



WELLWORTH

TOTAL MATERIAL HANDLING SOLUTIONS

Established in 1993, Wellworth Wire Ropes, holds specialization in manufacturing of Steel Wire Ropes & Slings. We provide customized engineering solutions for customer's needs of Material Handling.



IS 2365
IS:2266



ISO
9001:2008



...ropes that reign.

STEEL WIRE ROPES & SLINGS

- ❑ General Engineering Wire Ropes
- ❑ Elevators/Lifts Wire Ropes
- ❑ Non Rotating/Crane/Hoists Ropes
- ❑ Guy/Support Steel Wire Ropes
- ❑ Drilling/Mining/Haulage Wire Ropes
- ❑ Shipping & Aviation Wire Ropes
- ❑ Bridges & Suspension Ropes
- ❑ PVC/Nylon Coated Wire Ropes
- ❑ Stainless Steel Ropes - AISI 304, 316

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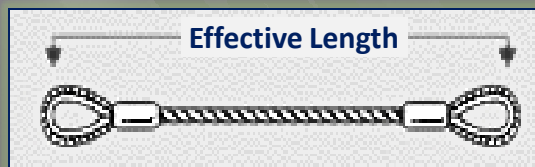


WIRE ROPE SLING

Wire rope sling is a basic material handling tool and is the most frequently used type of sling in industry today. Their popularity is enhanced by the numerous sling configurations available to support a broad range of applications and a wide variety of Terminal Fittings and Attachments.

Slings are used in Steel Plants, Heavy Engineering Industries, Sugar Mills, Lighting Industries, Winching and Material Handling Industries.

"WELLWORTH" Steel wire rope slings are made in compliance with Indian and international quality standards. These are specially spliced / looped / interwoven to have in them superior weight bearing capacity. Our wire rope slings are widely appreciated for dimensional accuracy and high strength and are manufactured in line with ISO, CE marketing, BIS and ISI quality standards.



EFFECTIVE LENGTH

It is the length between the load-bearing points of an unloaded lifting Sling. For endless slings both the effective length and the circumference are same.



EYE / LOOP SPLICING

Manual Splicing/ Hand Splicing

A sling is locked manually using its own strands interlocked to form a permanent loop. This procedure is in adherence to IS 5245 Part I.

Mechanical Splicing/ Machine Splicing

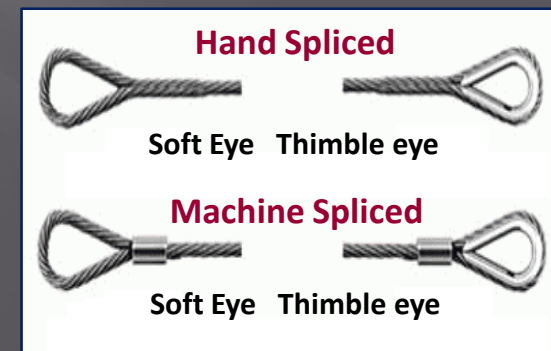
Sling is locked using an aluminum ferrule which is further subjected to load under a hydraulic press of suitable capacity exerting exactly the desired load according to the rope Diameter. This results in a permanent locked ferrule thereby forming the loop. This procedure is in adherence to IS 5245 Part II.



END FITTINGS/ATTACHMENTS

- ❖ Thimbles
- ❖ Hooks
- ❖ Turn Buckles
- ❖ Shackles
- ❖ Rings
- ❖ Connecting Links
- ❖ Swivels

RATED CAPACITY INFORMATION	
Angles in Degree	Factor
90	1.000
85	0.996
80	0.985
75	0.966
70	0.940
65	0.906
60	0.866
55	0.819
50	0.766
45	0.707
40	0.643
35	0.574
30	0.500



Wellworth Wire Ropes Pvt. Ltd. Reserves right to change or modify dimensions or composition for betterment of its products.



TYPES OF SLINGS

We offer a large number of slings to our global customers up to 5" Diameter

- ❖ General Engineering Slings.
- ❖ Sugar Mill Slings
- ❖ Grommet Slings
- ❖ Hand Spliced Slings
- ❖ Mechanical Spliced Slings
- ❖ Single-Leg Slings
- ❖ Multi-Leg Slings
- ❖ Basket Hitch Slings
- ❖ Chocker Slings
- ❖ Endless / Round Slings
- ❖ Braided Slings
- ❖ Cable Laid slings
- ❖ Decorative Slings
- ❖ Flemish Eye Slings
- ❖ Thimble Spliced Slings
- ❖ Slings with Attachments

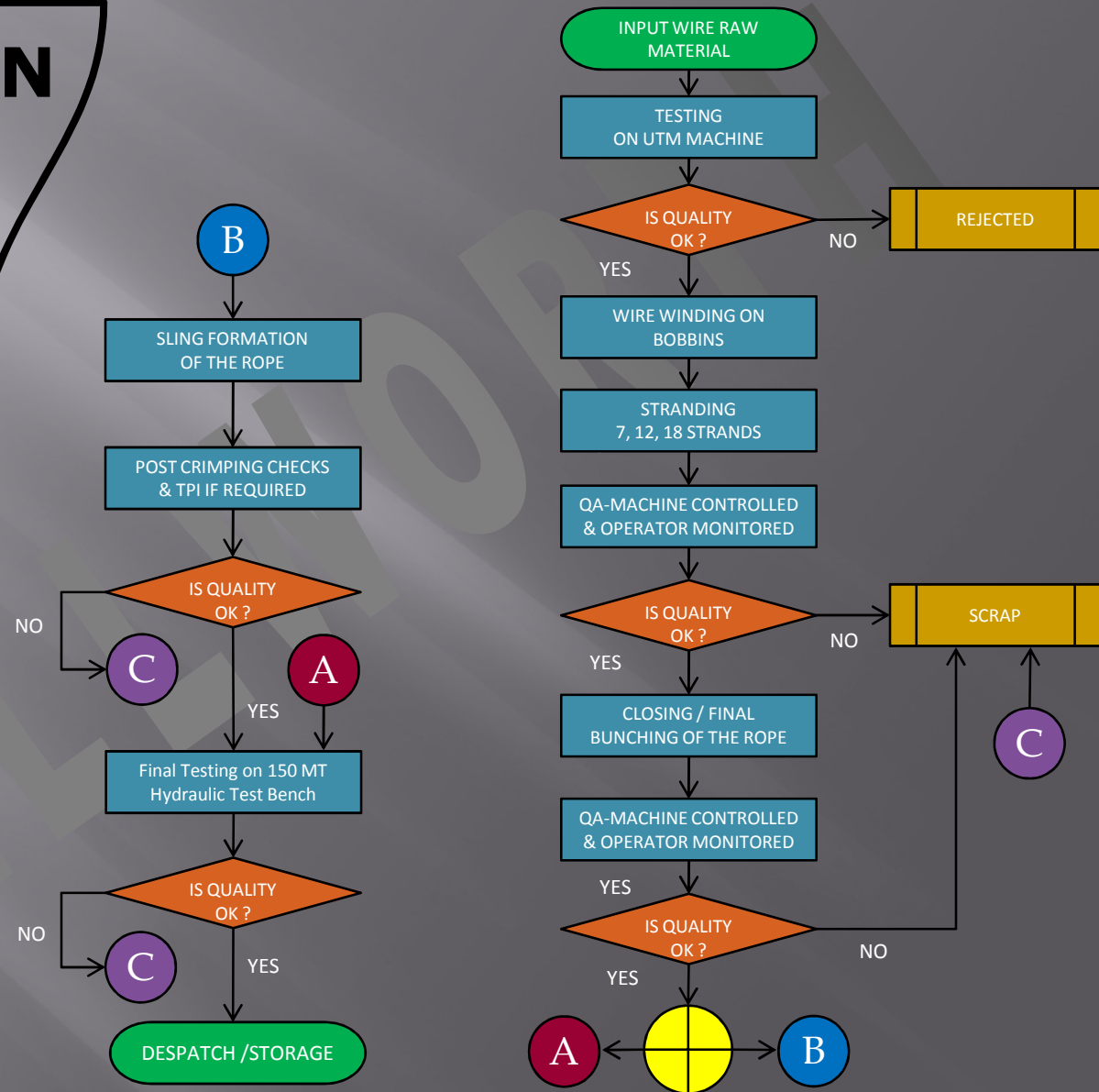
WIRE ROPE SLINGS CAPACITY CHART

Dia (MM)	CONSTRUCTION UNGALVANISED ROPE	SAFE WORKING LOAD	STANDARD LOOP SIZE EYE (INCHES)	Dia (MM)
8	6 X 19 SC	650 KG	5	8
9	6 X 19 SC	800 KG	5	9
10	6 X 19 SC	1.00 MT	5	10
11	6 X 19 SC	1.20 MT	6	11
12	6 X 19 SC	1.40 MT	6	12
14	6 X 19 SC	1.70 MT	8	14
15	6 X 19 SC	2.20 MT	8	15
16	6 X 19 SC	2.50 MT	10	16
18	6 X 19 SC	3.20 MT	11	18
19	6 X 19 SC	3.50 MT	11	19
20	6 X 19 SC	4.00 MT	12	20
22	6 X 19 SC	4.75 MT	12	22
25	6 X 19 SC	5.70 MT	12	25
28	6 X 36 / 6 X 37 SC	7.50 MT	16	28
30	6 X 36 / 6 X 37 SC	8.50 MT	16	30
32	6 X 36 / 6 X 37 SC	10.00 MT	16	32
36	6 X 36 / 6 X 37 SC	12.50 MT	20	36
38	6 X 36 / 6 X 37 SC	14.00 MT	20	38
40	6 X 36 / 6 X 37 SC	15.00 MT	24	40
44	6 X 36 / 6 X 37 SC	18.50 MT	26	44
48	6 X 36 / 6 X 37 SC	22.00 MT	28	48
52	6 X 36 / 6 X 37 SC	25.00 MT	30	52

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PRODUCTION PROCESS FLOW



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QUALITY ASSURANCE PROCEDURE

We carry out the following tests on our products to assure the quality of Wire Ropes.

INCOMING RAW MATERIAL TEST – for Accuracy of Dia, Ovality, Tensile Strength, Zinc Coating for G.I. wires & Reverse Bend Test.

PROCESS TESTING – Carried out at different stages of production for Maintaining the required Strand Dia, To check Pre-forming, Checking the Pitch Length & Constant strict supervision for breakage of wire during the stranding operation.

FINISHED ROPE TESTING – for O.D., Post-forming accuracy, Lubrication, **Breaking Load Test on 50 MT UTM Machine**, Strict supervision during the final bunching process thereby ensuring that the rope is totally free from kinks and any manufacturing defects.

FINAL TESTING - The rope is tested on **150 MT Horizontal Test Bed for Breaking Load of the rope as per IS: 2266/02 & IS: 2365/77.**

1. Quality Checks vis-à-vis P.O. for Dia, Construction, Core, Lay, Finish, Mass, Tensile Strength, Breaking Load, Lubrication etc.
2. Sample is drawn, marked, labelled and kept for record.

IS COMPLIANCE

We strictly adhere to the IS codes, which have been basically adapted from the BS codes and are internationally acceptable. In principle IS: 2266/89 is followed which is the parent IS code outlining the basic rope standards. Further, a number of IS codes are specified and followed depending on the application of the rope, mainly specified industry wise.

CERTIFICATIONS

All our Ropes & Slings are supplied with Manufacturer's Test Certificate - It consists all the important Technical Parameters e.g. Breaking Load, Proof Load, SWL, Construction, Length, & related IS Standard etc.

APPROVALS

Our ropes are already on the approved lists of Indian Railways, Rail Coach Factories, D.L.W., S.A.I.L., NPCL, Ministry of Defence- DGAQA, O.N.G.C., I.O.C.L., **DMRC**, L&T, H.C.C., Maruti Udyog etc., to name a few.

IS:2365-CM/L-2618457



IS:2266-CM/L-2621850



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