	length	WLL	code	price
For shortener	136 mm [5 links]	2,000 kg	WIRCH885L	£5.65
	1 m	2,000 kg	WIRCH881	£6.78
	2 m	2,000 kg	WIRCH882	£13.55
	3 m	2,000 kg	WIRCH883	£23.91
	5 m	2,000 kg	WIRCH885	£33.87
	10 m	2,000 kg	WIRCH8810	£67.90
Bundle	50 m	2,000 kg	WIRCH8850	£311.18
Drum	200 m	2,000 kg	WIRCH88200	£927.50

Why choose chain?

Chain is very robust and will withstand harsh treatment. Unlike wire or rope it will self-store in a very small area and it doesn't require careful coiling or winding onto a reel. Assemblies can be easily made up using specially designed fittings which do not need expensive machines or lengthy training to fit. Modern chains are very strong and reliable. Choose chain whenever you need a lifting assembly to perform reliably in tough conditions.

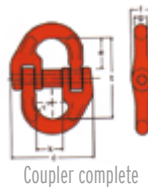
GRADE 80 LIFTING CHAIN ACCESSORIES



Shortening Clutch

This Grade 80 clutch is fitted directly to the chain and allows chains to be quickly adjusted in length. It is especially easy to handle and user-friendly. You can purchase the shortener part only, or order made-up chains with a shortener and Masterlinks at each end. We stock short [5 links] pieces of Grade 80 nominal 8 mm chain especially for attaching shorteners. The shortener is supplied with hardened dowel and securing pins.

Shortening Clutch	WLL	code	price
Shortener only	2,000 kg	WIRCH88EK	£37.45
2 m assembly	2,000 kg	WIRCH88EK2	£72.99
3 m assembly	2,000 kg	WIRCH88EK3	£78.48
5 m assembly	2,000 kg	WIRCH88EK5	£89.13



Coupler complete



Bolt and bush

Coupling Link

This Grade 80 link is used to join chains or to join chains to Masterlinks or Eye Hooks. Supplied complete with bolt and bush [although these can also be purchased separately].

Coupling Link	WLL	code	price
Coupler complete	2,000 kg	WIRCH88VG	£7.75
Spare bolt and bush	2,000 kg	WIRCH88VGB	£4.73

MASTERLINKS



Masterlinks Grade 80 Size 8

Available to take your own couplers or shackles. Conforms to DIN 5688-8. Supplied with certification.

SPECIFICATION: Dimension 'd': 16 mm. Dimension 'w': 60 mm. Dimension 't': 110 mm. Colour: red-coated.

Masterlink	WLL	code	price
	2,000 kg	WIRCH88A16	£5.28



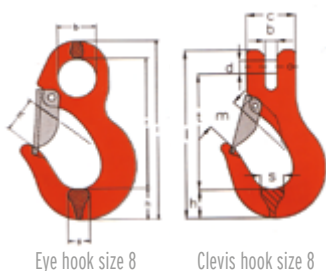
Crosby Masterlinks A344

Made from alloy steel, quenched and tempered, then proof-tested at 2.5 times Working Load Limit [4:1]. Each link has an identification code for traceability. Masterlinks are used to create linked assemblies, such as multi-legged slings. Supplied with certification. Use 4:1 factor for chain.

SAFETY

Masterlinks A344	WLL 5:1	WLL 4:1	code	price
12 x 120 x 60 mm	1.6 t	1.6 t	CRO34412	£8.26
13 x 120 x 60 mm	2.5 t	2.12 t	CRO34413	£9.05
17 x 160 x 90 mm	4 t	3.15 t	CRO34417	£11.90
19 x 160 x 90 mm	6.5 t	5.3 t	CRO34419	£18.00

GRADE 80 HOOKS



Eye hook size 8

Clevis hook size 8

Eye Hooks and Clevis Hooks Grade 80 Size 8
Available either as an eye hook or with a clevis fitting to go straight onto your Grade 80 nominal 8 mm chain.

Eye Hooks and Clevis Hooks	WLL	code	price
Eye hook size 8	2,000 kg	WIRCH88SOB	£10.68
Clevis hook size 8	2,000 kg	WIRCH88SGB	£12.03



Crosby Eye Chain Hooks with Latch M-315A Made from forged alloy steel, quenched and tempered, then proof tested at 2.5 times Working Load Limit. Also meets proposed ASTM and Euronorm standards for Grade 80 chain fittings. Features large throat opening and integrated heavy-duty latch.

Eye Chain Hooks With Latch M-315A					code	price
chain size	LxW	throat	eye ø	WLL		
6 mm	114 x 66 mm	20.6 mm	20 mm	1.12 t	CROS315A6	£14.80
7-8 mm	156 x 89 mm	27.4 mm	28 mm	2 t	CROS315A8	£20.60
10 mm	200 x 111 mm	36.1 mm	36 mm	3.15 t	CROS315A10	£33.90

See also the stainless steel chain grab hooks [↗](#).



Stainless Steel Eye Chain Hooks Allows a temporary hauling line to be attached anywhere along a length of short link nominal 8 mm chain [which will only accept shackles on the final links]. Widely used on anchor chains to prevent snubbing by attaching a length of stretchy nylon rope which takes the strain while a loop of slack chain hangs below. Now available with a plunger. See also shortening clutches [\[page 173\]](#).

Widely used on anchor chains to prevent snubbing by attaching a length of stretchy nylon rope which takes the strain while a loop of slack chain hangs below. Now available with a plunger. See also shortening clutches [\[page 173\]](#).

Chain Hooks	chain size	slot width	Min BL	code	price
Standard	8 mm	10 mm	2,800 kg	WIR871	£8.41
Plunger	8 mm	10 mm	1,600 kg	WIR2984	£21.11

CROSBY CONNECTING LINKS



Crosby "Missing Link®" Replacement Links 6-335 Made from forged steel, quenched and tempered. Integral rivets join the two halves. After the connection is made the rivets must be peened. These joining links are not suitable for Grade 80 or 100 chain or for overhead lifting purposes. Meets or exceeds the performance requirements of US Fed. Spec. RRC-271D, Type 11, except for those provisions required of the contractor. Often used to extend or join anchor chains.

These joining links are not suitable for Grade 80 or 100 chain or for overhead lifting purposes. Meets or exceeds the performance requirements of US Fed. Spec. RRC-271D, Type 11, except for those provisions required of the contractor. Often used to extend or join anchor chains.

Crosby "Missing Link®" Replacement Links					code	price	10+
chain size	L x W	WLL					
8 mm	42.9 x 29.5 mm	0.89 t		CROG3358	£8.83	£7.95	
10 mm	52.5 x 35.1 mm	1.25 t		CROG33510	£9.10	£8.19	

Visit arthurbeale.co.uk for more marine products.

GRADE 30 & 40 CHAIN



Short Link Chain DIN 766 Grade 30 & 40 These chains are welded, tested and certified and are suitable for general purposes – typically moorings. The short links mean that it is not possible to shorten the chain using shackles. Our 60 m length is fitted with an oversized end link. SPECIFICATION: Chain size: 8 mm. Inside link size [l x w]: 24 mm x 10 mm. Weight per metre: Grade 30 1.35 kg, Grade 40 1.4 kg.

Short Link Chain	BL	WLL	length	code	price
Grade 30 self-colour	32 kN	800 kg	per m	WIR872	£7.50
Grade 40 galvanised	40.2 kN	1000 kg	per m	WIRAQUA408	£6.50
Grade 40 galvanised	40.2 kN	1000 kg	60 m	WIRAQUA408L	£367.50

Other sizes and types are available to order.

LONG LINK CHAIN



Long Link Welded Chain

Please note that the link size specifies the diameter of the wire and then the inside length of the link. MRL = maximum recommended load. Available black japanned or bright zinc-plated. Use short link Grade 80 chain for lifting purposes.

Long Link Welded Chain		code	per m	code	per m	price
link size	MRL	black		bright zinc-plated		per m
2.5 x 19 mm	30 kg	WIR823	£1.35	WIR803	£1.35	£1.15 [30 m+]
3 x 21 mm	50 kg	WIR825	£1.56	WIR805	£1.56	£1.35 [30 m+]
4 x 19 mm	100 kg	WIR827	£2.25	WIR807	£2.25	£2.00 [30 m+]
4 x 26 mm	85 kg	WIR829	£2.89	WIR809	£2.89	£2.10 [30 m+]
5 x 28 mm	130 kg	WIR831	£3.60	WIR811	£3.60	£2.70 [25 m+]
6 x 33 mm	140 kg	WIR833	£4.93	WIR813	£4.93	£3.95 [15 m+]
6.5 x 36 mm	150 kg	WIR835	£5.53	WIR815	£5.53	£4.60 [15 m+]

DECORATIVE CHAIN



Polythene Chain A lightweight display chain.

Polythene Chain	code	per m	25 m+
White [8 x 45 mm]	WIR34476WC	£2.20	£1.70
Black [8 x 45 mm]	WIR34476JC	£2.20	£1.70



Single Jack Chain An open-link steel chain, formed in a figure eight. Bright zinc-plated. Used principally for weighting the bottom pocket of theatre drapes and cloths.

Single Jack Chain	length	approx wt	code	price
8 gauge [4 mm]	10 m	2.8 kg [per 10 m]	WIR861	£16.27
12 gauge [2.5 mm]	10 m	1.1 kg [per 10 m]	WIR862	£8.25

Decorative Brass Chains

See page 230

