Introduction to Webbing Slings

GPT-WS-0032 - Webbing slings

Type - Double ply polyester webbing sling with reinforced lifting eyes

9.0 - Technical specifications
- Wide & flat load bearing surface
- Sling has reinforced eyes at both ends
- Capacity from 1t to 12t
- Colour coded according to EN 1492-1.

9.1 - Characteristics
- Low elongation.

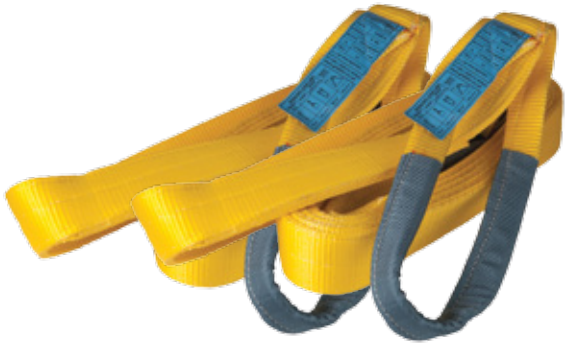
9.2 - Norms
- According to Machinery Directive 2006/42/EC & EN 1492-1
- Safety Factor: 7:1 to EN 1492-1

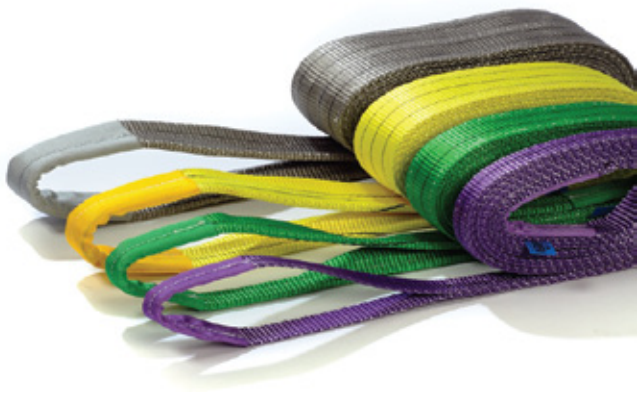
Flat Eye Slings are the most common type of sling. They can be used in all three hitches – Vertical, Choker, and Basket. In additional to the colour, the number of black lines on these slings indicates its WLL.

Selection of correct Webbing Sling:
Webbing slings are available in a range of materials and sizes in single leg and endless sling forms. Select the slings to be used and plan the lift taking the following into account:

9.3 - Material
- Polyester identified by a blue label is resistant to moderate strength acids but is damaged by alkalis; polyamide (Nylon) identified by a green label is virtually immune to alkalis but is damaged by acids; and polypropylene identified by a brown label is little affected by acids or alkalis but is damaged by some solvents, tars and paints and therefore, suitable for appliances where the highest resistance to chemicals other then solvents is required.

9.4 - Capacity
The sling must be both long enough and strong enough for the load and the slinging method. Apply the mode factor for the slinging method. For use at temperatures exceeding 80°C or below 0°C refer to the suppliers instructions. For flat woven slings made to BS EN 1492-1:2000 + A1: 2008 *Polyester And Polyamide -40ºC to 100º Polypropylene -40ºC to 80ºC Ranges vary in a chemical environment, in which case the advice of the manufacturer or supplier should be sought. If the slings are used in multi-leg arrangement the angle formed between the legs should not be less than 30° or greater than 90°. If abrasion, heat generated by friction or cutting from edges or corners are likely select a sling fitted with protective sleeves and/or use suitable packing. Slings with grade 8 fittings and multi-leg slings with grade 8 master links should not be used in acidic conditions. Contact with acids or acidic fumes causes hydrogen embrittlement to grade 8 materials. If exposure to chemicals is likely, the manufacturer or supplier should be consulted.





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Flat Polyester Webbing Sling										
			Single Ply				Double Ply			
			100%	200%	140%	80%	100%	200%	140%	80%
Colour	Width		SWL (Kg) in different angle modes				SWL (Kg) in different angle modes			
	Inch	mm								
Violet	1	25	500	1000	700	400	1000	2000	1400	800
Green	2	50	1000	2000	1400	800	2000	4000	2800	1600
Yellow	3	75	1500	3000	2100	1200	3000	6000	4200	2400
Grey	4	100	2000	4000	2800	1600	4000	8000	5600	3200
Red	5	125	2500	5000	3500	2000	5000	10000	7000	4000
Brown	6	150	3000	6000	4200	2400	6000	12000	8400	4800
Blue	8	200	4000	8000	5600	3200	8000	16000	11200	6400
Orange	10	250	5000	10000	7000	4000	10000	20000	14000	8000
Orange	12	300	6000	12000	8400	4800	12000	24000	16800	9600

Flat Polyester Webbing Sling										
			Three Ply				Four Ply			
			100%	200%	140%	80%	100%	200%	140%	80%
Colour	Width		SWL (Kg) in different angle modes				SWL (Kg) in different angle modes			
	Inch	mm								
Violet	1	25	1500	3000	2100	1200	2000	4000	2800	1600
Green	2	50	3000	6000	4200	2400	4000	8000	5600	3200
Yellow	3	75	4500	9000	6300	3600	6000	12000	8400	4800
Grey	4	100	6000	12000	8400	4800	8000	16000	11200	6400
Red	5	125	7500	15000	10500	6000	10000	20000	14000	8000
Brown	6	150	9000	18000	12600	7200	12000	24000	16800	9600
Blue	8	200	12000	24000	16800	9600	16000	32000	22400	12800
Orange	10	250	15000	30000	21000	12000	20000	40000	28000	16000
Orange	12	300	18000	36000	25200	14400	24000	48000	33600	19200