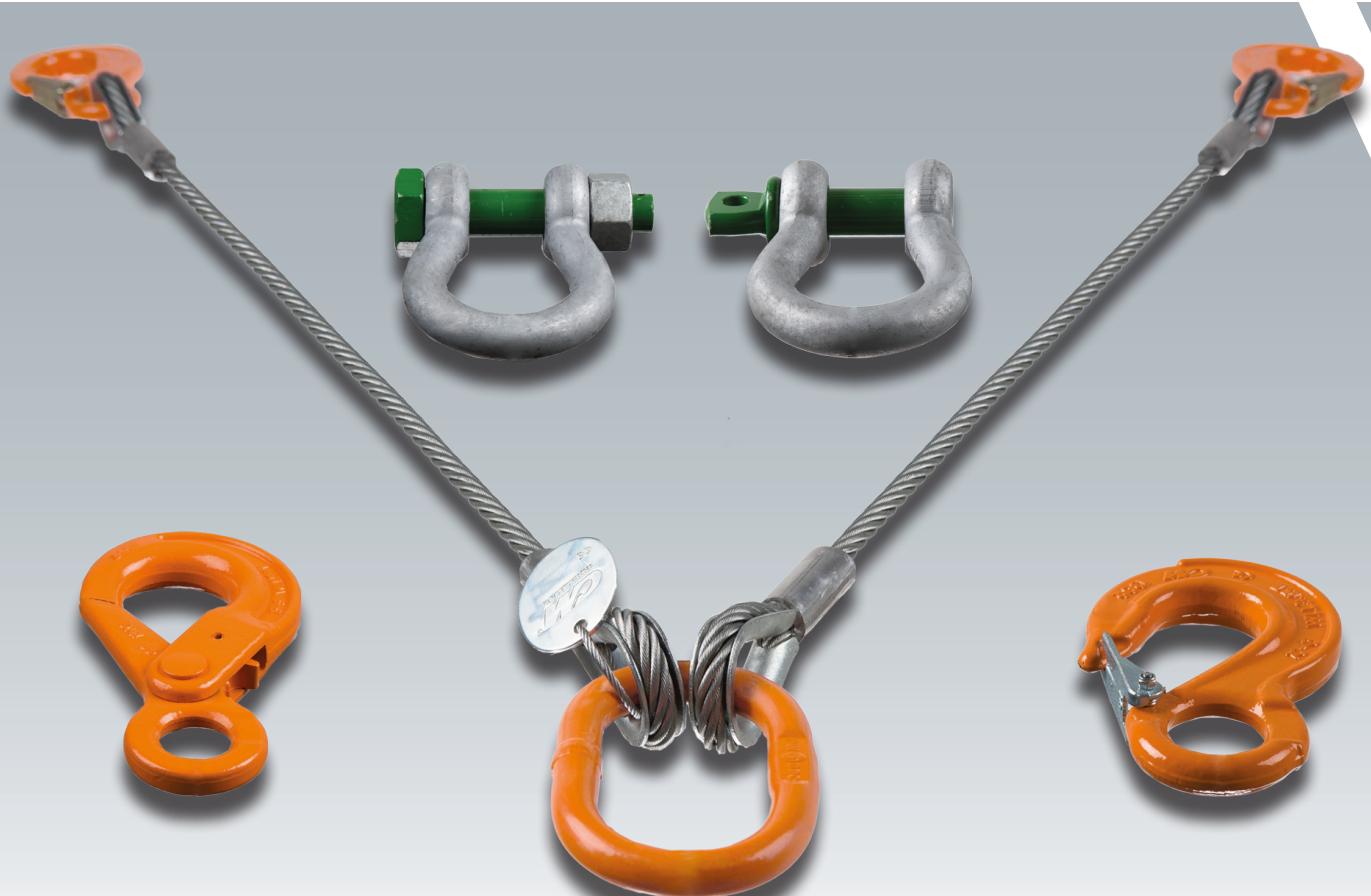


Wire rope bundles	44
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Rope slings



User instructions

The following instructions only provide a general overview of the use of rope slings and do not replace the equipment manufacturers' operating instructions. Please also read our general user instructions for load carrying equipment and slings.

Lifting with slings should only be carried out by a trained and authorised rigger. Slings with broken, damaged or deformed links or accessories, or where an overload or other damaging occurrence is known, must be taken out of service and only be reused after inspection and required repairs have been carried out.

Delivery condition

The sling's shape and finish may not be changed by bending, welding, grinding, disassembly, drilling holes, removal of safety sections such as locks, bolts and safety pins without the manufacturer's permission. This will invalidate the manufacturer's warranty and liability.

Use limitations

Temperature

Rope slings are only suitable for use in the following temperature ranges:



If they are used within permissible temperature ranges there is no lasting reduction in capacity once the rope has returned to normal temperature. Operating the rope above the maximum permissible tempera-

Rope end connection	Core	Permissible temperature	Load capacity
		°C	%
Aluminium wire rope clamp	Fibre	-40° to +100°	100
	Steel	-40° to +150°	100
Splice	Fibre	-40° to +100°	100
	Steel	-40° to +150°	100
	Steel	+150° to +200°	90
	Steel	+200° to +300°	75
	Steel	+300° to +400°	65

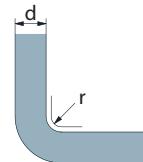
ture is not allowed and if this occurs it must be taken out of operation.

For use below -40°C, contact the manufacturer.

Edge loading



Rope slings must not be placed under tension or pulled across sharp edges without protection. There are suitable edge protectors and protective hoses in the accessories section. A sharp edge is defined as one where the edge radius r is smaller than rope diameter d .



Chemicals



Rope slings are not designed for use in acids, strong alkalines or their gases. Please consult us before use in such environments and if they have been exposed to such chemicals they should be taken out of use and assessed by us. Aluminium clamps also only have limited chemical resistance.

Use in dangerous conditions



Use in extreme conditions such as galvanising plants, acid baths and ovens, or in the transport of dangerous goods such as molten metals, caustic substances or radioactive/nuclear materials is not permitted without clearance, approval and guidance from a trained inspector.

Lifting ropes for access xxxx must comply with EN 14502-1 (suspended access equipment).

Usage instructions

Checking before first use

Before using a rope sling after delivery the following should be checked:

- The rope sling must match the order
- It must include the manufacturer's certificate
- The manufacturer's mark and load capacity on the sling must match the manufacturer's certificate

Check before starting work

Only use undamaged rope slings with legible load capacity information.

Before use check the rope for obvious defects such as kinks, corrosion, clamp damage etc:

- Check the rope sling for obvious defects (kinks, strong corrosion, damaged wire rope clamp, etc.)

Rope slings

► User instructions

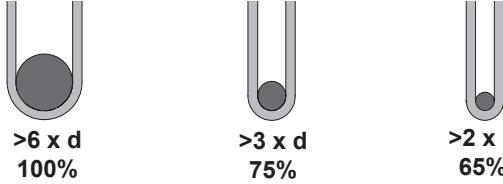
- Check the rope sling's load tag and the weight to be lifted
- Check if the sling type, rope sling, length and methods of attachment are suitable
- Check that the load can be moved freely and lifted safely
- Always wear gloves when working with rope slings

The load capacities specified assume impact-free loading. Slight impacts such as those caused by lifting, lowering or moving the load on the crane are allowed. Strong impact such as striking the load during transport or swinging the load are not permitted.

If rope slings with tight radii are bent, the load capacities should be reduced according to the table below to ensure optimum safety and service life, and to avoid lasting deformation or damage.

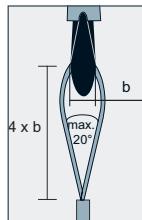
Rope slings		Cable-laid rope	
Load diameter	% of the load capacity	Load diameter	% of the load capacity
>6 x d	100	>4 x d	100
>3 x d	75	>1 x d	75
>2 x d (d = rope diameter)	65		

>6 x d 100% **>3 x d 75%** **>2 x d 65%**



For single stranded or endless rope slings, the sling point should be located vertically above the centre of gravity. For multi-strand rope slings, the sling point should be on one level and around the centre of gravity. Make sure the correct sling type and rope sling are selected.

The opening angle of the rope loop may not exceed 20° otherwise the wire rope clamp will be damaged. If loops are to be suspended from a crane hook with inserted thimbles they must have enough space to move freely.



- Components such as lifting rings, load hooks and shackles must be able to move freely. Lifting rings must have enough space in the crane hook to move freely.

- If loads are slung more than once the rope swing windings must be laid close together and not cross.

- Rope slings may not be shortened by entwining the crane hook, knotted or lengthened by knotting together several slings.



- Wire rope clamps, splices and the red marked area of endless cable-laid ropes must not be allowed to bend. They should not lie on the load edges, in the crane hook area or in strappings. Otherwise the rope bundle of the cable-laid rope will be irreparably damaged (see image)!

- If a single rope sling is used (especially for spliced ropes) suitable measures are to be taken to counter the rope rotating under load – for example by attaching a load rope so the rigger can guide the load. Rope slings may not be tensioned by twisting, which risks damaging the load or rope bundle

- The load must not be set down directly onto the sling.

Rope sling storage

Rope slings should be stored in a dry, clean location, preferably hung up, away from harmful chemicals and not accidentally damaged. Storage temperatures must be within the permissible range (see permissible temperature ranges).

Rejection criteria

If during checking any one of the following criteria are met, the rope sling should be discarded:



- If the label is no longer in place or illegible.
- Cracks, deformation, wear or excessive corrosion are evident in lifting rings, links, load hooks or thimbles.
- Cracks and deformation or wear of more than 5% on wire rope clamps, loose or free splices.
- More than 10% wear of the rope's diameter.
- Braid breakage.
- Loosening of the outer layer of the free length.
- Core emerging.
- Burning of power lines, welds etc

- Kinks and bends.



- Compression of the free length.



- Excessive corrosion.



- Closely packed wire breaks such as three adjacent breaks in the outer braid wire; maximum permissible number of visible and random breaks in exterior wires (according to EN 13414-2):



Rope sling type	Length of 6 x d	Length of 30 x d
Steel wire rope	6	14
Cable-laid rope	15	40
d... Rope diameter		

Maintenance, testing and repair of rope

Labelling

All wire rope and wire rope slings are shipped with a stamp or load capacity tag with a sequential test number, conformity and factory certification and user instructions.

Wire rope straps

Registered manufacturer mark of Yale Industrial Products Kft. Fachverband Seile und Anschlagmittel e.V. (Trade Association for Ropes and Load Attachment Rigging)



Direct load capacity 0°

Legal mark according to MSV



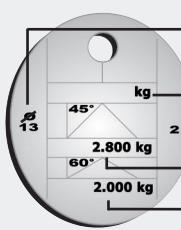
Serial number

Month + year of manufacture

Wire rope slings



Month + year of manufacture
Serial number
Label acc. to EC Machinery Directive



Rope diameter
Load capacity perpendicular (for single-stranded hangers)
Number of strands
Load capacity at 0-45° inclination angle
Load capacity at 46-60° inclination angle

Rope slings

► User instructions

Load capacity table



Load capacity WLL in t for symmetrical loading according to EN 13414 (also see general advice for slings here.)

Safety factor		1 strand		2 strands				3 and 4 strands		Endless rope	
5											
Inclination angle		0°	0°	0 - 45°	46° - 60°	0 - 45°	46° - 60°	0 - 45°	46° - 60°	0°	0°
Load factor		1	0.8	1.4	1	1.12	0.8	2.1	1.5	2	1.6
Rope thickness (mm)	Core	Load capacity (t)									
8	IWRC	0.75	0.60	1.05	0.75	0.84	0.60	1.55	1.10	1.50	1.20
10	IWRC	1.15	0.92	1.60	1.15	1.28	0.92	2.40	1.70	2.30	1.85
12	IWRC	1.70	1.36	2.30	1.70	1.90	1.36	3.55	2.50	3.40	2.70
14	IWRC	2.25	1.80	3.15	2.25	2.52	1.80	4.80	3.40	4.50	3.60
16	IWRC	3.00	2.40	4.20	3.00	3.36	2.40	6.30	4.50	6.00	4.80
18	FC	3.40	2.72	4.80	3.40	3.80	2.72	7.20	5.20	6.80	5.65
20	FC	4.35	3.48	6.00	4.35	4.87	3.48	9.00	6.50	8.70	6.90
22	FC	5.20	4.16	7.20	5.20	5.82	4.16	11.00	7.80	10.40	8.40
24	FC	6.30	5.04	8.80	6.30	7.05	5.04	13.50	9.40	12.60	10.00
26	FC	7.20	5.76	10.00	7.20	8.06	5.76	15.00	11.00	14.40	11.80
30	IWRC	11.10	8.88	15.50	11.10	12.43	8.88	23.30	16.60	22.20	17.70
40	IWRC	18.50	14.80	26.00	18.50	20.72	14.80	39.00	28.00	37.00	30.00

Reduction factors

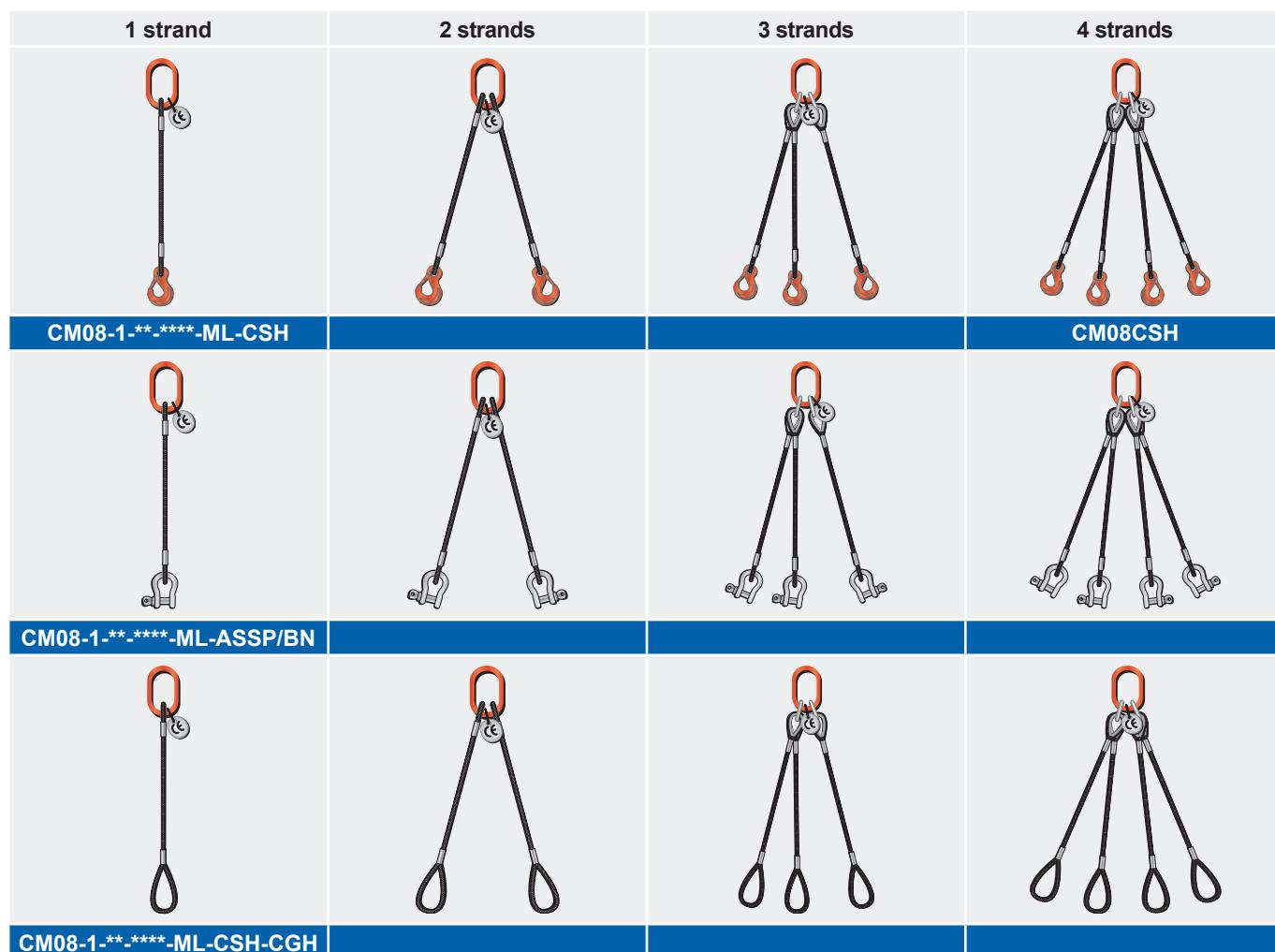


If the chains are subject to load obstacles (e.g. temperature too high, edge loading ...), the maximum loading capacities in the loading table are to be reduced. The load factors below are to be used for this. Please also note the details in the user information.

Rope end connection	Core	Permissible temperature	Load factor
°C			
Aluminium wire rope clamp	Fibre	-40° to +100°	1
	Steel	-40° to +150°	1
Splice	Fibre	-40° to +100°	1
	Steel	-40° to +150°	1
	Steel	+150° to +200°	0.9
	Steel	+200° to +300°	0.75
	Steel	+300° to +400°	0.65

Rope slings		Cable-laid rope	
Load diameter	Load factor	Load diameter	Load factor
>6 x d	1	>4 x d	1
>3 x d	0.75	>1 x d	0.75
>2 x d	0.65		

Most commonly used wire rope slings



Designation

WRFC-2-08-300-ML-CSH

Length in cm

Rope diameter in mm:
08...8 mm
10...10 mm
...

Number of strands:

1...1 strand
2...2 strands
3...3 strands
4...4 strands

Rope core:
FC..
SC..

End fitting

ESH
ESLH
SEH
CSH
P (special loop length in mm)
K
ASSP/BN

Lifting ring

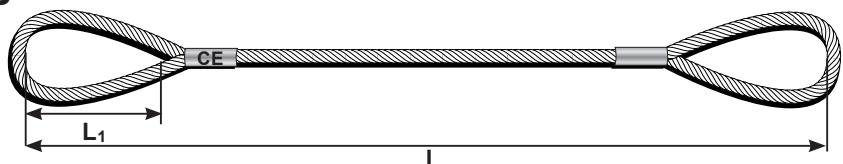
ML...1/2-strand
SA...3/4-strand
P0250
K

Rope slings

► Wire rope straps & wire rope slings

Wire rope strap WR*-1-**-***-P-P

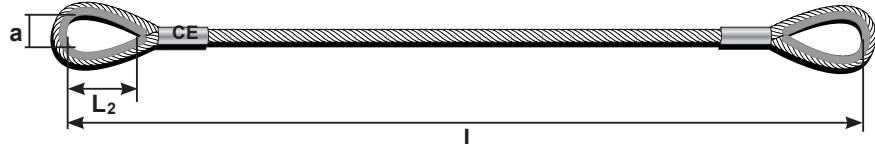
with loops pressed in on both sides
galvanised finish



Type	Rope diameter	Load capacity 0°	Loop length L ₁ Standard	L ₁ min. 1	shortest poss. Length L	L min. 2	Price for L =			
							2 m	3 m	4 m	each additional m
	mm	t	mm	mm	m	m	EUR			
WRSC-1-08-***-P-P	8	0.75	200	120	0.64	0.48				
WRSC-1-10-***-P-P	10	1.15	250	150	0.80	0.60				
WRSC-1-12-***-P-P	12	1.70	250	180	0.86	0.72				
WRSC-1-14-***-P-P	14	2.25	250	210	0.92	0.84				
WRSC-1-16-***-P-P	16	3.00	250	240	0.98	0.96				
WRFC-1-18-***-P-P	18	3.40	300	270	1.12	1.06				
WRFC-1-20-***-P-P	20	4.35	300	300	1.18	1.18				
WRFC-1-22-***-P-P	22	5.20	330	330	1.30	1.30				
WRFC-1-24-***-P-P	24	6.30	360	360	1.42	1.42				
WRFC-1-26-***-P-P	26	7.20	390	390	1.53	1.53				
WRSC-1-30-***-P-P	30	11.10	465	465	1.84	1.84				
WRSC-1-40-***-P-P	40	18.50	600	600	2.40	2.40	Price on request			

Wire rope strap WR*-1-**-***-K-K

with thimbles pressed in on both sides
galvanised finish



Type	Rope diameter	Load capacity 0°	Thimble width a	Thimble length L ₂	shortest poss. Length L	m	Price for L =			
							2 m	3 m	4 m	each additional m
	mm	t	mm	mm	m		EUR			
WRSC-1-08-***-K-K	8	0.75	24	38	0.34					
WRSC-1-10-***-K-K	10	1.15	28	45	0.41					
WRSC-1-12-***-K-K	12	1.70	32	51	0.49					
WRSC-1-14-***-K-K	14	2.25	36	58	0.58					
WRSC-1-16-***-K-K	16	3.00	40	64	0.65					
WRFC-1-18-***-K-K	18	3.40	45	72	0.72					
WRFC-1-20-***-K-K	20	4.35	50	80	0.80					
WRFC-1-22-***-K-K	22	5.20	56	90	0.88					
WRFC-1-24-***-K-K	24	6.30	62	99	0.96					
WRFC-1-26-***-K-K	26	7.20	70	112	1.06					
WRSC-1-30-***-K-K	30	11.10	80	128	1.26					
WRSC-1-40-***-K-K	40	18.50	120	192	1.74		Price on request			

1...smallest possible loop according to EN 13411-3

*Rope core

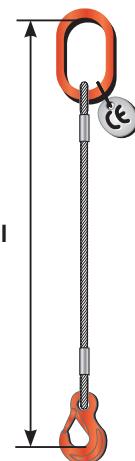
2...shortest possible length with loop according to EN 13411-3

Diameter

**** Length in mm

Wire rope sling WR*-1-**-***-ML-ESH

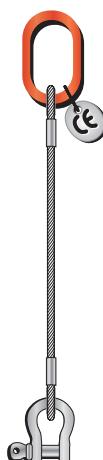
Galvanised finish



Type	Rope diameter	Load capacity 0°	Price for L =			each additional m
			2 m	3 m	4 m	
	mm	t	EUR			
WRSC-1-08-***-ML-ESH	8	0.75				
WRSC-1-10-***-ML-ESH	10	1.15				
WRSC-1-12-***-ML-ESH	12	1.70				
WRSC-1-14-***-ML-ESH	14	2.25				
WRSC-1-16-***-ML-ESH	16	3.00				
WRFC-1-18-***-ML-ESH	18	3.40				
WRFC-1-20-***-ML-ESH	20	4.35				
WRFC-1-22-***-ML-ESH	22	5.20				
WRFC-1-24-***-ML-ESH	24	6.30				
WRFC-1-26-***-ML-ESH	26	7.20				
WRSC-1-30-***-ML-ESH	30	11.10				
WRSC-1-40-***-ML-ESH	40	18.50	Price on request			

Wire rope sling WR*-1-**-***-ML-ASSP

Galvanised finish



Type	Rope diameter	Load capacity 0°	Price for L =			each additional m
			2 m	3 m	4 m	
	mm	t	EUR			
WRSC-1-08-***-ML-ASSP	8	0.75				
WRSC-1-10-***-ML-ASSP	10	1.15				
WRSC-1-12-***-ML-ASSP	12	1.70				
WRSC-1-14-***-ML-ASSP	14	2.25				
WRSC-1-16-***-ML-ASSP	16	3.00				
WRFC-1-18-***-ML-ASSP	18	3.40				
WRFC-1-20-***-ML-ASSP	20	4.35				
WRFC-1-22-***-ML-ASSP	22	5.20				
WRFC-1-24-***-ML-ASSP	24	6.30				
WRFC-1-26-***-ML-ASSP	26	7.20				
WRSC-1-30-***-ML-ASSP	30	11.10				
WRSC-1-40-***-ML-ASSP	40	18.50	Price on request			

*Rope core

** Diameter

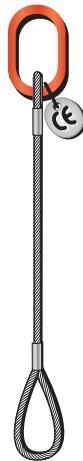
*** Length in mm

Rope slings

► Wire rope slings

Wire rope sling WR*-1-**-***-ML-P

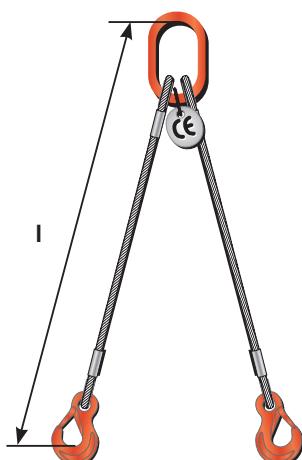
Galvanised finish



Type	Rope diameter	Load capacity 0°	Price for L =			each additional m
			2 m	3 m	4 m	
	mm	t	EUR			
WRSC-1-08-***-ML-P	8	0.75				
WRSC-1-10-***-ML-P	10	1.15				
WRSC-1-12-***-ML-P	12	1.70				
WRSC-1-14-***-ML-P	14	2.25				
WRSC-1-16-***-ML-P	16	3.00				
WRFC-1-18-***-ML-P	18	3.40				
WRFC-1-20-***-ML-P	20	4.35				
WRFC-1-22-***-ML-P	22	5.20				
WRFC-1-24-***-ML-P	24	6.30				
WRFC-1-26-***-ML-P	26	7.20				
WRSC-1-30-***-ML-P	30	11.10				
WRSC-1-40-***-ML-P	40	18.50	Price on request			

Wire rope sling WR*-2-**-***-ML-ESH

Galvanised finish



Type	Rope diameter	Load capacity		Price for L =			each additional m
		0° - 45°	46° - 60°	2 m	3 m	4 m	
	mm	t	t	EUR			
WRSC-2-08-***-ML-ESH	8	1.05	0.75				
WRSC-2-10-***-ML-ESH	10	1.60	1.15				
WRSC-2-12-***-ML-ESH	12	2.30	1.70				
WRSC-2-14-***-ML-ESH	14	3.15	2.25				
WRSC-2-16-***-ML-ESH	16	4.20	3.00				
WRFC-2-18-***-ML-ESH	18	4.80	3.40				
WRFC-2-20-***-ML-ESH	20	6.00	4.35				
WRFC-2-22-***-ML-ESH	22	7.20	5.20				
WRFC-2-24-***-ML-ESH	24	8.80	6.30				
WRFC-2-26-***-ML-ESH	26	10.00	7.20				
WRSC-2-30-***-ML-ESH	30	15.50	11.10				
WRSC-2-40-***-ML-ESH	40	26.00	18.50	Price on request			

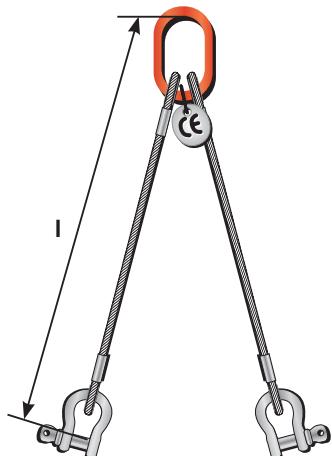
*Rope core

** Diameter

**** Length in mm

Wire rope sling WR*-2-**-***-ML-ASSP

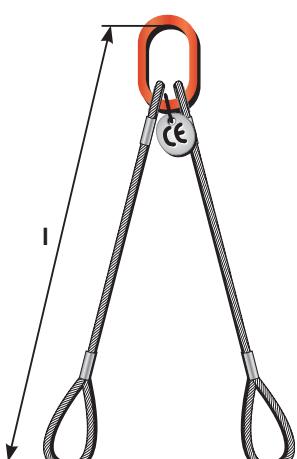
Galvanised finish



Type	Rope diameter	Load capacity		Price for L =			each additional m
		0° - 45°	46° - 60°	2 m	3 m	4 m	
	mm	t	t	EUR			
WRSC-1-08-***-ML-ASSP	8	1.05	0.75				
WRSC-1-10-***-ML-ASSP	10	1.60	1.15				
WRSC-1-12-***-ML-ASSP	12	2.30	1.70				
WRSC-1-14-***-ML-ASSP	14	3.15	2.25				
WRSC-1-16-***-ML-ASSP	16	4.20	3.00				
WRFC-1-18-***-ML-ASSP	18	4.80	3.40				
WRFC-1-20-***-ML-ASSP	20	6.00	4.35				
WRFC-1-22-***-ML-ASSP	22	7.20	5.20				
WRFC-1-24-***-ML-ASSP	24	8.80	6.30				
WRFC-1-26-***-ML-ASSP	26	10.00	7.20				
WRSC-1-30-***-ML-ASSP	30	15.50	11.10				
WRSC-1-40-***-ML-ASSP	40	26.00	18.50	Price on request			

Wire rope sling WR*-2-**-***-ML-P

Galvanised finish



Type	Rope diameter	Load capacity		Price for L =			each additional m
		0° - 45°	46° - 60°	2 m	3 m	4 m	
	mm	t	t	EUR			
WRSC-2-08-***-ML-P	8	1.05	0.75				
WRSC-2-10-***-ML-P	10	1.60	1.15				
WRSC-2-12-***-ML-P	12	2.30	1.70				
WRSC-2-14-***-ML-P	14	3.15	2.25				
WRSC-2-16-***-ML-P	16	4.20	3.00				
WRFC-2-18-***-ML-P	18	4.80	3.40				
WRFC-2-20-***-ML-P	20	6.00	4.35				
WRFC-2-22-***-ML-P	22	7.20	5.20				
WRFC-2-24-***-ML-P	24	8.80	6.30				
WRFC-2-26-***-ML-P	26	10.00	7.20				
WRSC-2-30-***-ML-P	30	15.50	11.10				
WRSC-2-40-***-ML-P	40	26.00	18.50	Price on request			

*Rope core

** Diameter

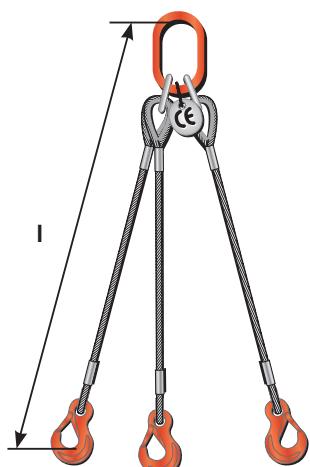
**** Length in mm

Rope slings

► Wire rope slings

Wire rope sling WR*-3-**-***-ML-ESH

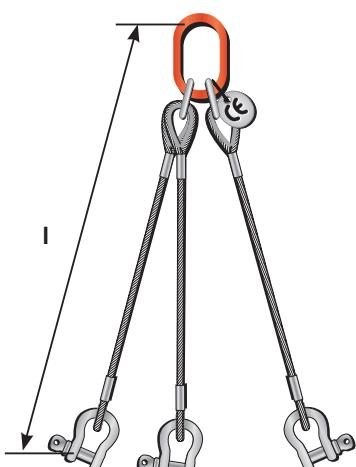
Galvanised finish



Type	Rope diameter	Load capacity		Price for L =			each additional m
		0° - 45°	46° - 60°	2 m	3 m	4 m	
	mm	t	t	EUR			
WRSC-3-08-***-ML-ESH	8	1.55	1.10				
WRSC-3-10-***-ML-ESH	10	2.40	1.70				
WRSC-3-12-***-ML-ESH	12	3.55	2.50				
WRSC-3-14-***-ML-ESH	14	4.80	3.40				
WRSC-3-16-***-ML-ESH	16	6.30	4.50				
WRFC-3-18-***-ML-ESH	18	7.20	5.20				
WRFC-3-20-***-ML-ESH	20	9.00	6.50				
WRFC-3-22-***-ML-ESH	22	11.00	7.80				
WRFC-3-24-***-ML-ESH	24	13.50	9.40				
WRFC-3-26-***-ML-ESH	26	15.00	11.00				
WRSC-3-30-***-ML-ESH	30	23.30	16.60				
WRSC-3-40-***-ML-ESH	40	39.00	28.00	Price on request			

Wire rope slings WR*-3-**-***-ML-ASSP

Galvanised finish



Type	Rope diameter	Load capacity		Price for L =			each additional m
		0° - 45°	46° - 60°	2 m	3 m	4 m	
	mm	t	t	EUR			
WRSC-3-08-***-ML-ASSP	8	1.55	1.10				
WRSC-3-10-***-ML-ASSP	10	2.40	1.70				
WRSC-3-12-***-ML-ASSP	12	3.55	2.50				
WRSC-3-14-***-ML-ASSP	14	4.80	3.40				
WRSC-3-16-***-ML-ASSP	16	6.30	4.50				
WRFC-3-18-***-ML-ASSP	18	7.20	5.20				
WRFC-3-20-***-ML-ASSP	20	9.00	6.50				
WRFC-3-22-***-ML-ASSP	22	11.00	7.80				
WRFC-3-24-***-ML-ASSP	24	13.50	9.40				
WRFC-3-26-***-ML-ASSP	26	15.00	11.00				
WRSC-3-30-***-ML-ASSP	30	23.30	16.60				
WRSC-3-40-***-ML-ASSP	40	39.00	28.00	Price on request			

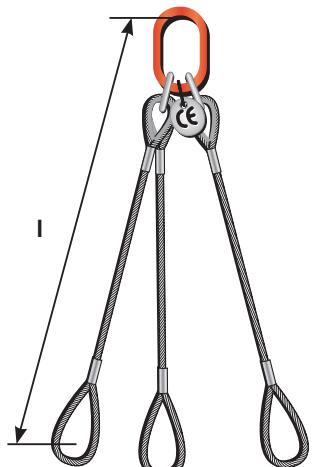
*Rope core

** Diameter

**** Length in mm

Wire rope slings WR*-3-**-***-ML-P

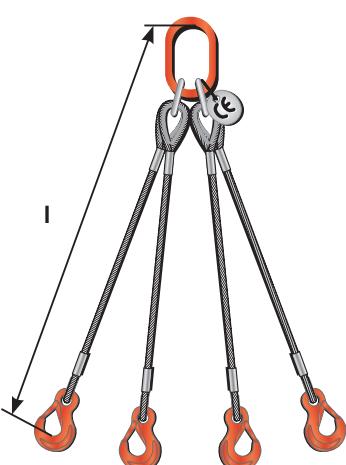
Galvanised finish



Type	Rope diameter	Load capacity		Price for L =			each additional m
		0° - 45°	46° - 60°	2 m	3 m	4 m	
	mm	t	t	EUR			
WRSC-3-08-***-ML-P	8	1.55	1.10				
WRSC-3-10-***-ML-P	10	2.40	1.70				
WRSC-3-12-***-ML-P	12	3.55	2.50				
WRSC-3-14-***-ML-P	14	4.80	3.40				
WRSC-3-16-***-ML-P	16	6.30	4.50				
WRFC-3-18-***-ML-P	18	7.20	5.20				
WRFC-3-20-***-ML-P	20	9.00	6.50				
WRFC-3-22-***-ML-P	22	11.00	7.80				
WRFC-3-24-***-ML-P	24	13.50	9.40				
WRFC-3-26-***-ML-P	26	15.00	11.00				
WRSC-3-30-***-ML-P	30	23.30	16.60				
WRSC-3-40-***-ML-P	40	39.00	28.00	Price on request			

Wire rope sling WR*-4-**-***-ML-ESH

Galvanised finish



Type	Rope diameter	Load capacity		Price for L =			each additional m
		0° - 45°	46° - 60°	2 m	3 m	4 m	
	mm	t	t	EUR			
WRSC-4-08-***-ML-ESH	8	1.55	1.10				
WRSC-4-10-***-ML-ESH	10	2.40	1.70				
WRSC-4-12-***-ML-ESH	12	3.55	2.50				
WRSC-4-14-***-ML-ESH	14	4.80	3.40				
WRSC-4-16-***-ML-ESH	16	6.30	4.50				
WRFC-4-18-***-ML-ESH	18	7.20	5.20				
WRFC-4-20-***-ML-ESH	20	9.00	6.50				
WRFC-4-22-***-ML-ESH	22	11.00	7.80				
WRFC-4-24-***-ML-ESH	24	13.50	9.40				
WRFC-4-26-***-ML-ESH	26	15.00	11.00				
WRSC-4-30-***-ML-ESH	30	23.30	16.60				
WRSC-4-40-***-ML-ESH	40	39.00	28.00	Price on request			

*Rope core

** Diameter

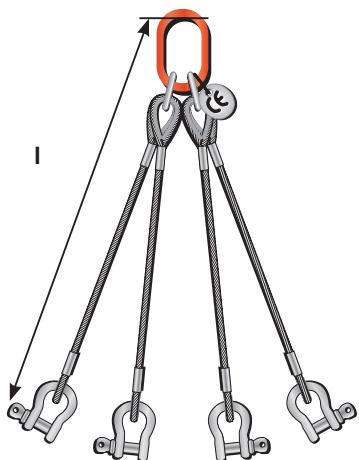
**** Length in mm

Rope slings

► Wire rope slings

Wire rope slings WR*-3-**-***-ML-ASSP

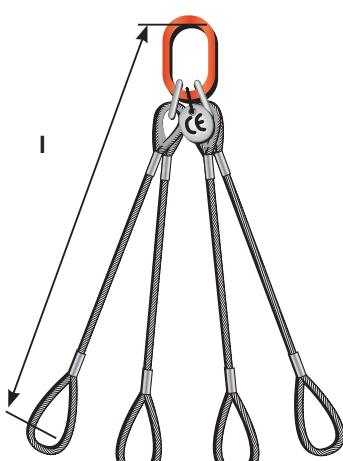
Galvanised finish



Type	Rope diameter mm	Load capacity		Price for L =			each additional m
		0° - 45° t	46° - 60° t	2 m	3 m	4 m	
EUR							
WRSC-4-08-***-ML-ASSP	8	1.55	1.10				
WRSC-4-10-***-ML-ASSP	10	2.40	1.70				
WRSC-4-12-***-ML-ASSP	12	3.55	2.50				
WRSC-4-14-***-ML-ASSP	14	4.80	3.40				
WRSC-4-16-***-ML-ASSP	16	6.30	4.50				
WRFC-4-18-***-ML-ASSP	18	7.20	5.20				
WRFC-4-20-***-ML-ASSP	20	9.00	6.50				
WRFC-4-22-***-ML-ASSP	22	11.00	7.80				
WRFC-4-24-***-ML-ASSP	24	13.50	9.40				
WRFC-4-26-***-ML-ASSP	26	15.00	11.00				
WRSC-4-30-***-ML-ASSP	30	23.30	16.60				
WRSC-4-40-***-ML-ASSP	40	39.00	28.00	Price on request			

Wire rope slings WR*-3-**-***-ML-P

Galvanised finish



Type	Rope diameter mm	Load capacity		Price for L =			each additional m
		0° - 45° t	46° - 60° t	2 m	3 m	4 m	
EUR							
WRSC-4-08-***-ML-P	8	1.55	1.10				
WRSC-4-10-***-ML-P	10	2.40	1.70				
WRSC-4-12-***-ML-P	12	3.55	2.50				
WRSC-4-14-***-ML-P	14	4.80	3.40				
WRSC-4-16-***-ML-P	16	6.30	4.50				
WRFC-4-18-***-ML-P	18	7.20	5.20				
WRFC-4-20-***-ML-P	20	9.00	6.50				
WRFC-4-22-***-ML-P	22	11.00	7.80				
WRFC-4-24-***-ML-P	24	13.50	9.40				
WRFC-4-26-***-ML-P	26	15.00	11.00				
WRSC-4-30-***-ML-P	30	23.30	16.60				
WRSC-4-40-***-ML-P	40	39.00	28.00	Price on request			

*Rope core

** Diameter

**** Length in mm

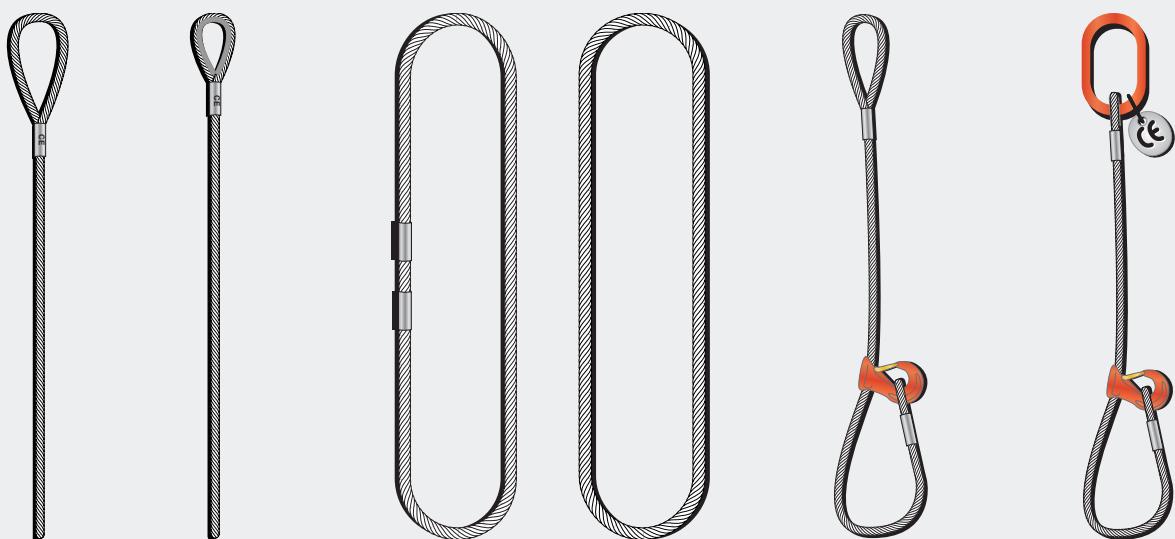
Standard program rope slings



Rope diameter	Construction according to EN 12385-4	New designation	Old designation		Strength	Surface	Minimum breaking force	Price per m
			Core	according to DIN				
					N/mm ²		daN	EUR
WRSC-08	6 x 19S	IWRC	3058	SE	1,770	VZ	4,030	
WRSC-10	6 X 36S	IWRC	3064	SE	1,770	VZ	6,300	
WRSC-12	6 X 36S	IWRC	3064	SE	1,770	VZ	9,070	
WRSC-14	6 X 36S	IWRC	3064	SE	1,770	VZ	12,400	
WRSC-16	6 X 36S	IWRC	3064	SE	1,770	VZ	16,100	
WRFC-18	6 X 36S	FC	3064	FE	1,770	VZ	18,900	
WRFC-20	6 X 36S	FC	3064	FE	1,770	VZ	23,400	
WRFC-22	6 X 36S	FC	3064	FE	1,770	VZ	28,300	
WRFC-24	6 X 36S	FC	3064	FE	1,770	VZ	33,600	
WRFC-26	6 X 36S	FC	3064	FE	1,770	VZ	39,500	
WRSC-30	6 X 36S	IWRC	3064	SE	1,960	VZ	62,800	
WRSC-40	6 X 36S	IWRC	3064	SE	1,770	VZ	101,000	on request

FC = Fibre core SC = Steel core

Other designs on request

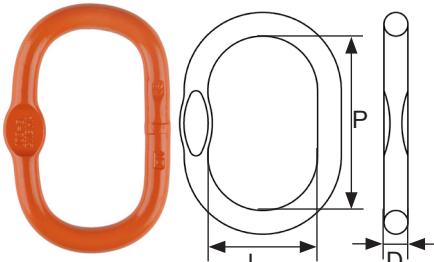


Rope slings

► Wire rope sling accessories

Lifting ring CM08ML

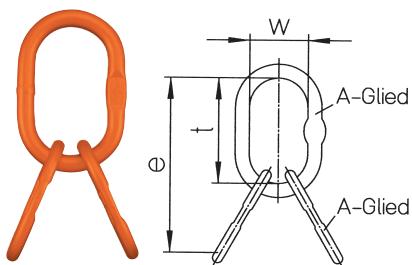
Grade 8 according to EN 1677-4
Suspension link for 1+2 wire rope slings. Can also be used as end link.



Type	Load capacity	D	P	I	Lifting ring for rope diameter		Weight	Price per item
					1 strand	2 strands		
CM08ML-D13	1.60	13	110	60	6/7	6	0.34	2.10
CM08ML-D16	2.12	16	110	60	8	7	0.54	3.10
CM08ML-D18	3.15	18	135	75	10	8	0.82	4.50
CM08ML-D22	5.30	22	160	90	13	10	1.50	8.00
CM08ML-D26	8.00	26	180	100	16	13	2.32	12.30
CM08ML-D32	11.20	32	200	110	18	16	3.95	22.60
CM08ML-D36	14.00	36	260	140	20	18	6.34	on request
CM08ML-D40	17.00	40	300	160	22	20	8.96	on request
CM08ML-D45	21.20	45	340	180	26	22	12.80	on request
CM08ML-D50	31.50	50	350	190	32	26	16.55	on request

Over-size suspension link OSA

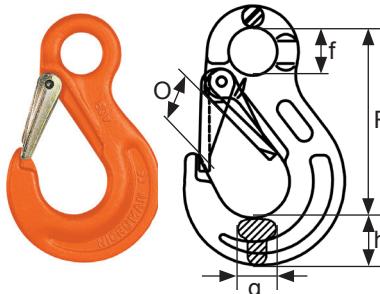
For 3 and 4-strand wire rope slings



Type	Load capacity 0° - 45°	e	t	w	Weight	Suspension link for rope diameter		Price per item
						3+4 strands	mm	
CM10OSA-0607	5.00	245	135	75	1.72	8 - 14		
CM10OSA-8	6.30	270	160	90	2.66	16		
CM10OSA-10	9.50	315	180	100	4.30	18 - 20		
CM10OSA-13	16.10	380	200	110	9.06	22 - 26		
CM10OSA-16	25.10	460	260	140	14.50	30		
CM10OSA-19/20	41.10	625	350	190	31.51	40		

Eyehooks CM08ESH

Grade 8 according to EN 1677-2
With forged safety latch.



Type	Load capacity	g	h	O	R	f	Weight	Price per item	
								t	mm
CM08ESH-06	1.12	16.5	20	18.5	84.5	20.5	0.30		1.90
CM08ESH-08	2.00	19.0	27	22.0	106.0	25.0	0.55		2.50
CM08ESH-10	3.15	26.0	33	28.0	131.0	34.0	1.05		5.20
CM08ESH-13	5.30	33.0	40	35.0	164.0	42.5	1.75		9.70
CM08ESH-16	8.00	40.0	48	43.0	182.0	52.0	3.20		18.30
CM08ESH-20	12.50	48.0	56	51.5	205.0	62.0	5.30	on request	
CM08ESH-22	15.00	44.0	75.5	71	241.0	62	9.20	on request	
CM08ESH-26	21.20	60.0	80.5	81	279.0	64	13.00	on request	
CM08ESH-32	31.50	66.0	88.0	102	355.0	88	17.00	on request	

Standard shackle -curved

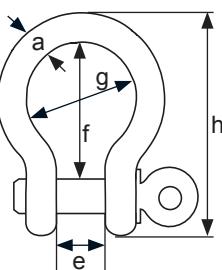
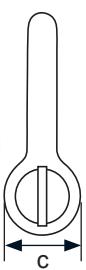
ASSP/ASBN

Finish: galvanised

Material: bracket and bolts made from hardened and tempered steel.

Safety factor: 5 times WLL = minimum breakage load.

Temperature range : -20 °C to +200 °C



ASSP-RR/EN

ASBP-RR/EN

Load capacity	suitable for rope	Dimensions							Weight		Price per item				
									ASSP	ASBN	ASSP		ASBN		
		t	mm	mm	mm	mm	mm	mm	kg	kg	RR	EN	RR	EN	
0.50			16.5	48.5	12.0	7.0	20.0	8.0	0.05	0.06	-	3.40	-	5.00	
0.75			20.0	56.0	13.5	9.0	22.0	10.0	0.10	0.11	-	4.50	-	6.10	
1.00			22.5	63.5	17.0	10.0	26.0	11.0	0.14	0.16	1.10	4.60	1.40	6.30	
1.50			26.5	74.0	19.0	11.0	29.0	13.0	0.19	0.22	1.20	5.20	1.60	7.10	
2.00			34.0	89.0	22.0	13.5	32.0	16.0	0.36	0.42	1.70	6.50	1.90	7.70	
3.25	8 - 16	40.0	110.0	27.0	16.0	43.0	19.0	64.0	0.63	0.74	2.90	8.00	3.30	10.90	
4.75	18 - 20	46.0	129.0	31.0	19.0	51.0	22.0	76.0	1.01	1.18	4.60	11.00	5.10	13.80	
6.50	22	52.0	144.0	36.0	22.0	58.0	25.0	83.0	1.50	1.77	6.50	15.20	7.40	20.40	
8.50	24 - 26	59.0	164.0	43.0	25.0	68.0	28.0	95.0	2.21	2.58	9.80	24.40	11.50	29.20	
9.50			66.0	185.0	47.0	28.0	75.0	32.0	108.0	3.16	3.66	13.20	37.40	15.50	42.20
12.00			72.0	201.0	51.0	32.0	83.0	35.0	115.0	4.31	4.91	18.70	47.90	22.00	56.90
13.50	30	80.0	227.0	57.0	35.0	92.0	38.0	133.0	5.55	6.54	26.30	59.60	29.70	75.50	
17.00			88.0	249.0	60.0	38.0	99.0	42.0	146.0	7.43	8.19	34.10	81.40	38.90	87.80
25.00			103.0	300.0	74.0	45.0	126.0	50.0	178.0	12.84	14.22	58.10	127.90	63.90	156.50
35.00			111.0	331.0	83.0	50.0	138.0	57.0	197.0	18.15	19.85	-	163.80	-	180.30
55.00			145.0	433.0	105.0	65.0	180.0	70.0	260.0	37.60	39.59	-	423.30	-	449.60
85.00			162.0	527.0	127.0	75.0	190.0	83.0	329.0	-	62.00	-	-	-	744.90

1 according to EN 13414-1, only types ASSP-EN + ASBN-EN are installed in rope slings



Shackle type ASSP-RR+ASBN-RR manufactured according to U.S. Federal Specification RR-C-271, CE-tested
 Shackle type ASSP-EN+ASBN-EN manufactured according to EN 13889, CE-tested, suitable in accordance with EN for installation in slings