

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.

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.

MASTERLINKS

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.



code	WLL 5:1	WLL 4:1	int. width	int. height	thickness	price
CRO34413	2.5t	2.12t	60mm	120mm	13mm	£13.50
CRO34417	4t	3.15t	90mm	160mm	17mm	£17.70
CRO34419	6.5t	5.3t	90mm	160mm	19mm	£27.00

GRADE 80 HOOKS

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. See also the stainless steel chain grab hooks.



code	WLL	length	width	chain size	price
CROS315A6	1.12t	114mm	66mm	6mm	£22.50
CROS315A10	3.15t	200mm	111mm	10mm	£51.70

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 [see previous page].



code	description	slot width	chain size	min BL	price
WIR871	Standard	10mm	8mm	2800kg	£14.00

CROSBY CONNECTING LINKS

Crosby "Missing Link"® Replacement Links G-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.



code	chain size	length	width	price	10+
CROG33510	10mm	52.5mm	35.1mm	£14.40	£12.96

CHAINS

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. Other sizes and types are available to order.



Per metre	Type	Grade	WLL	BL	price
WIR872	Self-colour	30	800kg	32KN	£9.90

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.



30m drums	Type	30m drums	Type	int. link length	wire gauge	MRL	per m	drum price
WIR823	Black	WIR803	BZP	19mm	2.5mm	30kg	£1.65	£1.49
WIR825	Black	WIR805	BZP	21mm	3mm	50kg	£2.17	£1.96
WIR827	Black	WIR807	BZP	19mm	4mm	100kg	£3.20	£2.88
WIR829	Black	WIR809	BZP	26mm	4mm	85kg	£3.32	£2.99
25m drums	Type	25m drums	Type	int. link length	wire gauge	MRL	per m	drum price
WIR831	Black	WIR811	BZP	28mm	5mm	130kg	£4.22	£3.80
15m drums	Type	15m drums	Type	int. link length	wire gauge	MRL	per m	drum price
WIR833	Black	WIR813	BZP	33mm	6mm	140kg	£5.77	£5.20
WIR835	Black	WIR815	BZP	36mm	6.5mm	150kg	£5.98	£5.39

Polythene Chain

A lightweight display chain.



code	Colour	int. link length	wire gauge	per m	25 m+
WIR34476WC	White	45mm	8mm	£2.50	£1.95
WIR34476JC	Black	45mm	8mm	£2.95	£2.38

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.



code	wire gauge	Type	length	approx weight	price
WIR861	4mm	8 Gauge	10m	2.8kg per 10 m	£19.95
WIR862	2.5mm	12 Gauge	10m	1.1kg per 10 m	£11.85