

MULTI LEG SLINGS



FOUR LEG SLING MADE WITH 2 TONS DUPLEX FLAT WEBBING SLING WITH LOOPS AT BOTH ENDS



FOUR LEG SLING MADE WITH 3 TONS ROUND SLING

Features:

- Choice of two, three or four-leg versions.
- Webbing or Round slings depending on applications.
- Length of legs to order.
- Special Webbing/Chain combinations to order.
- Anti-abrasion protection available.
- Anti-cutting protection available.
- High strength to weight ratio.
- Colour code for positive identification, even when soiled.
- Only hooks and link are metal components.
- Conform fully to B.S. 3481 Part 2 B.S. 6668 Part 2 and the European Standard Draft pr. EN 1492-1 and 1492-2.

Advantages


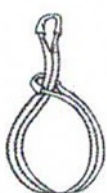


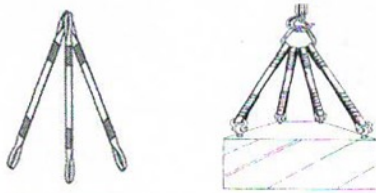
- Much lighter than metallic slings
- Lasts longer
- No corrosion - Acid resistance
- Better grip hence safe
- Easy to handle
- No risk of damage and scratching on the surface of finished goods
- Soft and flexible hence no injury to hands and clothing
- Wider bearing surface on load
- Less pressure at point of contact load

Safe Working Load Angles

The Safe Working Load values quoted in the tables have been rated using the uniform load method for a maximum angle for each leg of 45 degrees from the vertical, as shown in the diagram. Slings may be rated at greater angles if required. Please refer Chain Sling for more information on rating of slings and sling angles.

The textile elements of these Slings have a minimum safety factor of 7:1 and the metal elements a safety factor of 4:1. All slings are serialised and issued with a test certificate.

WEB SLING CAPACITIES IN ACCORDANCE WITH EN 1492-1/2

							
VERTICAL (SINGLE LEG)		CHOKER	BASKET	2 - LEG SLINGS		3 / 4 LEG SLINGS	
t		t	t	$0^\circ < \beta \leq 45^\circ$ t	$45^\circ < \beta \leq 60^\circ$ t	$0^\circ < \beta \leq 45^\circ$ t	$45^\circ < \beta \leq 60^\circ$ t
Violet	1.0	0.8	2.0	1.4	1.0	2.1	1.5
Green	2.0	1.6	4.0	2.8	2.0	4.2	3.0
Yellow	3.0	2.4	6.0	4.2	3.0	6.3	4.5
Grey	4.0	3.2	8.0	5.6	4.0	8.4	6.0
Red	5.0	4.0	10.0	7.0	5.0	10.5	7.5
Brown	6.0	4.8	12.0	8.4	6.0	12.6	9.0
Blue	8.0	6.4	16.0	11.2	8.0	16.8	12.0
Orange	10.0	8.0	20.0	14.0	10.0	21.8	15.0

CHOKER CAPACITY

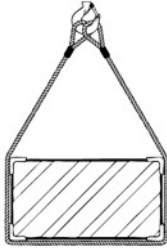
A CHOKER HITCH HAS 80% OF THE CAPACITY OF A SINGLE LEG SLING ONLY IF THE ANGLE OF CHOKE IS 120 DEGREES OR GREATER. A CHOKE ANGLE LESS THAN 120 DEGREES WILL RESULT IN A CAPACITY AS LOW AS 40% OF THE SINGLE LEG.



BASKET HITCH CAPACITY

HORIZONTAL ANGLE	CAPACITY % OF SINGLE LEG
90	200%
60	170%
45	140%
30	100%

A TRUE BASKET HITCH HAS TWICE THE CAPACITY OF A SINGLE LEG ONLY IF THE LEGS ARE VERTICAL.



MULTIPLE LEG SLINGS

TRIPLE LEG SLINGS HAVE 50% MORE CAPACITY THAN DOUBLE LEG SLINGS (AT SAME SLING ANGLE) ONLY IF THE CENTER OF GRAVITY IS IN CENTER OF CONNECTION POINTS AND LEGS ADJUSTED PROPERLY (THEY MUST HAVE AN EQUAL SHARE OF THE LOAD).

QUAD (4-LEG) SLINGS OFFER IMPROVED STABILITY BUT PROVIDE INCREASED CAPACITY ONLY IF ALL LEGS SHARE AN EQUAL SHARE OF THE LOAD.

FOLDING, BUNCHING OR PINCHING OF SYNTHETIC SLINGS, WHICH OCCURS WHEN USED WITH SHACKLES, HOOKS OR OTHER APPLICATION WILL REDUCE THE RATED LOAD.



ALWAYS SELECT AND USE WEB SLINGS AND ROUND SLINGS BY THE RATED LOAD SHOWN ON THE SLING IDENTIFICATION, NEVER BY WIDTH, COLOR OR SLING NUMBER.



FIG 1: WEB SLING CONNECTOR USED FOR COUPLING WEB SLING WITH EYE HOOK



FIG 2: FOUR LEG SLING IN APPLICATION

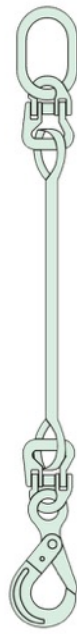
**SINGLE
LEG
SLING**

**DOUBLE
LEG
SLING**

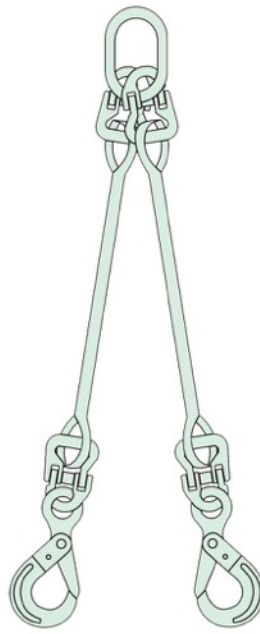
**THREE
LEG
SLING**

**FOUR
LEG
SLING**

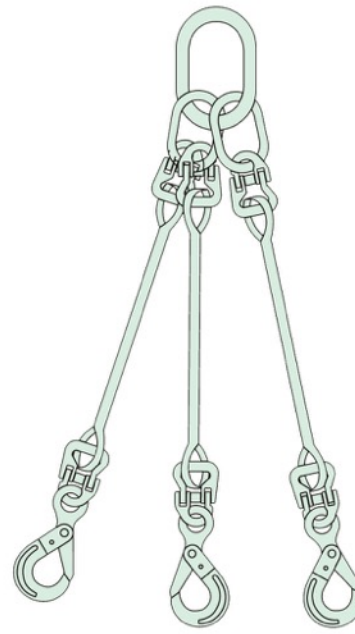
Multi leg slings with master link on top and self locking hook at bottom connected with web connectors manufactured from flat webbing slings



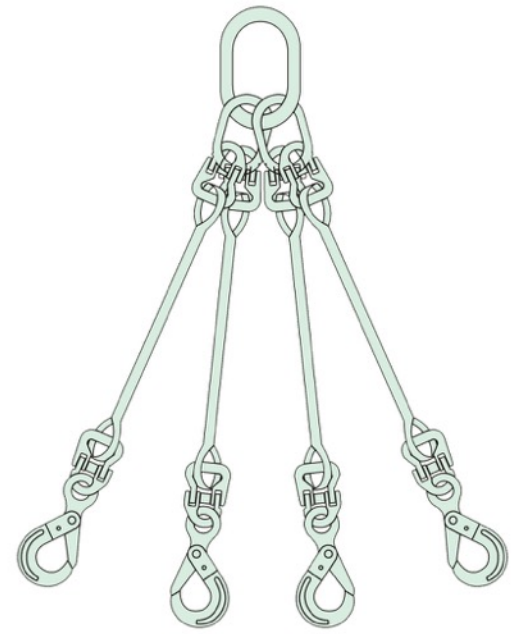
KMWC1



KMWC2

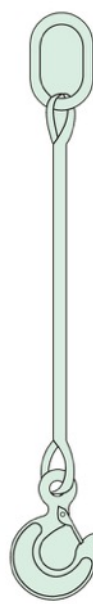


KMWC3

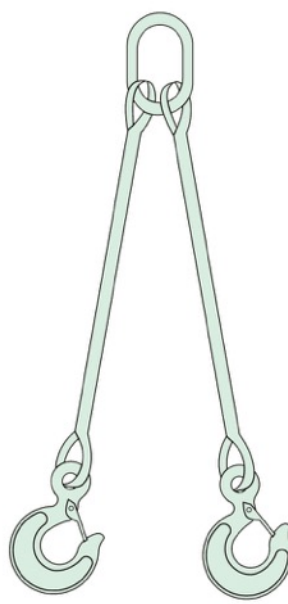


KMWC4

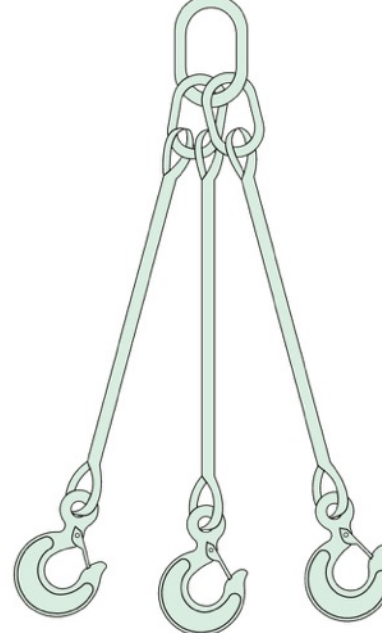
Multi leg slings with master link on top and eye hook at bottom without connectors manufactured from flat webbing slings



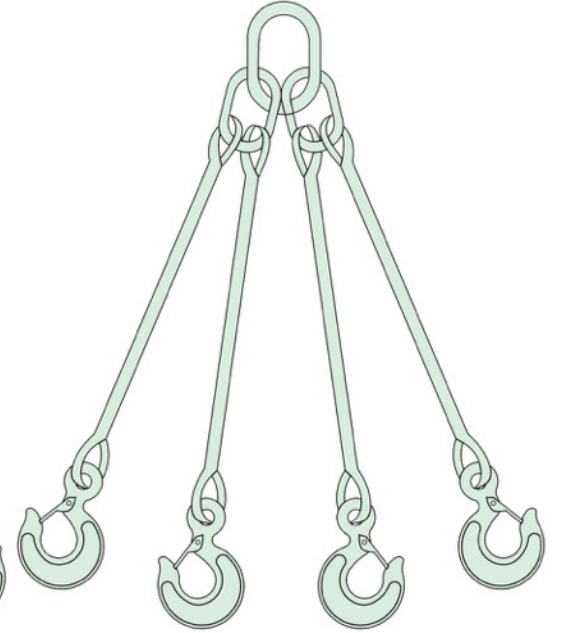
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KMW2

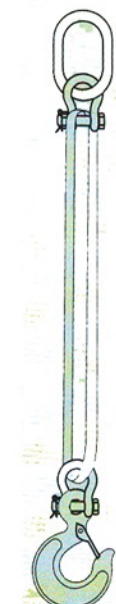


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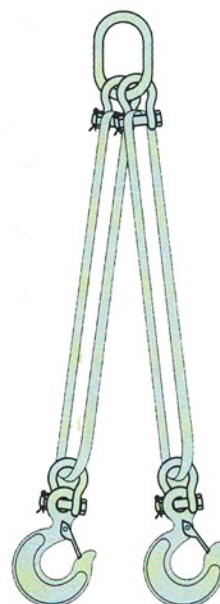


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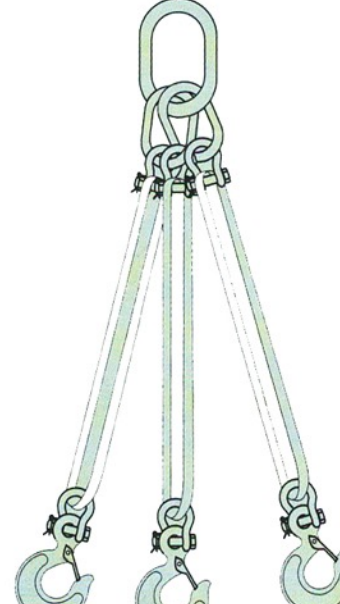
Multi leg slings with master link on top and eye hook at bottom connected with bow shackles manufactured from endless round slings



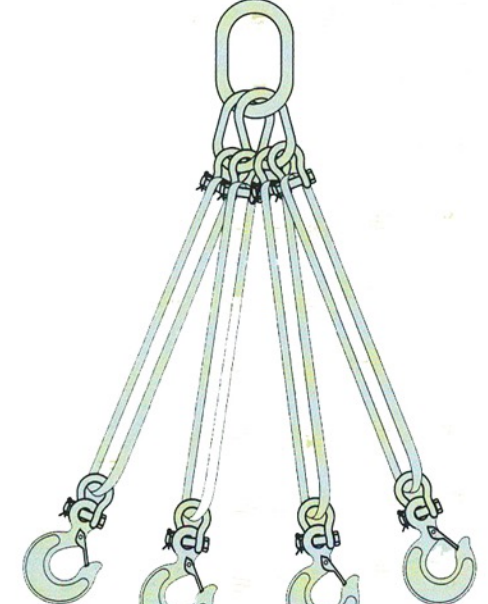
KMRS1



KMRS2



KMRS3



KMRS4

HOW TO ASSEMBLE A CONNECTING LINK



1. Place the locking sleeve between the assemble half link forgings.

2. Drive the pin through the assembled link ends and sleeve until the end of the pin is flush with the outside of the connecting link halves.

Discard Criteria:

The discards criteria for Multi Leg Slings is the same for Round Slings and Flat Webbing Slings. Please refer to the respective PDF.



FIG 3: TWO DOUBLE LEGGED DUPLO ROUND SLING ASSEMBLIES - 50 TONS CAPACITY



FIG 4: TWO DOUBLE LEGGED COMBINATION SLING WITH CHAIN AND POLYESTER USED FOR DIE LIFTING