

# MARINO

CORPORATION OF INDIA

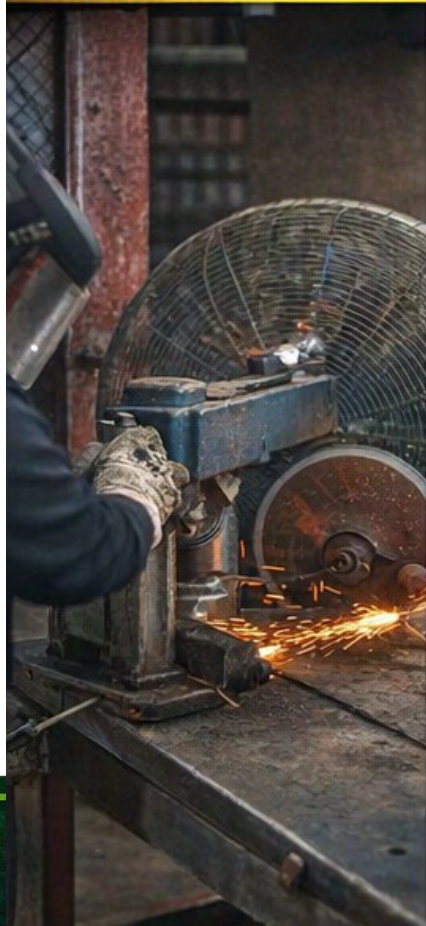
WIRE ROPE & SLING SOLUTIONS

28, Orphangunj Road, Kidderpore,  
Kolkata – 700023, West Bengal, India  
(Opp. Taj Bengal)

GST: 19ADMPR1740H1ZA

✉ Email: [marinocoindia@gmail.com](mailto:marinocoindia@gmail.com)

🌐 [www.marinoindia.co.in](http://www.marinoindia.co.in)





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Hindustan Zinc



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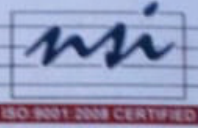
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# **NAVEN STEEL WIRE ROPES** **CERTIFICATES**

# Navin Steel Industries Pvt. Ltd.

Manufacturers of Steel Wires, Wire Ropes, & Wire Rope Sling



Unit - I, G.T. Road, Mohli, Distt. Kangra (H.P.)-176404, Ph. +91-1893-244890 Fax +91-1893-244081  
Unit - II, G.T. Road, Vih-Channi, P.O. - Toki, The - Indore, Distt. -Kangra (H.P.)  
Corres office : 4119, 1st Floor Inside, Ajmeri Gate, Delhi-110006

## CERTIFICATE OF TEST

Date : 17/05/2022  
Certificate Number : NSIPL/11/22-23/ 307 A  
Manufacture : NAVIN STEEL INDUSTRIES PVT.LTD.  
Customer Name : Marino Corporation Of India

## SPECIFICATIONS

Diameter of Rope : 15 mm  
Constriction : 6X36  
Strand Construction : 14/7 & 7/7/1  
Tensile Grade of Steel Wire : 1770 N/mm<sup>2</sup>  
Wire Finish : Un Galvanized  
Type of Core/lay Direction : Steel Core  
Length of Rope (Mtrs) : 625 Mtr. 1 Reel  
Mass/ Unit Length (Approximate) : 1.07 kg./mtr.  
Lubrication : Lubricated  
Safe Working Load : 3.284 Ton  
Standard : As per IS 2266:2002

## RESULTS OF TEST & EXAMINATIONS

Measured Dia. Of Tension : 16.1 mm  
Measured Breaking Load : 161 KN

This is to certify that the above tests have been carried out in accordance with the specifications.

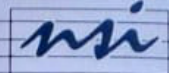
Manager (Quality Control)



# Navin Steel Industries Pvt. Ltd.

Manufacturers of Steel Wires, Wire Ropes, & Wire Rope Sling

Unit - I : G.T. Road, Mohli, Damtal, Distt - Kangra (H.P.)-176404, Ph. : +91-1893-244690, Fax : +91-1893-244081  
Unit - II : G.T. Road, Vill- Channi, P.O - Toki, The - Indore, Distt -Kangra (HP)  
Corres office : 4119, 1st Floor Inside Ajmeri Gate, Delhi-110006



ISO 9001:2008 CERTIFIED

## CERTIFICATE OF TEST

Date : 14/06/2022  
Certificate Number : NSIPL/II/22-23/ 488  
Manufacture : NAVIN STEEL INDUSTRIES PVT.LTD.  
Customer Name : Marino Corporation Of India

## SPECIFICATIONS

Diameter of Rope : 16 mm  
Constriction : 6X36  
Strand Construction : 14/7 & 7/7/1  
Tensile Grade of Steel Wire : 1770 N/mm<sup>2</sup>  
Wire Finish : Un Galvanized  
Type of Core/Lay Direction : Steel Core  
Length of Rope (Mtrs) : 610 Mtr. 2 Reel  
Mass/ Unit Length (Approximate) : 1.07 kg./mtr.  
Lubrication : Lubricated  
Safe Working Load : 3.284 Ton  
Standard : As per IS 2266:2002

## RESULTS OF TEST & EXAMINATIONS

Measured Dia. Of Tension : 16.1 mm  
Measured Breaking Load : 161 KN

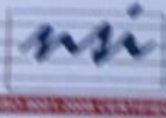
This is to certify that the above tests have been carried out in accordance with the specifications.

Manager (Quality Control)



# Navin Steel Industries Pvt. Ltd.

Manufacturers of Steel Wires, Wire Ropes, & Wire Rope Sling



Unit - I: G.T. Road, Mohi, Dera, Dist. Kangra, H.P. 176001, Ph. +91 1885 246880, Fax +91 1885 246881  
Unit - II: G.T. Road, Sahi Chandi, P.O. - Toli, The - Indore, Dist. Kangra, H.P.  
Corpus office: 47118, 3rd Floor, Insane, Agri-Gen, Gurgaon, Delhi, 110006

## CERTIFICATE OF TEST

Date : 17/05/2002  
Certificate Number : NSIPL/II/02-23/307  
Manufacture : NAVIN STEEL INDUSTRIES PVT. LTD.  
Customer Name : Marina Corporation Of India

## SPECIFICATIONS

Diameter of Rope : 12 mm  
Constriction : 6X36  
Strand Construction : 1A/7 & 7/7/1  
Tensile Grade of Steel Wire : 1770 N/mm<sup>2</sup>  
Wire Finish : Un Galvanized  
Type of Core / Lay Direction : Steel Core  
Length of Rope (Mtrs) : 610 Mtr. 2 Reel  
Mass / Unit Length (Approximate) : 1.07 kg./mtr.  
Lubrication : Lubricated  
Safe Working Load : 3.284 Ton  
Standard : As per IS 2266:2002

## RESULTS OF TEST & EXAMINATIONS

Measured Dia. of Tension : 16.1 mm  
Measured Breaking Load : 161 KN

This is to certify that the above tests have been carried out in accordance with the specifications.

Manager (Quality Control)



# **Orion WIRE ROPES**

# **CERTIFICATES**

ORION



ORION



ORION



ORION



ORION



ORION



ORION



# ORION ROPES PVT. LTD.

Sales & Admn. Off. : 6/2, Rambag, INDORE - 452 004, M.P., INDIA  
 Phone : +91-731-2531876, 2531954, Fax : +91-7312436395  
 Works : D-59-60, MIDC, Avadhan, DHULE - 424 311, M.S., INDIA  
 Phone : +91-2562-239380, 239381, Fax : +91-2562-239379  
 E-mail : info@orionropes.com, orionrope@dataone.in  
 Visit us at : www.orionropes.com



AN ISO 9001 : 2015 CERTIFIED CO. BY TUV AUSTRIA

## MILL TEST CERTIFICATE

(Certificate of Inspection & Test of Steel Wire Rope)

This is to certify that ~~Steel Wire~~ **Steel Wire** Rope particulars of which are given below  
 has been manufactured in accordance with the requirement of

INDIAN

Standard Specification No.

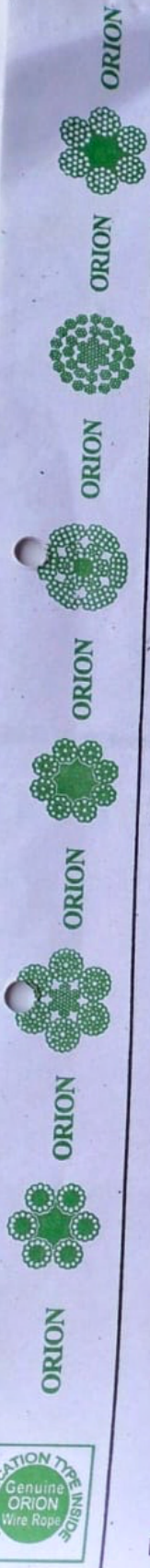
2266/2024

1. Test Certificate Number	:	231/ 2025-2026	
2. Manufacturer of Rope	{ Name	: ORION ROPES PVT. LTD.	
	{ Address	: D-59-60, M.I.D.C, Avadhan, Dhule - 424 311, M.S., India	
3. Test House Conducting Test & Examination	{ Name	: ORION ROPES PVT. LTD.	
	{ Address	: D-59-60, M.I.D.C, Avadhan, Dhule - 424 311, M.S., India	
4. Authority Conducting Test & Examination	{ Name	: KESHAV THELARI	
	{ Designation	: QA ENGINEER	
5. Fabrication Particulars -			
a. Reel Number	: 23834/1-2	h. Lay	: RHO
b. Length of the Rope	: 2 x 1000 MTR	i. Coating	: UNG
c. Diameter of Rope	: 16.00 MM	j. Tensile strength	: 1770 N/MM <sup>2</sup>
d. No. of strands	: 6	k. Lubrication	: OK
e. No. of Wires/Strand	: 26	l. Lubricant	: PETROLEUM BASED
f. Construction	: 6X36SW	m. Prefforming	: OK
g. Main Core	: CWR		
6. Test Particulars			
a. Date of test of sample & inspection	: 13/07/2025		
b. Min. Breaking Force reqd. as per Std.	: 161 KN		
c. Breaking Force of Rope (Aggregate/actual)	: 188 KN		
This Certificate is issued to	: MARINO CORPORATION OF INDIA		
Against Indent No.	: TELE		
Material supplied vide our Inv. No. & Dt.	: 231/ 23.07.2025		

Certified that the above particulars are correct & all tests as specified in  
 the specification referred above were carried out with satisfactory results  
 & that the rope is free from any manufacturing defects

Date :

for *Kpater*  
 Signature of Competent Person



# ORION ROPES PVT. LTD.

Sales & Admn. Off. : 6/2, Rambag, INDORE - 452 004, M.P., INDIA  
 Phone : +91-731-2531876, 2531954, Fax : +91-7312436395  
 Works : D-59-60, MIDC, Avadhan, DHULE - 424 311, M.S., INDIA  
 Phone : +91-2562-239380, 239381, Fax : +91-2562-239379  
 E-mail : info@orionropes.com, orionrope@dataone.in  
 Visit us at : www.orionropes.com



**AN ISO 9001 : 2015 CERTIFIED CO. BY TUV AUSTRIA**

## MILL TEST CERTIFICATE

(Certificate of Inspection & Test of Steel Wire Rope)

This is to certify that ~~Steel Wire~~ **Steel Wire** Rope particulars of which are given below has been manufactured in accordance with the requirement of INDIAN Standard Specification No. 2266/2024

1. Test Certificate Number	2317/2025-2026		
2. Manufacturer of Rope	Name	ORION ROPES PVT. LTD.	
	Address	D-59-60, M.I.D.C, Avadhan, Dhule - 424 311, M.S., India	
3. Test House Conducting Test & Examination	Name	ORION ROPES PVT. LTD.	
	Address	D-59-60, M.I.D.C, Avadhan, Dhule - 424 311, M.S., India	
4. Authority Conducting Test & Examination	Name	KESHAV THELARI	
	Designation	QA ENGINEER	
5. Fabrication Particulars -			
a. Reel Number	23820/3	h. Lay	RHO
b. Length of the Rope	1 x 1020 MTR	i. Coating	UNG
c. Diameter of Rope	13.00 MM	j. Tensile strength	1770 N/MM2
d. No. of strands	18	k. Lubrication	OK
e. No. of Wires/Strand	7	l. Lubricant	PETROLEUM BASED
f. Construction	18x7	m. Preforming	OK
g. Main Core	CWS		
6. Test Particulars			
a. Date of test of sample & inspection	09/07/2025		
b. Min. Breaking Force reqd. as per Std.	98 KN		
c. Breaking Force of Rope (Aggregate/actual)	112 KN		
This Certificate is issued to	MARINO CORPORATION OF INDIA		
Against Indent No.	TELE		
Material supplied vide our Inv. No. & Dt.	2317/27.07.2025		

**Certified that the above particulars are correct & all tests as specified in the specification referred above were carried out with satisfactory results & that the rope is free from any manufacturing defects**

Date :

*for Keshav*  
Signature of Competent Person





# ORION ROPES PVT. LTD.

Sales & Admn. Off. : 6/2, Rambag, INDORE - 452 004, M.P., INDIA  
Phone : +91-731-2531878, 2531954, Fax : +91-7312436395  
Works : D-59-60, MIDC, Avadhan, DHULE - 424 311, M.S., INDIA  
Phone : +91-2582-239380, 239381, Fax : +91-2582-239379  
E-mail : info@orionropes.com, orionrope@dataone.in  
Visit us at : www.orionropes.com



AN ISO 9001 : 2015 CERTIFIED CO. BY TUV AUSTRIA

## MILL TEST CERTIFICATE

(Certificate of Inspection & Test of Steel Wire Rope)

This is to certify that Steel Wire Rope particulars of which are given below has been manufactured in accordance with the requirement of

Standard Specification No. \_\_\_\_\_

1. Test Certificate Number	231/ 2025-2026		
2. Manufacturer of Rope	Name	ORION ROPES PVT. LTD.	
	Address	D-59-60, M.I.D.C, Avadhan, Dhule - 424 311, M.S., India	
3. Test House Conducting Test & Examination	Name	ORION ROPES PVT. LTD.	
	Address	D-59-60, M.I.D.C, Avadhan, Dhule - 424 311, M.S., India	
4. Authority Conducting Test & Examination	Name	QA ENGINEER	
	Designation	_____	
5. Fabrication Particulars -	23823/2	RHO	
a. Reel Number	1 x 500 MTR	h. Lay	UNG
b. Length of the Rope	14.00 MM	i. Coating	BASIC
c. Diameter of Rope	6	j. Tensile strength	1770 N/MM2
d. No. of strands	36	k. Lubrication	OK
e. No. of Wires/Strand	6X36SW	l. Lubricant	PETROLEUM BASED
f. Construction	CWR	m. Preforming	OK
g. Main Core			
6. Test Particulars	11/07/2025		
a. Date of test of sample & inspection	124 KN		
b. Min. Breaking Force reqd. as per Std.	145 KN		
c. Breaking Force of Rope (Aggregate/actual)	MARINO CORPORATION OF INDIA		
This Certificate is issued to	TELE		
Against Indent No.	231/ 23.07.2025		
Material supplied vide our Inv. No. & Dt.			

Certified that the above particulars are correct & all tests as specified in the specification referred above were carried out with satisfactory results & that the rope is free from any manufacturing defects

Date :

Signature of Competent Person

*for Keatu*



ORION



ORION



ORION



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# ORION ROPES PVT. LTD.

Sales & Admn. Off. : 8/2, Rambag, INDORE - 452 004, M.P., INDIA  
 Phone : +91-731-2531876, 2531954, Fax : +91-7312436395  
 Works : D-59-60, MIDC, Avadhan, DHULE - 424 311, M.S., INDIA  
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 E-mail : info@orionropes.com, orionrope@dataone.in  
 Visit us at : www.orionropes.com



AN ISO 9001 : 2015 CERTIFIED CO. BY TUV AUSTRIA

## MILL TEST CERTIFICATE

(Certificate of Inspection & Test of Steel Wire Rope)

This is to certify that **Steel Wire Rope** particulars of which are given below  
 has been manufactured in accordance with the requirement of

INDIAN Standard Specification No. 2266/2024

1. Test Certificate Number	:	231/ 2025-2026	
2. Manufacturer of Rope	{ Name	: ORION ROPES PVT. LTD.	
	{ Address	: D-59-60, M.I.D.C, Avadhan, Dhule - 424 311, M.S., India	
3. Test House Conducting Test & Examination	{ Name	: ORION ROPES PVT. LTD.	
	{ Address	: D-59-60, M.I.D.C, Avadhan, Dhule - 424 311, M.S., India	
4. Authority Conducting Test & Examination	{ Name	: KESHAV THELARI	
	{ Designation	: QA ENGINEER	
5. Fabrication Particulars -			
a. Reel Number	: 23835/6	h. Lay	: RHO
b. Length of the Rope	: 1 x 1000 MTR	i. Coating	: UNG
c. Diameter of Rope	: 24.00 MM	j. Tensile strength	: 1770 N/MM2
d. No. of strands	: 6	k. Lubrication	: OK
e. No. of Wires/Strand	: 36	l. Lubricant	: PETROLEUM BASED
f. Construction	: 6X36SW	m. Preforming	: OK
g. Main Core	: CWR		
6. Test Particulars			
a. Date of test of sample & inspection	: 14/07/2025		
b. Min. Breaking Force reqd. as per Std.	: 363 KN		
c. Breaking Force of Rope (Aggregate/actual)	: 434 KN		
This Certificate is issued to	: MARINO CORPORATION OF INDIA		
Against Indent No.	: TELE		
Material supplied vide our Inv. No. & Dt.	: 231/ 23.07.2025		

Certified that the above particulars are correct & all tests as specified in  
 the specification referred above were carried out with satisfactory results  
 & that the rope is free from any manufacturing defects

Date :

Signature of Competent Person

*For Kpatt-1*

**USHA MARTIN WIRE ROPES**  
**CERTIFICATES:**

TEST REPORT No: UR27486040

Form No UM L4 QA-ET1A Issue 02 Rev 02

Customer : INDIAN STORES SUPPLYING CO PVT LTD, KOLKATA 700001  
Customer Order Ref : ISSC20-21 (Order on account Skipper)  
Sales Order Number : 3130026200112  
Reel Number : 837486040  
Date of Sample Receipt : 29-03-2021  
Manufacturer : USHA MARTIN LIMITED, INDIA

CLR-TC02H2021030800000000 Date of Issue : 29-03-2021

Date: 12-02-2021

Date: 25-02-2021

Date of Test : 29-03-2021

**SPECIFICATION**

Applied Standard : IS-2286:2013 (Marked)  
Item : Steel Wire Rope  
Nominal Diameter of rope : 12 mm  
Construction : 6X19F  
Strand Construction : 12-6F-6-1  
Grade : 1770  
Wire Finish : Ungalvd  
Type of Core/Lay Direction : IWRC / RHD (S2)  
Length of Rope : 1000 m  
Mass/Unit Length (Approx.) : 0.588 Kg/Mtr  
Lubrication : A2 / PETROLEUM LUBE  
Minimum Breaking Force : 83.0 kN  
Prestretching : N.A.

**RESULTS OF TEST & EXAMINATION**

Diameter (Of-tension)-IS 6594 : 12.175 mm  
Lay (Of-tension)-IS 6594 : 78.000 mm  
Breaking Force-IS 1828 : 108.480 kN

This is to certify that the above tests have been carried out in accordance with the Specification and the results relate to the item tested.

This test report shall not be reproduced except in full without approval of the laboratory.  
Note:

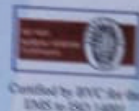
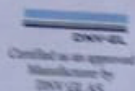
- Scope of NABL: The following tests are not covered under NABL Scope of Accreditation.
- a) Any test of wire diameter < 1.0 mm and > 5.0 mm
  - b) Knot test result of wires
  - c) Chemical analysis of wire rod

Authorized Signatory  
S. Srinivasan - QA  
Usha Martin Limited  
Ranchi, Jharkhand

XXXXXXXXXX



Page 1 of 1



TEST REPORT No: H/2014860042

Form No USR-L4-QA-41A Issue 02 Rev 02

Customer : INDIAN STORES SUPPLYING CO PVT LTD, KOLKATA 700001  
Customer Order Ref : ISSC/00-21/Order-on-account Skipper  
Sales Order Number : 3130026200112  
Roll Number : 6574860042  
Date of Sample Receipt : 29-03-2021  
Manufacturer : USHA MARTIN LIMITED, INDIA  
Date of Issue : 29-03-2021  
Date : 10-02-2021  
Date : 25-02-2021  
Date of Test : 29-03-2021

**SPECIFICATION**

Applied Standard : IS-2086/2013 (Marked)  
Item : Steel Wire Rope  
Nominal Diameter of rope : 12 mm  
Construction : 6X19F  
Strand Construction : 10-F-6-1  
Grade : 1770  
Wire Finish : Ungalvd  
Type of Core/Lay Direction : IWRC / RHO (S2)  
Length of Rope : 1000 m  
Mass Unit Length (Approx.) : 0.588 Kg/Mtr  
Lubrication : A2 / PETROLEUM LUBE  
Minimum Breaking Force : 95.0 kN  
Prestretching : N.A.

**RESULTS OF TEST & EXAMINATION**

Diameter (Of-tension)-IS 6894 : 12.175 mm  
Lay (Of-tension)-IS 6894 : 78.000 mm  
Breaking Force -IS 1828 : 108.460 kN

This is to certify that the above tests have been carried out in accordance with the Specification and the results relate to the item tested.

This test report shall not be reproduced except in full without approval of the laboratory.  
Note:

- Scope of NABL: The following tests are not covered under NABL Scope of Accreditation.
- Any test of wire diameter < 1.0 mm and > 5.0 mm
  - Knot test result of wires
  - Chemical analysis of wire rod

Authorized Signatory  
Sd/-  
Sr. Manager - QA  
Usha Martin Limited  
Ranchi, Jharkhand

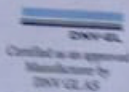
XXXXXXXX



Page 1 of 1



Certified as an approved Manufacturer by Lloyd's Register



Certified as an approved Manufacturer by DNV GL AS



Certified as an approved Manufacturer by American Bureau of Shipping



Certified by BVC for the QMS to ISO 9001



Certified by BVC for the EMS to ISO 14001

TEST REPORT No: H C726800003

QCD-F-20/06 SEPT.24

Date of issue : 03-06-2025

Customer : INDIAN STORES SUPPLYING CO PVT LTD, KOLKATA 700001

Customer Order Ref : ISSC/2025-26/131

Sales Order Number : 3130049588/360

Reel Number : C726800003

Date of Sample Receipt : 03-06-2025

Manufacturer : USHA MARTIN LIMITED(NORTH), INDIA

Date: 19-05-2025

Date: 21-05-2025

Date of Test : 03-06-2025



**SPECIFICATION**

Applied Standard Item : IS-2266/2024 (Marked)

Nominal Diameter of rope : Steel Wire Rope

Construction : 28.00 mm

Strand Construction : 6X36SW , Preformed

Grade : 14-7+7-7-1

Wire Finish : 1960

Type of Core/Lay Direction : Ungalvd

Length of Rope : IWRC / RHO (sZ)

Mass/Unit Length (Apprx.) : 500 m

Lubrication : 3.259 Kg/Mtr

Minimum Breaking Force : A2 ( P2200 ) / PETROLEUM LUBE

Prestretching : 548.000 kN

: N.A.



**RESULTS OF TEST & EXAMINATION**

(Test & Method/Specification).

Diameter (Off-tension) - IS 6594 : 28.620 mm

Lay (Off-tension) - IS 6594 : 179.300 mm

Breaking Force - IS 1608-1 : 579.360 kN



The sample is provided by the production department to laboratory, Usha Martin Limited (Wire & Wire Ropes Division -North), Hoshiarpur.

This is to certify that the above tests have been carried out in accordance with the Specification and the results relate to the item tested.

This test report shall not be reproduced except in full without approval of the laboratory.

*Harpreet Singh*  
Authorized Signatory

**Harpreet Singh**  
Deputy Manager-QA  
Usha Martin Limited  
North, Hoshiarpur

USHA MARTIN LIMITED  
CIN : L31400WB1986PLC091621



This Product has been manufactured under a management system certified by TUVNORD against ISO 9001, ISO 14001 & ISO 45001.



Certified as an approved manufacturer by Lloyd's Register Marine and Offshore India LLP for MGI / MAG Wire



Government of India  
Ministry of Fisheries  
Research Design & Extension Organisation  
New Delhi, India (2020)  
Certified as an approved manufacturer by RDSO for MGI / MAG Wire



Certified as an approved manufacturer by Indian Register of Ship Manufacturers for MGI/MAG Wire

Regd. Office : 2A, Shakespeare Sarani, Kolkata - 700 071, India

Works : Wire & Wire Ropes  
Division-North, Dharamshala Road, Chohal, 146024, Hoshiarpur, Punjab, India



(00 91 1882) 353200  
(00 91 1882) 353201



contact@ushamartin.co  
www.ushamartin.com

TEST REPORT No: H B225870013

Form No.UM-L4-QA-61A Issue:02 Rev:02

Customer : INDIAN STORES SUPPLYING CO PVT LTD, KOLKATA 700001  
 ULR - TC501620010040097P Date of Issue : 10-11-2020  
 Customer Order Ref : ISSC Email Date: 28-08-2020  
 Sales Order Number : 3130023621/30 Date: 16-09-2020  
 Reel Number : B225870013  
 Date of Sample Receipt : 10-11-2020  
 Manufacturer : USHA MARTIN LIMITED, INDIA Date of Test : 10-11-2020

**SPECIFICATION**

Applied Standard : IS-2266/2019 (Marked)  
 Item : Steel Wire Rope  
 Nominal Diameter of rope : 20 mm  
 Construction : 6X36 , Preformed  
 Strand Construction : 14-7+7-7-1  
 Grade : 1770  
 Wire Finish : Ungalvd  
 Type of Core/Lay Direction : IWRC / RHO (sZ)  
 Length of Rope : 500 m  
 Mass/Unit Length (Apprx.) : 1.654 Kg/Mtr  
 Lubrication : A2 / PETROLEUM LUBE  
 Minimum Breaking Force : 252.0 kN  
 Prestretching : N.A.

**RESULTS OF TEST & EXAMINATION**

Diameter (Off-tension)-IS 6594 : 20.310 mm  
 Lay (Off-tension)-IS 6594 : 131.000 mm  
 Breaking Force -IS 1608 : 305.700 kN

This is to certify that the above tests have been carried out in accordance with the Specification and the results relate to the item tested.

This test report shall not be reproduced except in full without approval of the laboratory.  
 Note:

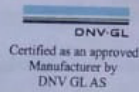
- Scope of NABL: The following tests are not covered under NABL Scope of Accreditation.
- a) Any test of wire diameter <1.0 mm and >5.0 mm
  - b) Knot test result of wires
  - c) Chemical analysis of wire rod

Authorized Signatory  
**Sandeep Jaiswal**  
 Sr. Manager (QA)  
 Usha Martin Limited  
 Ranchi, Jharkhand

XXXXXXXXXX



Page 1 of 1





TEST REPORT No: H C516369004

QCD-F-20/06 SEPT.'24

Date of Issue : 15-11-2024

Customer : INDIAN STORES SUPPLYING CO PVT LTD, KOLKATA 700001

Customer Order Ref : ISSC/2024-25/C-LIST

Sales Order Number : 8803000088/140

Reel Number : C516369004

Date of Sample Receipt : 15-11-2024

Manufacturer : USHA MARTIN LIMITED(NORTH), INDIA

Date: 26-12-2024

Date: 28-12-2024

Date of Test : 15-11-2024

IS:2266



CML-8167667

### SPECIFICATION

Applied Standard : IS-2266/2024 (Marked)

Item : Steel Wire Rope

Nominal Diameter of rope : 26 mm

Construction : 6X36 , Preformed

Strand Construction : 14-7+7-7-1

Grade : 1960

Wire Finish : Ungalvd

Type of Core/Lay Direction : IWRC / RHO (sZ)

Length of Rope : 200 m

Mass/Unit Length (Apprx.) : 2.805 Kg/Mtr

Lubrication : A2 ( P2200 ) / PETROLEUM LUBE

Minimum Breaking Force : 472.000 kN

Prestretching : N.A.



### RESULTS OF TEST & EXAMINATION

(Test & Method/Specification)

Diameter (Off-tension) - IS 6594 : 26.570 mm

Lay (Off-tension) - IS 6594 : 172.900 mm

Breaking Force - IS 1608-1 : 499.480 kN



The sample is provided by the production department to laboratory,Usha Martin Limited (Wire & Wire Ropes Division -North), Hoshiarpur.

This is to certify that the above tests have been carried out in accordance with the Specification and the results relate to the item tested.

This test report shall not be reproduced except in full without approval of the laboratory.

Authorized Signatory

**Harpreet Singh**  
Assistant Manager-QA  
Usha Martin Limited  
North, Hoshiarpur

USHA MARTIN LIMITED  
CIN : L31400WB1986PLC091621



This Product has been manufactured under a management system certified by TUVNORD against ISO 9001, ISO 14001 & ISO 45001.



Certified as an approved manufacturer by Lloyd's Register Marine and Offshore India LLP for MIG / MAG Wire



Government of India  
Ministry of Railways  
Research Design & Standards Organisation  
South West Larkrow (2016)  
Certified as an approved manufacturer by RDSO for MIG / MAG Wire



Certified as an approved manufacturer by Indian Register of Shipping for MIG/MAG Wire

Regd. Office : 2A, Shakespeare Sarani, Kolkata - 700 071, India

Works : Wire & Wire Ropes  
Division-North, Dharamshala Road,  
Chohal, 146024, Hoshiarpur,  
Punjab, India



(00 91 1882) 353200  
(00 91 1882) 353201



contact@ushamartin.co.in  
www.ushamartin.com

TEST REPORT No: H B155380001

Form No.UM-L4-QA-61A Issue:02 Rev:02

Customer : INDIAN STORES SUPPLYING CO PVT LTD, KOLKATA 700001  
 Customer Order Ref : ISSC EMAIL  
 Sales Order Number : 3130022340/290  
 Reel Number : B155380001  
 Date of Sample Receipt : 01-07-2020  
 Manufacturer : USHA MARTIN LIMITED, INDIA

Date: 04-05-2020  
 Date: 23-06-2020

Date of Test : 01-07-2020

**SPECIFICATION**

Applied Standard : IS-2266/2019 (Marked)  
 Item : Steel Wire Rope  
 Nominal Diameter of rope : 22 mm  
 Construction : 6X36 , Preformed  
 Strand Construction : 14-7+7-1  
 Grade : 1770  
 Wire Finish : Ungalvd  
 Type of Core/Lay Direction : IWRC / RHO (sZ)  
 Length of Rope : 500 m  
 Mass/Unit Length (Apprx) : 2.001 Kg/Mtr  
 Lubrication : A2 / PETROLEUM LUBE  
 Minimum Breaking Force : 305.0 kN  
 Prestretching : N.A.

**RESULTS OF TEST & EXAMINATION**

Diameter (Off-tension)-IS 6594 : 22.360 mm  
 Lay (Off-tension)-IS 6594 : 141.000 mm  
 Breaking Force -IS 1608 : 345.670 kN

This is to certify that the above tests have been carried out in accordance with the Specification and the results relate to the item tested.

This test report shall not be reproduced except in full without approval of the laboratory.  
 Note:

Scope of NABL: The following tests are not covered under NABL Scope of Accreditation.

- a) Any test of wire diameter < 1.0 mm and > 5.0 mm
- b) Knot test result of wires
- c) Chemical analysis of wire rod

Authorized Signatory

**Rakesh Kumar**  
 Manager (L-4)  
 Usha Martin Limited  
 Ranchi, Jharkhand

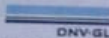
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Page 1 of 1



Certified as an approved  
 Manufacturer by  
 Lloyd's Register



Certified as an approved  
 Manufacturer by  
 DNV GL AS



TYPE APPROVAL PROGRAM  
 Certified as an approved  
 Manufacturer by  
 American Bureau of Shipping



Certified by BVC for the  
 QMS to ISO 9001



Certified by BVC for the  
 EMS to ISO 14001



TEST REPORT No.: H C930590002

QCD-F-20/06 SEPT '24

Date of Issue : 29-12-2025

Customer : INDIAN STORES SUPPLYING CO PVT LTD, KOLKATA 700001

Customer Order Ref : ISSC/2025-26/221

Date: 26-11-2025

Sales Order Number : 3130053356/330

Date: 26-11-2025

Reel Number : C930590002

Date of Sample Receipt : 29-12-2025

Date of Test : 29-12-2025

Manufacturer : USHA MARTIN LIMITED(NORTH), INDIA



### SPECIFICATION

Applied Standard : IS-2266/2024 (Marked)

Item : Steel Wire Rope

Nominal Diameter of rope : 19.00 mm

Construction : 6X36 Preformed

Strand Construction : 14-7+7-7-1

Grade : 1960

Wire Finish : Ungalvd

Type of Core/Lay Direction : IWRC / RHO (sZ)

Length of Rope : 305 m

Mass/Unit Length (Apprx.) : 1.492 Kg/Mtr

Lubrication : A2 ( P2200 ) / PETROLEUM LUBE

Minimum Breaking Force : 252.000 kN

Prestretching : N.A.



### RESULTS OF TEST & EXAMINATION

(Test & Method/Specification),

Diameter (Off-tension) - IS 6594 : 19.410 mm

Lay (Off-tension) - IS 6594 : 122.900 mm

Breaking Force - IS 1608-1 : 278.620 kN

The sample is provided by the production department to laboratory, Usha Martin Limited (Wire & Wire Ropes Division -North), Hoshiarpur.

This is to certify that the above tests have been carried out in accordance with the Specification and the results relate to the item tested.



Authorized Signatory

Harpreet Singh  
Deputy Manager-QA  
Usha Martin Limited  
North, Hoshiarpur

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USHA MARTIN LIMITED

CIN : L31400WB1986PLC091621

Regd. Office : 2A, Shakespeare Sarani, Kolkata - 700 071, India



This Product has been manufactured under a management system certified by TUVNORD against ISO 9001, ISO 14001 & ISO 45001.



Certified as an approved manufacturer by Lloyd's Register Marine and Offshore India LLP for MIG / MAG Wire



(00 91 1882) 353200  
(00 91 1882) 353201



Certified as an approved manufacturer by DGSI for MIG / MAG Wire



Certified as an approved manufacturer by Indian Register of Shipping for MIG/MAG Wire



contact@ushamartin.co.in  
www.ushamartin.com

TESTING CERTIFICATES OLD:

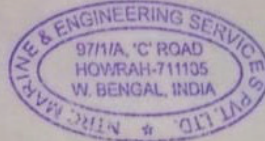
Form No. 8

**PART I - TEST AND THOROUGH EXAMINATION OF LIFTING MACHINES, CHAINS, ROPES OR LIFTING TRACKLE (Except fibre ropes or rope slings) BEFORE BEING TAKEN INTO USE IN ANY FACTORY FOR THE FIRST TIME IN THAT FACTORY**  
 [Prescribed under Rule 55 of the West Bengal Factories Rules,1958]

Name of Occupier: M/S. MARINO CORPOTATION OF INDIA. Address of Factory: 28 ORPHANGUNJ ROAD, KOLKATA-23, WEST BENGAL.

(1) Distinguishing number or mark and description sufficient to identify the machine, chain, rope or lifting tackle.	Certificate of Test and through Examination		
	(2) Date of certificate	(3) Number of certificate	(4) Name and address of person who issued certificate
1. HAND SPLICED STEEL WIRE ROPE SLING WITH LOOP AT BOTH END. SIZE: 14 MM. DIA X 14 FT. LONG. CAPACITY: 1.5(ONE AND HALF) TON. I.D.NO.: NTRC11-20,SWL 1.5T,18.12.2014. QUANTITY : 10 (TEN). PROOF LOAD APPLIED: 3 TON RESULT: SATISFACTORY.	18.12.2014.	NTRC/WB/0542/2014-15. DATE : 18.12.2014.	Mr. Tapas Kumar Das. 97/1/A, 'C' Road, Howrah - 711 105. Competency order no.- 295,296,297 DT.-27.02.2014. Valid upto-31.12.2014.
2. HAND SPLICED STEEL WIRE ROPE SLING WITH LOOP AT BOTH END. SIZE: 20 MM. DIA X 16 FT. LONG. CAPACITY: 4(FOUR) TON. I.D.NO.: NTRC21-30,SWL 3 T,18.12.2014. QUANTITY : 10 (TEN). PROOF LOAD APPLIED: 6 TON RESULT: SATISFACTORY. *****	*****	VALIED UPTO:17.12.2015. *****	*****

M/s.NTRC Marine & Engineering Services pvt.ltd.  
 97/1/A/"C" Road , Belgachia, Howrah-711105  
 Ph no:033-26516323/033-32918537  
 e-mail : ntrc1@hotmail.com.



*Tapas Kumar Das*  
 Signature of Competent Person  
 Chartered Engineer  
 Competent Person under  
 the Factories Act, 1948

# **ACTUAL PRODUCT PHOTOS**









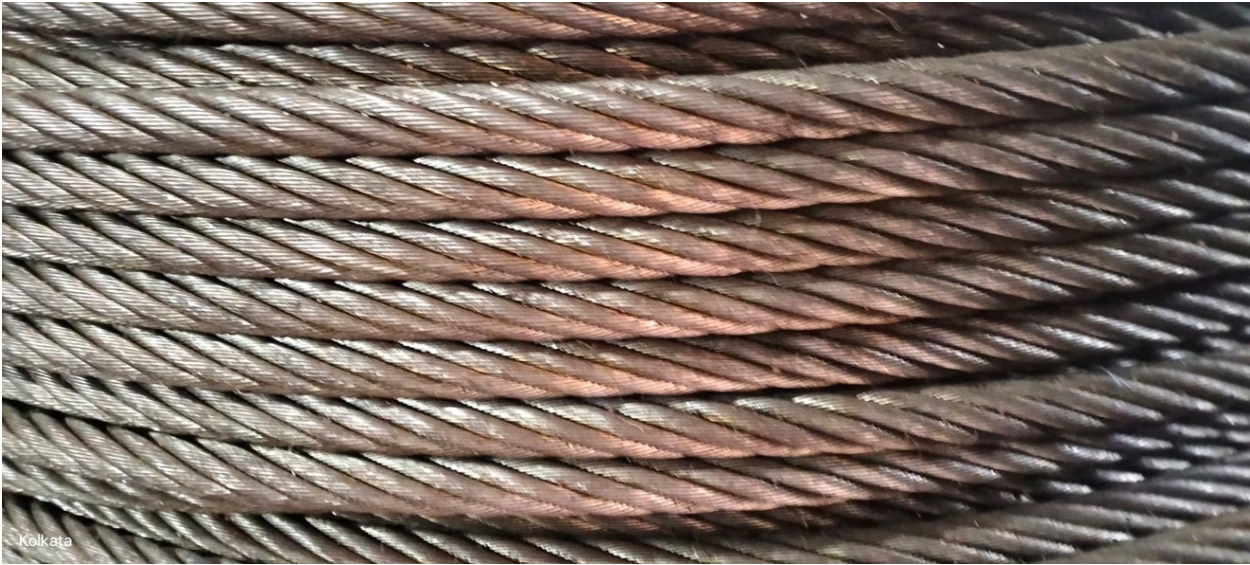












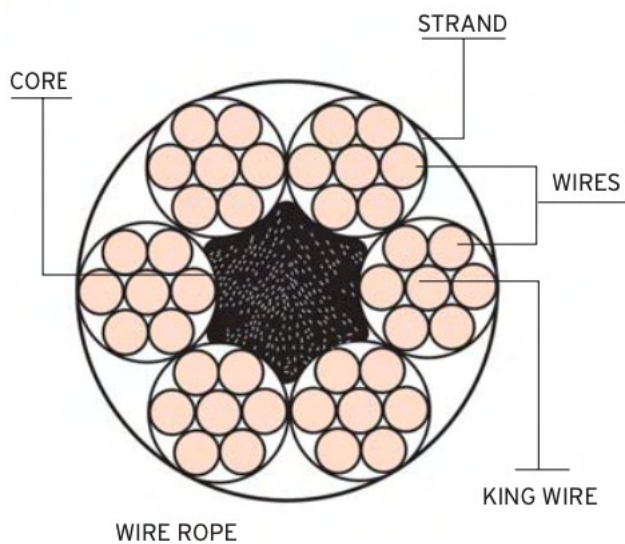
Kolkata



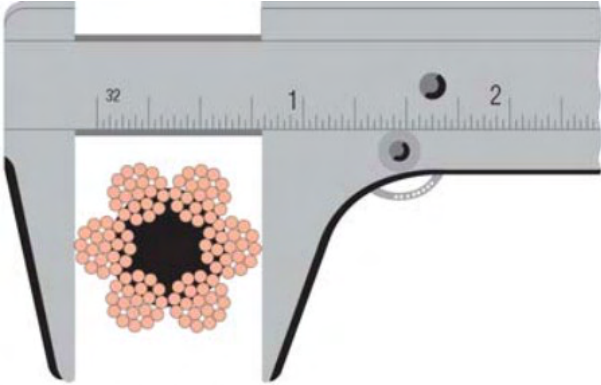




## Wire Rope Components



# Rope Measurement



CORRECT

Measure the circle just touching the extreme outer limits (crown) of the strands.



RIGHT HAND LANGS LAY (RHLL/RHL/zZ)



LEFT HAND LANGS LAY (LHLL/LHL/ss)



ALTERNATE LAY (COMBINATION OF LANGS & REGULAR)



SPECIAL ALTERNATE LAY (2 LANGS 1 REGULAR)



Wire rope slings are the most widely produced sling type at Marino Wire Rope & Sling. They are available in a broad range of configurations, from single-leg slings to complex multi-part braided assemblies. End terminations vary from standard loop eyes to specialized fittings designed for specific applications.

Marino Wire Rope & Sling manufactures wire rope slings and assemblies in diameters ranging from 1/32" up to 4-1/2". Slings are fabricated using different wire rope types and constructions, including bright wire rope with external lubrication, galvanized wire rope, and stainless steel. Each wire rope material offers distinct performance benefits depending on the intended application.

All our wire ropes are manufactured in accordance with **IS 2266 : 2024 (Steel Wire Ropes for General Engineering Purpose)**. Refer to standard for configuration, tensile loading and breaking loads.





The listed capacities of wire rope slings/assemblies in this catalog are based on the industrial standard of a 5 to 1 design factor. This is the method used to determine the working load limit (WLL) of a sling: minimum breaking strength of the wire rope (MBL) multiplied by the efficiency of the splice or end fittings divided by the design factor 5.

The factors listed below affect the capacity of a wire rope sling:

- Efficiency of the end termination or eye splice
- Type of hitch being used when lifting the load
- Diameter of the item being lifted where the sling is attached
- Diameter of the hook or shackle where the sling attaches to the lifting device

### Efficiency of the end termination or eye splice

#### Hand spliced eyes:

Rope Diameter	Efficiency
1/4"	90%
5/16"	89%
3/8"	88%
7/16"	87%
1/2"	86%
9/16"	85%
5/8"	84%
3/4"	82%
7/8" to 2-1/2"	80%

#### Mechanical spliced eyes:

1/4" to 1"	95%
1-1/8" to 2"	92.5%
2-1/4" to 4-1/2"	90%

1/4" to 4-1/2"	100%
----------------	------





## Capacities & Hitches

### Type of hitch being used when lifting the load:



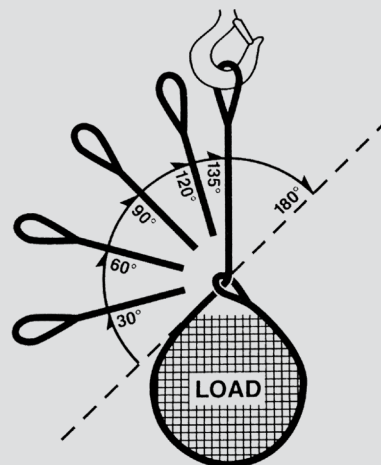
#### Vertical Pull:

A vertical pull is where a sling is hitched between the lifting device and load in a straight line.

#### Choker Hitch:

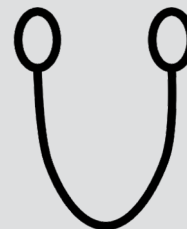
A choker hitch is where the eye on one end of the sling is passed through the eye on the other end of the sling and the sling is choked around the load being picked up. The chart below shows the capacity reduction of a sling used in a choker hitch.

Angle of Choke Degree	Rated Capacity %
Over 120	100
90-120	87
60-89	74
30-59	62
0-29	49



#### Vertical Basket Hitch:

A vertical basket hitch is where the body of the sling supports the load being lifted and the two ends of the sling are attached to the lifting device.





## Sling Capacities When Rigged at Various Angles

### EXAMPLES

#### Load Factor Guidelines

Leg Angle	Load Factor
90°	1.000
85°	1.003
80°	1.015
75°	1.035
70°	1.064
65°	1.103
60°	1.154
55°	1.220
50°	1.305
45°	1.414
40°	1.555
35°	1.743
30°	2.000

**WARNING:** Slings shall not be used with horizontal angles less than 30°.



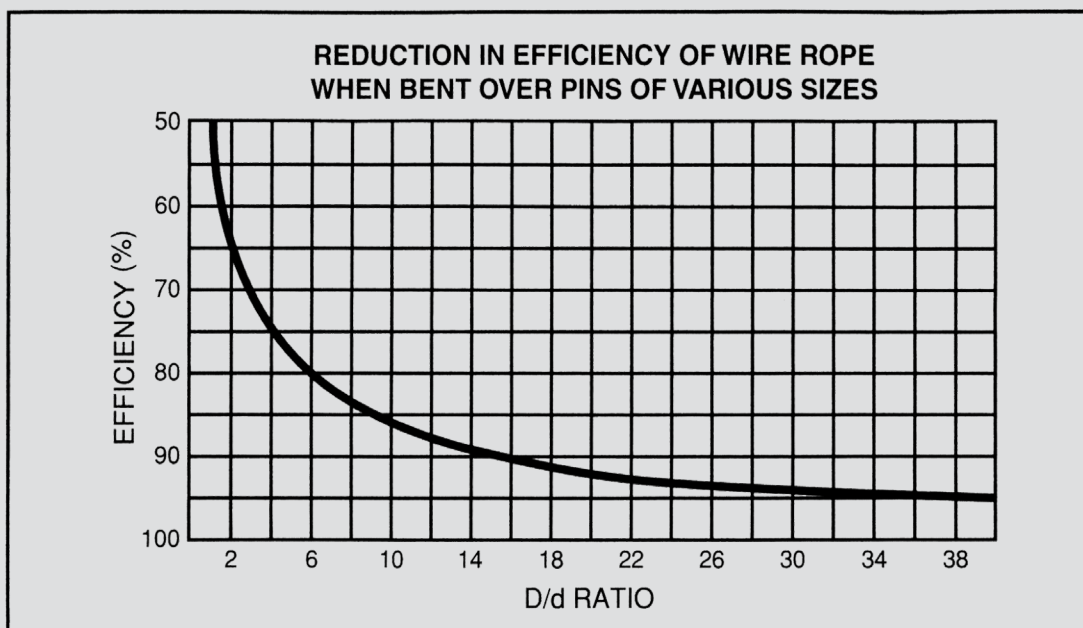


When a sling is rigged as a basket, the diameter of the bend where the sling contacts the load can affect the sling's lifting capacity. How much the lifting capacity is affected can be calculated by dividing the diameter of the bend where the rope contacts the load (represented by "D") by the diameter of the rope or the component rope diameter in a multi-part sling (represented by "d").

For example, if the diameter of the bend ("D") is 10 and the component rope diameter ("d") is 1/2, the D/d ratio is  $10 \div 1/2$  or 20. When using D/d ratios that are smaller than those shown in the table below, the rated capacity of the sling must be decreased.

**Standard D/d ratios are applied to determine efficiency of various sling constructions**

Mechanically spliced, single-part slings	25 times rope diameter
Hand-spliced, single-part slings	15 times rope diameter
Braided multi-part slings of 3 parts	10 times component rope diameter
Braided multi-part slings of 6 parts	25 times component rope diameter
Braided multi-part slings of 8 parts	25 times component rope diameter
Braided multi-part slings of 9 parts	20 times component rope diameter
Hand-tucked grommets and mechanically joined grommets	5 times sling body diameter





Wire Rope is lubricated during manufacturing so that the strands - as well as the individual wires in the strands - may move and adjust as the rope moves and bends. No wire rope can be lubricated sufficiently during manufacturing to last its entire life. That's why it's important to lubricate periodically through the life of the rope.

The surface of some ropes may be covered with dirt, rock dust or other material during their operation. This can prevent field-applied lubricants from properly penetrating into the rope, so it's a good practice to clean these ropes before you lubricate them.

The lubricant you apply should be light-bodied enough to penetrate to the rope's core. You can normally apply lubricant by using one of three methods:

- Drip it on the rope
- Spray it on the rope
- Brush it onto the rope

Your rope's service life will be directly proportional to the effectiveness of the method you use and the amount of lubricant that reaches the ropes working parts.

A proper lubricant must reduce friction, protect against corrosion and adhere to every wire.

It should also be pliable and not crack or separate when cold - yet not drip when warm. Never apply heavy grease to the rope because it can trap excessive grit which can damage the rope. Nor should you apply used "engine oil" because it contains materials that can damage the wire rope

## Wire Rope Sling Storage and Handling

Wire Rope slings should be kept in an area where exposure to water, extreme heat or corrosive fumes, liquids and sprays are non-existent.

Slings should also be kept out of the way where they may get ran over by vehicles or kinked.

Slings should never be left beneath loads or laying where they could be possibly damaged.

## Wire Rope Sling Temperature

Wire rope should be protected from extreme temperatures. Steel core (IWRC) slings should never be used at 400° F or more and never below -40°F.

It is not always easy to spot when wire rope has been damaged by heat. The most visible signs are loss of lubrication, discoloration and fusing of the wires.

If there is even the slightest suspicion that a sling was exposed to heat then it should be removed from service immediately.



# MARINO CORPORATION OF INDIA

## TYPE 110 EIP FC or IWRC: Hand Spliced Slings Rated Capacity - US Tons



Rope Dia. (")	Vert	Choker Hitch	Basket Hitch			Eye Dimensions (")		Thimble Dimensions (")		Alloy Hook		
						A	B	A	B	WLL Tons		
				60	45	30						
6X19 OR 6X36 EIP	1/4	0.54	0.42	1.1	0.94	0.77	0.54	2.0	4	0.88	1.63	1
	5/16	0.83	0.66	1.7	1.4	1.2	0.83	2.5	5	1.06	1.88	1
	3/8	1.2	0.94	2.4	2.0	1.7	1.2	3.0	6	1.13	2.13	1 1/2
	7/16	1.6	1.3	3.2	2.7	2.2	1.6	3.5	7	1.25	2.38	2
	1/2	2.0	1.6	4.0	3.5	2.9	2.0	4.0	8	1.5	2.75	3
	9/16	2.5	2.1	5.0	4.4	3.6	2.5	4.5	9	1.5	2.75	5
	5/8	3.1	2.6	6.2	5.3	4.4	3.1	5.0	10	1.75	3.25	5
	3/4	4.3	3.7	8.6	7.4	6.1	4.3	6.0	12	2.0	3.75	7
	7/8	5.7	5.0	11	9.8	8.0	5.7	7.0	14	2.25	4.25	11
1	7.4	6.4	15	13	10	7.4	8.0	16	2.5	4.5	11	
6X36 EIP	1 1/8	9.3	8.1	19	16	13	9.3	9.0	18	2.88	5.13	15
	1 1/4	11	9.9	23	20	16	11	10	20	2.88	5.13	15
	1 3/8	14	12	27	24	19	14	11	22	3.5	6.25	22
	1 1/2	16	14	32	28	23	16	12	24	3.5	6.25	22
	1 3/4	22	19	44	38	31	22	14	28	4.5	9.0	30
	2	28	25	56	49	40	28	16	32	6.0	12	37
	2 1/4	35	31	70	61	50	35	18	36	7.0	14	45
2 1/2	43	38	86	74	61	43	20	40	8.0	17.5	60	

Rated Capacities in Basket Hitch based on D/d Ratio of 15.

Rated Capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter. Rated Capacities based on design factor of 5.

Horizontal sling angles of less than 30° shall not be used.

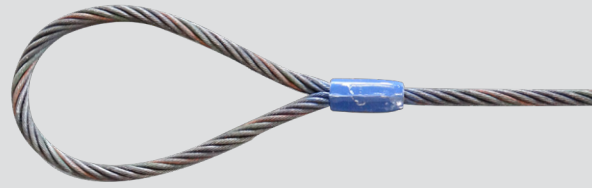
Note: Hidden tuck splice available

Sling and load shall not be allowed to rotate to insure splice does not come undone.





## TYPE 115 EIP IWRC: Mechanical Spliced Slings Rated Capacity - US Tons



Rope Dia. (")	Vert	Choker Hitch	Basket Hitch			Eye Dimensions (")		Thimble Dimensions (")		Alloy Hook WLL Tons		
						A	B	A	B			
				60	45	30						
6X19 OR 6X36 EIP	1/4	0.65	0.48	1.3	1.1	0.91	0.65	2.0	4	0.88	1.63	1
	5/16	1.0	0.74	2.0	1.7	1.4	1.0	2.5	5	1.06	1.88	1
	3/8	1.4	1.1	2.9	2.5	2.0	1.4	3.0	6	1.13	2.13	1 1/2
	7/16	1.9	1.4	3.9	3.4	2.7	1.9	3.5	7	1.25	2.38	2
	1/2	2.5	1.9	5.1	4.4	3.6	2.5	4.0	8	1.5	2.75	3
	9/16	3.2	2.4	6.4	5.5	4.5	3.2	4.5	9	1.5	2.75	5
	5/8	3.9	2.9	7.8	6.8	5.5	3.9	5.0	10	1.75	3.25	5
	3/4	5.6	4.1	11	9.7	7.9	5.6	6.0	12	2.0	3.75	7
	7/8	7.6	5.6	15	13	11	7.6	7.0	14	2.25	4.25	11
1	9.8	7.2	20	17	14	9.8	8.0	16	2.5	4.5	11	
6X36 EIP	1 1/8	12	9.1	24	21	17	12	9.0	18	2.88	5.13	15
	1 1/4	15	11	30	26	21	15	10	20	2.88	5.13	15
	1 3/8	18	13	36	31	25	18	11	22	3.5	6.25	22
	1 1/2	21	16	42	37	30	21	12	24	3.5	6.25	22
	1 3/4	28	21	57	49	40	28	14	28	4.5	9.0	30
	2	37	28	73	63	52	37	16	32	6.0	12	37
	2 1/4	44	35	89	77	63	44	18	36	7.0	14	45
	2 1/2	54	42	109	94	77	54	20	40	8.0	17.5	60
	2 3/4	65	51	130	113	92	65	22	44			
	3	77	60	153	133	108	77	24	48			
	3 1/2	102	79	203	176	144	102	28	56			
	4	130	101	260	224	183	130	32	64			
4 1/2	160	120	320	277	226	160	36	72				

Rated Capacities in Basket Hitch based on D/d Ratio of 25.

Rated Capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter. Rated Capacities based on design factor of 5.

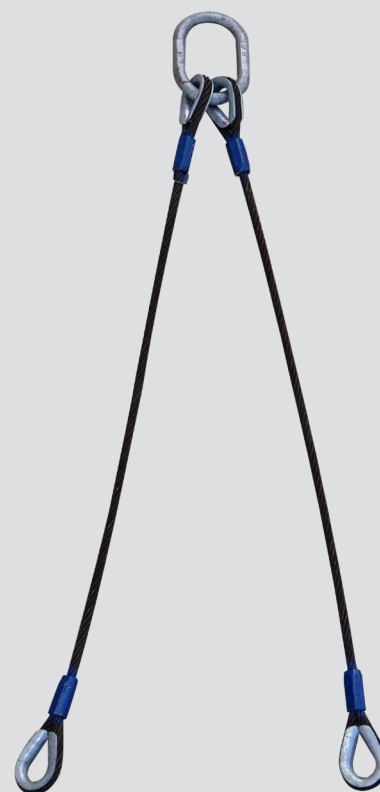
Horizontal sling angles of less than 30° shall not be used.





## TYPE 125 EIP IWRC: Mechanical Spliced Two Leg Spreaders Rated Capacity - US Tons

	Rope Dia. ("")	RATED CAPACITY (Tons)			Alloy Oblong	Alloy Hook
					Dia. ("")	WLL Tons
		60	45	30		
6x19 OR 6x36 EIP	1/4	1.1	0.91	0.65	0.50	1
	5/16	1.7	1.4	1.0	0.50	1
	3/8	2.5	2.0	1.4	0.50	1 1/2
	7/16	3.4	2.7	1.9	0.75	2
	1/2	4.4	3.6	2.5	0.63	3
	9/16	5.5	4.5	3.2	0.875	5
	5/8	6.8	5.5	3.9	1.0	5
	3/4	9.7	7.9	5.6	1.0	7
	7/8	13	11	7.6	1.25	11
6x36 EIP	1	17	14	9.8	1.50	11
	1 1/8	21	17	12	1.50	15
	1 1/4	26	21	15	1.75	15
	1 3/8	31	25	18	1.75	22
	1 1/2	37	30	21	2.0	22
	1 3/4	49	40	28	2.25	30
	2	63	52	37	2.5	37



Rated Capacities based on design factor of 5.  
Horizontal sling angles of less than 30° shall not be used.





## TYPE 135 EIP IWRC: Mechanical Spliced Three Leg Spreaders Rated Capacity - US Tons

	Rope Dia. (")	RATED CAPACITY (Tons)			Alloy Oblong Dia. (")	Alloy Hook WLL Tons
		60	45	30		
6x19 OR 6x36 EIP	1/4	1.7	1.40	0.97	0.75	1
	5/16	2.6	2.1	1.5	0.75	1
	3/8	3.7	3.0	2.2	0.75	1 1/2
	7/16	5.0	4.1	2.9	0.75	2
	1/2	6.6	5.4	3.8	1.0	3
	9/16	8.3	6.8	4.8	1.0	5
	5/8	10	8.3	5.9	1.0	5
	3/4	15	12	8.4	1.25	7
	7/8	20	16	11	1.5	11
1	26	21	15	1.5	11	
6x36 EIP	1 1/8	31	26	18	2	15
	1 1/4	38	31	22	2	15
	1 3/8	46	38	27	2.25	22
	1 1/2	55	45	32	2.5	22
	1 3/4	74	60	42	2.75	30



Master Link with  
Sub-Assemblies Optional

Rated Capacities based on design factor of 5.  
Horizontal sling angles of less than 30° shall not be used.





## TYPE 145 EIP IWRC: Mechanical Spliced Four Leg Spreaders Rated Capacity - US Tons

	Rope Dia. (")	RATED CAPACITY (Tons)			Alloy Oblong Dia. (")	Alloy Hook WLL Tons
		60	45	30		
6x19 OR 6x36 EIP	1/4	2.2	1.8	1.3	1/2"	1
	5/16	3.5	2.8	2.0	3/4"	1
	3/8	5.0	4.1	2.9	3/4"	1 1/2
	7/16	6.7	5.5	3.9	7/8"	2
	1/2	8.8	7.1	5.1	1"	3
	9/16	11	9.0	6.4	1"	5
	5/8	14	11	7.8	1.25	5
	3/4	19	16	11	1.5	7
	7/8	26	21	15	1.75	11
	1	34	28	20	2.0	11
6x36 EIP	1 1/8	42	34	24	2.25	15
	1 1/4	51	42	30	2.5	15
	1 3/8	62	50	36	2.75	22
	1 1/2	73	60	42	3 1/2"	22



Master Link with Sub-Assemblies Optional




Rated Capacities based on design factor of 5.  
Horizontal sling angles of less than 30° shall not be used.





## TYPE 315 EIP: Three-Part Braided Sling Rated Capacity - US Tons



	Rope Dia. (")	Sling Dia. (")	RATED CAPACITY (Tons)			Eye Dimensions (")	
			Vertical	Hitch Choker	Basket	Eye Width	Eye Length
							
6X19 OR 6x36 EIP	1/4	1/2	1.7	1.3	3.4	2	4
	5/16	5/8	2.6	1.9	5.2	3	6
	3/8	3/4	3.6	2.7	7.2	4	8
	7/16	7/8	4.9	3.7	9.8	5	10
	1/2	1	6.4	4.8	12	6	12
	9/16	1 1/8	8	6	16	7	14
	5/8	1 1/4	9.9	7.4	19	8	16
	3/4	1 1/2	14	10	28	10	20
	7/8	1 3/4	19	14	38	12	24
	1	2	24	18	49	14	28
6X36 EIP	1 1/8	2 1/4	31	23	62	16	32
	1 1/4	2 1/2	38	28	76	18	36
	1 3/8	2 3/4	46	34	92	20	40
	1 1/2	3	55	41	110	22	44
	1 3/4	3 1/2	73	54	146	26	52
	2	4	95	71	190	28	56
	2 1/4	4 1/2	118	88	236	32	64
	2 1/2	5	145	109	290	36	72
	2 3/4	5 1/2	173	130	346	40	80
	3	6	204	153	408	44	88
	3 1/2	7	270	202	540	48	96
	4	8	343	257	686	56	112
4 1/2	9	384	288	768	63	126	

Rated Capacities in Basket Hitch based on D/d ratio of 5 times the sling diameter.




Rated capacities based on D/d ratio of 1.5 times the sling diameter inside the eye.

Note: Locked eyes available





## TYPE 615 EIP IWRC: Six-Part Braided Sling Rated Capacity - US Tons

	Rope Dia. (")	Width of body (")	Thickness of body (")	RATED CAPACITY (Tons)			Eye Dimensions (")		Slip Thru Thimble	Heavy Thimble
				Vertical	Hitch Choker	Hitch Basket	A	B		
										
6X19 OR 6X36 EIP	1/4	1 1/8	11/16	2.9	2.5	5.7	5	10	ST 20	5/8
	5/16	1 3/8	7/8	4.4	3.9	8.9	6	12	ST 20	3/4
	3/8	1	1	6.3	5.5	13	7	14	ST 24	7/8
	7/16	2	1 3/16	8.6	7.5	17	8	16	ST 24	1
	1/2	2 1/4	1 5/16	11	9.8	22	9	18	ST 36	1 1/8
	9/16	2 1/2	1 1/2	14	12	28	10	20	ST 36	1 3/8
	5/8	2 13/16	1 11/16	17	15	35	11	22	ST 44	1 1/2
	3/4	3 3/8	2	26	22	49	12	24	ST 52	1 5/8
	7/8	4	2 5/16	33	29	67	14	28	ST 60	2
	1	4 1/2	2 11/16	43	38	87	16	32	ST 68	2 1/4
6X36 EIP	1 1/8	5 1/16	3	55	48	109	18	36	ST 80	2 1/2
	1 1/4	5 5/8	3 5/16	67	59	134	20	40	ST 80	
	1 3/8	6 3/16	3 11/16	81	71	161	22	44	ST 80	
	1 1/2	6 3/4	4	96	84	192	24	48		
	1 3/4	7 7/8	4 11/16	129	112	257	28	56		
	2	9	5 5/16	166	146	333	32	64		



Rated Capacities Basket Hitch based on D/d ratio of 25 times the component rope diameter.

Rated Capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter.

Rated Capacities based on design factor of 5.




Horizontal sling angles less than 30° shall not be used.





## TYPE 815 EIP IWRC: Eight-Part Braided Sling Rated Capacity - US Tons



Rope Dia. ("")	RATED CAPACITY (Tons)			Eye Dimensions ("")		Slip Thru Thimble	Heavy Thimble	
	Vertical	Hitch Choker	Hitch Basket	A	B			
						ST	HT	
6X19 OR 6X36 EIP	1/4	3.8	3.3	7.6	5	10	ST 20	7/8
	5/16	5.9	5.2	12.0	6	12	ST 24	1
	3/8	8.5	7.4	17.0	7	14	ST 36	1 1/8
	7/16	11	10	23	8	16	ST 36	1 1/4
	1/2	15	13	30	9	18	ST 44	1 1/2
	9/16	19	16	38	10	20	ST 52	1 3/4
	5/8	23	20	46	11	22	ST 60	2
	3/4	33	29	66	12	24	ST 68	2 1/4
	7/8	45	39	89	14	28	ST 80	2 1/2
1	58	51	116	16	32	ST 80	2 1/2	
6X36 EIP	1 1/8	72	64	146	18	36		
	1 1/4	89	78	179	20	40		
	1 3/8	108	94	215	22	44		
	1 1/2	128	112	255	24	48		
	1 3/4	171	150	343	28	56		
	2	222	194	444	32	64		

Rated Capacities Basket Hitch based on D/d ratio of 25 times the component rope diameter.

Rated Capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter.

Rated Capacities based on design factor of 5.




Horizontal sling angles less than 30° shall not be used.





## TYPE 915 EIP IWRC: Nine-Part Braided Sling Rated Capacity - US Tons



	Rope Dia. (")	Sling Dia. (")	RATED CAPACITY (Tons)			Eye Dimensions	
			Vertical	Hitch Choker	Hitch Basket	Eye Width (")	Eye Length (")
							
6X19 OR 6X36 EIP	1/4	1	4.3	3.2	8.6	6	12
	5/16	1 1/4	6.6	5	13	6	12
	3/8	1 1/2	9.5	7.1	19	7 1/2	13
	7/16	1 3/4	14	11	29	9	18
	1/2	2	19	14	38	10	20
	9/16	2 3/16	24	18	48	12	24
	5/8	2 1/2	29	22	59	12	24
	3/4	3	42	32	84	15	30
6X36 EIP	7/8	3 1/2	57	43	114	17	34
	1	4	74	56	148	20	40
	1 1/8	4 1/2	93	60	187	22	44
	1 1/4	5	115	86	230	25	50
	1 3/8	5 1/2	138	104	276	27	54
	1 1/2	6	164	123	328	30	60
	1 3/4	7	220	165	440	35	70
	2	8	285	214	570	40	80
	2 1/4	9	355	267	711	45	90
	2 1/2	10	434	326	869	50	100
	2 3/4	11	485	358	970	55	110
	3	12	574	424	1148	60	120
3 1/2	14	761	563	1421	70	140	
4	16	972	719	1544	80	160	
4 1/2	18	1200	888	2400	90	180	

Rated Capacities based on pin diameter no larger than natural width or less than the nominal diameter  
 Rated Capacities in basket hitch based on D/d ratio of 5 times the sling body diameter  
 Rated Capacities based on design factor of 5.  
 Horizontal sling angles of less than 30° shall not be used.





## TYPE 8P1 7X19: Galvanized Braided Sling Rated Capacity - US Tons



Rope Dia. (")	Sling Dia. (")	Rates Capacity in Tons							Eye Dimensions (")		Slip Thru Thimble	Heavy Thimble
		Vertical	Choker Hitch	Basket Hitch			A	B	ST	HT		
				60	45	30						
7X19 GALV.	1/8	9/16	1.1	1.0	2.2	1.9	1.6	1.1	3	6	ST 10	1/2
	3/16	13/16	1.9	1.6	3.7	3.2	2.6	1.9	4	8	ST 16	5/8
	1/4	1 1/8	3.3	2.9	6.6	5.7	4.7	3.3	5	10	ST 20	7/8
	5/16	1 3/8	5.1	4.5	10	8.9	7.3	5.1	6	12	ST 24	1
	3/8	1 11/16	7.3	6.4	15	13	10	7.3	7	14	ST 36	1 1/8

Made with 7x19 GAC component rope.

Rated Capacities in Basket Hitch based on D/d ratio of 25 times the component rope diameter.

Rated Capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter.

Rated Capacities based on design factor of 5.




Horizontal sling angles less than 30° shall not be used.





## TYPE 8P2 7X19: Two-Leg Galvanized Braided Sling Rated Capacity - US Tons



	Rope Dia. (")	Sling Dia. (")	Single Leg Choker	Rated Capacity in Tons			Alloy Oblong Link Dia. (")
				Legs in a Choker Hitch			
				60	45	30	
							
7X19 GALV.	1/8	9/16	1	1.7	1.4	0.98	1/2
	3/16	13/16	1.6	2.8	2.3	1.6	1/4
	1/4	1 1/8	2.9	5	4.1	2.9	1
	5/16	1 3/8	4.5	7.8	6.3	4.5	1 1/4
	3/8	1 11/16	6.4	11	9.1	6.4	1 1/4




Made with 7x19 GAC component rope.  
 Rated Capacities based on design factor of 5.  
 Horizontal sling angles less than 30° shall not be used.





## TYPE 8P3 7X19: Three-Leg Galvanized Braided Sling Rated Capacity - US Tons



	Rope Dia. (")	Sling Dia. (")	Single Leg Choker	Rated Capacity in Tons			Alloy Oblong Link Dia. (")
				Legs in a Choker Hitch			
				60	45	30	
							
7X19 GALV.	1/8	9/16	1	2.5	2.1	1.5	3/4
	3/16	13/16	1.6	4.3	3.5	2.5	3/4
	1/4	1 1/8	2.9	7.5	6.1	4.3	1 1/4
	5/16	1 3/8	4.5	12	9.5	6.7	1 1/2
	3/8	1 11/16	6.4	17	14	9.6	2

Made with 7x19 GAC component rope.  
 Rated Capacities based on design factor of 5.  
 Horizontal sling angles less than 30° shall not be used.

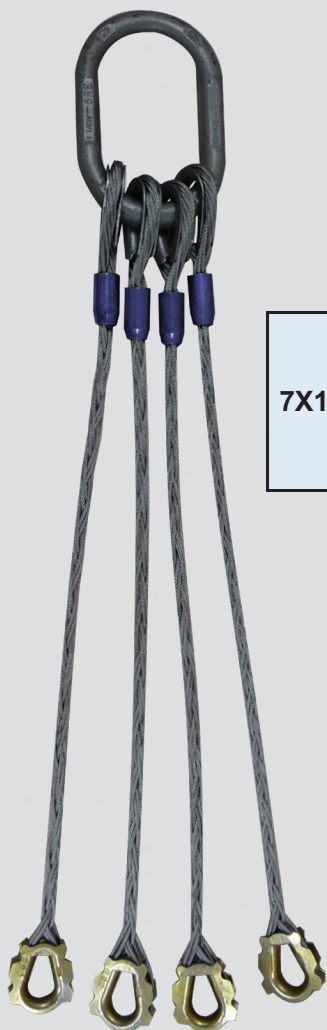





*Master Link with  
 Sub-Assemblies Optional*





## TYPE 8P4 7X19: Four-Leg Galvanized Braided Sling Rated Capacity - US Tons



	Rope Dia. (")	Sling Dia. (")	Single Leg Choker	Rated Capacity in Tons			Alloy Oblong Link Dia. (")
				Legs in a Choker Hitch			
				60	45	30	
							
7X19 GALV.	1/8	9/16	1	3.4	2.8	2	1
	3/16	13/16	1.6	5.7	4.6	3.3	1 1/2
	1/4	1 1/8	2.9	10	8.1	5.8	1 3/4
	5/16	1 3/8	4.5	16	13	9	2
	3/8	1 11/16	6.4	22	18	13	2 3/4

Made with 7x19 GAC component rope.  
 Rated Capacities based on design factor of 5.  
 Horizontal sling angles less than 30° shall not be used.



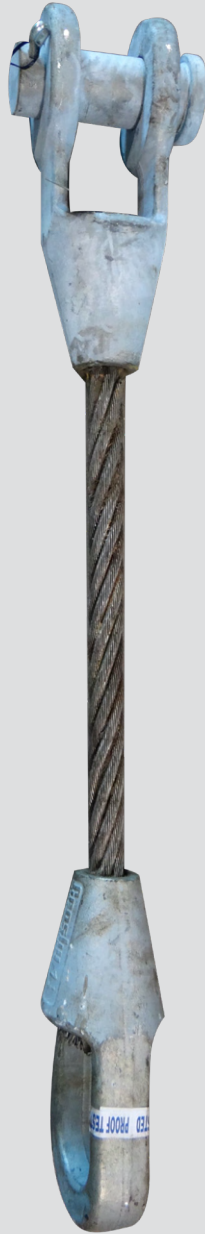
*Master Link with  
 Sub-Assemblies Optional*





## TYPE 110 EIP IWRC: Spelter Socket Assembly

Rated Capacity - US Tons



110 Spelter Socket	Rated Capacity in Tons		
	Dia. (")	EIP	EEIP
	1/4	0.68	0.75
	5/16	1.1	1.2
	3/8	1.5	1.7
	7/16	2	2.2
	1/2	2.7	2.9
	9/16	3.4	3.7
	5/8	4.1	4.5
	3/4	5.9	6.5
	7/8	8	8.8
	1	10	11
	1 1/8	13	14
	1 1/4	16	18
	1 3/8	19	21
	1 1/2	23	25
	1 5/8	26	29
	1 3/4	31	34
	1 7/8	35	38
	2	40	43
	2 1/8	44	49
	2 1/4	49	54
	2 3/8	55	60
	2 1/2	60	66
	2 5/8	66	73
	2 3/4	72	79
	2 7/8	78	86
	3	85	94
	3 1/8	92	101
	3 1/4	98	108
	3 3/8	106	116
	3 1/2	113	124
	3 3/4	128	141
	4	144	
	4 1/2	178	

Rated capacities based on a design factor of 5.



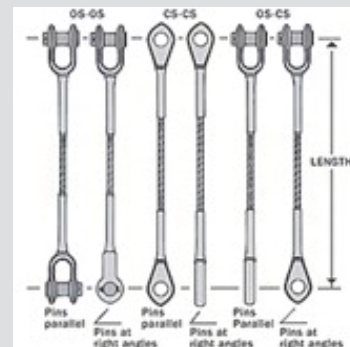


## TYPE 115 EIP IWRC: Swaged Socket Assembly Rated Capacity - US Tons



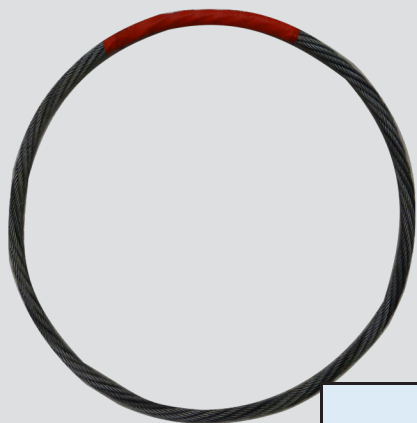
	Diameter (")	Rated Capacity (Tons)	
		EIP	EEIP
6X19 OR 6X36 EIP	1/4	0.68	0.74
	5/16	1.1	1.2
	3/8	1.5	1.7
	7/16	2	2.2
	1/2	2.7	2.9
	9/16	3.4	3.7
	5/8	4.1	4.5
	3/4	5.9	6.5
	7/8	8	8.8
	1	10	11
6X36 EIP	1 1/8	13	14
	1 1/4	16	18
	1 3/8	19	21
	1 1/2	23	25
	1 3/4	31	34
	2	40	43







Rated capacities based on a design factor of 5.





## TYPE 210 EIP IWRC: Strand Laid Hand Splice Continuous Construction Grommet Rated Capacity - US Tons



Sling Body Dia. (")	RATED CAPACITY - Tons						
	 Vertical	 Choker	Basket Hitch				
			 Vertical	 60 °	 45°	 30°	
6X19 OR 6X36 EIP	1/4	0.94	0.66	1.9	1.6	1.3	0.94
	5/16	1.5	1	2.9	2.5	2.1	1.5
	3/8	2.1	1.5	4.2	3.6	3.0	2.1
	7/16	2.8	2	5.7	4.9	4.0	2.8
	1/2	3.7	2.6	7.3	6.4	5.2	3.7
	9/16	4.6	3.2	9.3	8.0	6.6	4.6
	5/8	5.7	4	11	9.9	8.1	5.7
	3/4	8.2	5.7	16	14	12	8.2
	7/8	11	7.7	22	19	16	11
	1	14	10	29	25	20	14
6X36 EIP	1 1/8	18	12	35	31	25	18
	1 1/4	21	15	43	37	30	21
	1 3/8	25	18	51	44	36	25
	1 1/2	30	21	60	52	42	30
	1 3/4	40	28	79	69	56	40
	2	50	35	101	87	71	50
	2 1/4	62	43	124	107	88	62
	2 1/2	75	52	149	129	106	75
	2 3/4	89	62	177	154	125	89
	3	104	73	207	180	147	104







Rated Capacities based on design factor of 5.  
Horizontal sling angles less than 30° shall not be used.  
Rated Capacities based on D/d ratio of 5.





## TYPE 215 EIP IWRC: Mechanical Splice Grommet Rated Capacity - US Tons



Sling Body Dia. (")	RATED CAPACITY - Tons						
	 Vertical	 Choker	Basket Hitch				
			 Vertical	 60 °	 45°	 30°	
6X19 OR 6X36 EIP	1/4	1.1	0.74	2.1	1.8	1.5	1.10
	5/16	1.6	1.2	3.3	2.8	2.3	1.6
	3/8	2.4	1.6	4.7	4.1	3.3	2.4
	7/16	3.2	2.2	6.4	5.5	4.5	3.2
	1/2	4.1	2.9	8.3	7.2	5.9	4.1
	9/16	5.2	3.7	10	9.1	7.4	5.2
	5/8	6.4	4.5	13	11.0	9.1	6.4
	3/4	9.2	6.4	18	16	13	9.2
	7/8	12	8.7	25	22	18	12
	1	16	11	32	28	23	16
6X36 EIP	1 1/8	20	14	41	35	29	20
	1 1/4	25	17	50	43	35	25
	1 3/8	30	21	60	52	42	30
	1 1/2	36	25	71	62	50	36
	1 3/4	48	33	95	83	68	48
	2	62	43	124	107	87	62
	2 1/4	77	54	154	133	109	77
	2 1/2	94	66	188	163	133	94
	2 3/4	113	79	225	195	159	113
	3	133	93	265	230	188	133
	3 1/2	176	123	352	304	248	176
	4	225	157	450	389	317	225
4 1/2	278	194	555	481	392	278	







Rated Capacities based on design factor of 5.  
Horizontal sling angles less than 30° shall not be used.  
Rated Capacities based on D/d ratio of 5.





## TYPE 270 EIP IWRC: Cable Laid Hand Splice Continuous Construction Grommet Rated Capacity - US Tons



RATED CAPACITY - TONS								
Sling Body Dia.	Comp Rope Dia.			Basket Hitch				
								
								Vertical
6X19 OR 6X36 EIP	3/4	1/4	5.6	3.6	11	9.7	7.90	5.6
	15/16	5/16	8.7	5.6	17	15.0	12	8.7
	1 1/8	3/8	12	8	25	21.0	17	12
	1 5/16	7/16	17	11	33	29.0	23	17
	1 1/2	1/2	21	14	43	37.0	30	21
	1 11/16	9/16	27	17	53	46.0	38	27
	1 7/8	5/8	33	21	66	57.0	46	33
	2 1/4	3/4	46	30	92	80	65	46
	2 5/8	7/8	62	40	123	107	87	62
3	1	79	51	158	137	112	79	
6X36 EIP	3 3/8	1 1/8	98	64	196	170	138	98
	3 3/4	1 1/4	119	77	237	205	168	119

Rated Capacities based on design factor of 5.  
Horizontal sling angles less than 30° shall not be used.  
Rated Capacities based on D/d ratio of 5.





## TYPE CL15: Galvanized Cable Laid Single Part Sling Rated Capacity - US Tons



Rope Dia. (")	Vertical	Choker Hitch	Basket Hitch			Eye Dimensions (")		Thimble Dimensions		Alloy Hook		
						A	B	A	B	WLL Tons		
				60°	45°	30°						
7X7X7	1/4	0.50	0.34	1.0	0.87	0.71	0.50	2.0	4	0.88	1.63	1
	3/8	1.1	0.74	2.2	1.9	1.5	1.1	3.0	6	1.13	2.13	1 1/2
	1/2	1.9	1.3	3.7	3.2	2.6	1.9	4.0	8	1.5	2.75	2
	5/8	2.8	1.9	5.5	4.8	3.9	2.8	5.0	10	1.75	3.25	3
7X7X19	3/4	4.1	2.8	8.1	7.0	5.8	4.1	6.0	12	2.0	3.75	5
	7/8	5.4	3.7	11	9.4	7.6	5.4	7.0	14	2.25	4.25	7
	1	6.9	4.7	14	12	9.7	6.9	8.0	16	2.5	4.50	7
	1 1/8	8.3	5.8	17	14	12	8.3	9.0	18	2.88	5.13	11
	1 1/4	9.9	7.0	20	17	14	9.9	10	20	2.88	5.13	11

Rated Capacities Basket Hitch based on D/d ratio of 25 times the component rope diameter.

Rated Capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter.

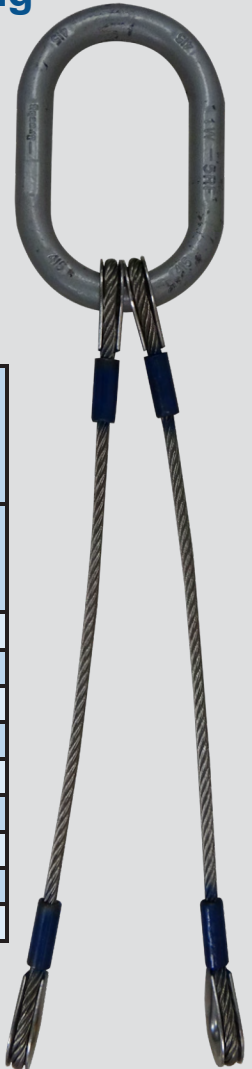
Rated Capacities based on design factor of 5.




Horizontal sling angles less than 30° shall not be used.





## TYPE CL25: Galvanized Cable Laid Two-Leg Sling Rated Capacity - US Tons






Rope Dia. (")	RATED CAPACITY (Tons)			Alloy Oblong Diameter (")	Alloy Hook WLL Tons
					
	60°	45°	30°		
7X7X7	1/4	0.87	0.71	0.50	1
	3/8	1.9	1.5	0.50	1 1/2
	1/2	3.2	2.6	0.75	2
	5/8	4.8	3.9	1.00	3
7X7X19	3/4	7	5.8	1.00	5
	7/8	9.4	7.6	1.25	7
	1	12	9.7	1.25	7
	1 1/8	14	12	1.50	11
	1 1/4	17	14	1.75	11

Rated Capacities based on design factor of 5.  
Horizontal sling angles less than 30° shall not be used.





## TYPE CL35: Galvanized Cable Laid Three-Leg Sling Rated Capacity - US Tons

	Rope Dia. (")	RATED CAPACITY (Tons)			Alloy Oblong	Alloy Hook
						
		60°	45°	30°	Diameter (")	WLL Tons
7X7X7	1/4	1.3	1.1	0.76	0.63	1
	3/8	2.8	2.3	1.6	0.9	1 1/2
	1/2	4.8	3.9	2.8	0.9	2
	5/8	7.2	5.9	4.2	1.3	3
7X7X19	3/4	11	8.6	6.1	1.50	5
	7/8	14	11	8.1	1.8	7
	1	18	15	10	1.75	7
	1 1/8	21	18	12	1.75	11
	1 1/4	26	32	15	2.0	11



Rated Capacities based on design factor of 5.  
Horizontal sling angles less than 30° shall not be used.






Master Link with  
Sub-Assemblies Optional





## TYPE CL45: Galvanized Cable Laid Four-Leg Sling Rated Capacity - US Tons



	Rope Dia. (")	RATED CAPACITY (Tons)			Alloy Oblong Diameter (")	Alloy Hook WLL Tons
						
		60°	45°	30°		
7X7X7	1/4	1.7	1.4	1	0.75	1
	3/8	3.8	3.1	2.2	0.75	1 1/2
	1/2	6.4	5.2	3.7	1.00	2
	5/8	9.6	7.8	5.5	1.25	3
7X7X19	3/4	14	11	8.1	1.5	5
	7/8	19	15	11	1.75	7
	1	24	19	14	2	7
	1 1/8	29	23	17	2.25	11
	1 1/4	34	28	20	2.50	11

Rated Capacities based on design factor of 5.  
Horizontal sling angles less than 30° shall not be used.



*Master Link with  
Sub-Assemblies Optional*





## TYPE SS15 T-304: Stainless Steel Sling Rated Capacity - US Tons



	Rope Dia. (")	Vertical	Choker Hitch	Basket Hitch			Eye Dimensions (")		Thimble Dimensions (")		Alloy Hook WLL Tons	
							A	B	A	B		
												60°
6X19 OR 6X36 EIP	1/4	0.61	0.45	1.2	1.1	0.86	0.61	2.0	4	0.88	1.63	1
	5/16	0.86	0.63	1.7	1.5	1.2	0.86	2.5	5	1.06	1.88	1
	3/8	1.1	0.84	2.3	2.0	1.6	1.1	3.0	6	1.13	2.1	1 1/2
	7/16	1.5	1.1	3.1	2.7	2.2	1.5	3.5	7	1.25	2.38	2
	1/2	2.2	1.6	4.3	3.8	3.1	2.2	4.0	8	1.5	2.75	3
	9/16	2.7	2.0	5	4.7	3.8	2.7	4.5	9	1.5	2.75	5
	5/8	3.3	2.5	7	5.8	4.7	3.3	5.0	10	1.75	3.25	5
	3/4	4.7	3.5	9	8.2	6.7	4.7	6.0	12	2.0	3.75	5
	7/8	6.3	4.7	13	11	8.9	6.3	7	14	2.25	4.25	5
1	8.1	6.0	16	14	11	8	8	16	2.5	4.5	11	
6X36 EIP	1 1/8	10	7.4	20	17	14	10	9	18	2.88	5.13	11
	1 1/4	12	9.1	25	21	17	12	10	20	2.88	5.13	15
	1 3/8	14	11	29	24	20	14	11	22	3.5	6.25	22
	1 1/2	17	13	34	29	24	17	12	24	3.5	6.25	22
	1 3/4	22	17	45	38	31	22	14	28	4.5	9.0	30
	2	28	21	57	48	39	28	16	32	6.0	12	37
	2 1/4	35	25	69	57	49	33	18	36	7.0	14	45

Rated Capacities Basket Hitch based on D/d ratio of 25 times the component rope diameter.

Rated Capacities based on pin diameter no larger than natural eye width or less than the nominal sling diameter.




Rated Capacities based on design factor of 5.

Horizontal sling angles less than 30° shall not be used.





## TYPE SS25 T-304: Two-Leg Stainless Steel Sling Rated Capacity - US Tons

	Rope Dia. (")	RATED CAPACITY (Tons)			Alloy Oblong Diameter (")	Alloy Hook WLL Tons
						
		60°	45°	30°		
7X7X7	1/4	1.1	0.86	0.61	0.50	1
	5/16	1.5	1.2	0.86	0.50	1
	3/8	2	1.6	1.1	0.50	1 1/2
	7/16	2.7	2.2	1.5	0.75	2
	1/2	3.8	3.1	2.2	0.75	3
	9/16	4.7	3.8	2.7	0.875	5
	5/8	5.8	4.7	3.3	1.0	5
	3/4	8.2	6.7	4.7	1.0	5
	7/8	11	8.9	6.3	1.25	5
7X7X19	1	14	11	8	1.50	11
	1 1/8	17	14	10	1.50	11
	1 1/4	21	17	12	1.75	15
	1 3/8	24	20	14	1.75	22
	1 1/2	29	24	17	2.0	22
	1 3/4	38	31	22	2.25	30
	2	48	39	28	2.5	37






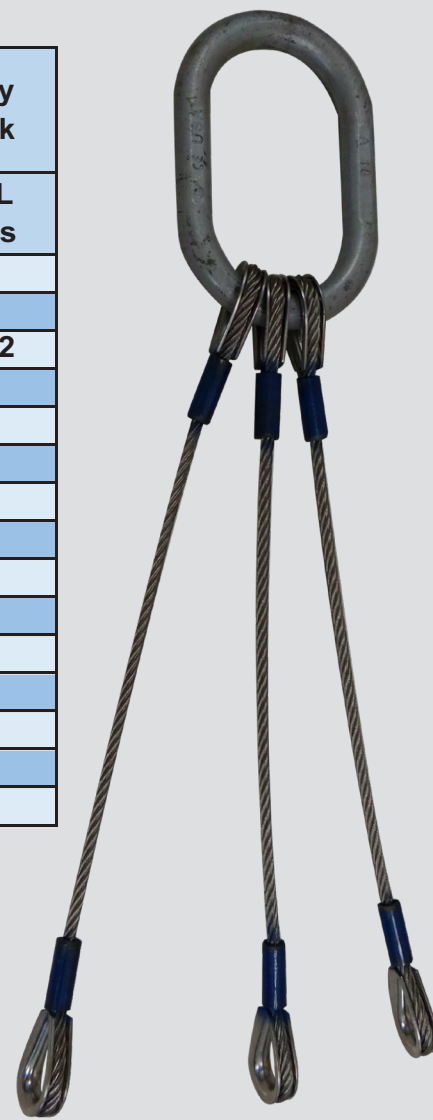
Rated Capacities based on design factor of 5.  
Horizontal sling angles less than 30° shall not be used.





## TYPE SS35 T-304: Three Leg Stainless Steel Sling Rated Capacity - US Tons

Rope Dia. (")	RATED CAPACITY (Tons)			Alloy Oblong Diameter (")	Alloy Hook WLL Tons	
						
	60°	45°	30°			
6X19 OR 6X36	1/4	1.6	1.3	0.91	0.75	1
	5/16	2.2	1.8	1.3	0.75	1
	3/8	3	2.4	1.7	0.875	1 1/2
	7/16	4	3.3	2.3	1.0	2
	1/2	5.6	4.6	3.2	1.0	3
	9/16	7.1	5.8	4.1	1.0	5
	5/8	8.6	7.1	5	1.0	5
	3/4	12	10	7.1	1.5	5
	7/8	16	13	9.5	1.75	5
1	21	17	12	1.75	11	
6X36	1 1/8	26	21	15	2	11
	1 1/4	31	25	18	2.25	15
	1 3/8	36	30	21	2.5	22
	1 1/2	43	35	25	2.5	22
	1 3/4	57	46	33	2.75	30



Rated Capacities based on design factor of 5.  
Horizontal sling angles less than 30° shall not be used.






Master Link with  
Sub-Assemblies Optional





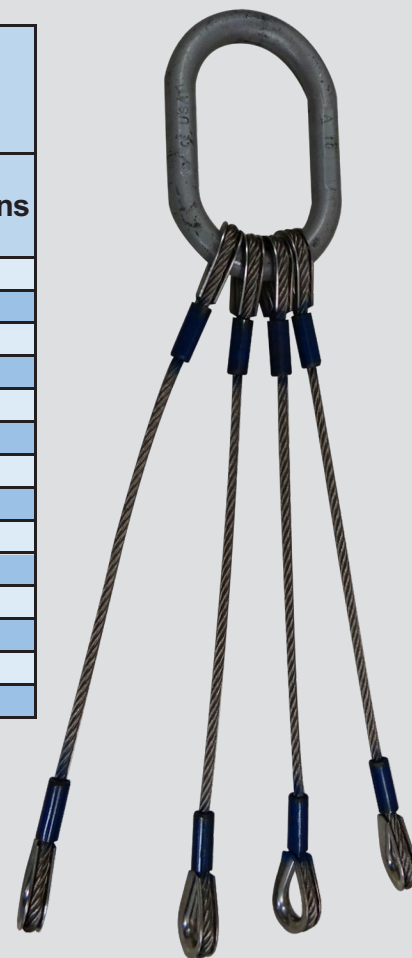
## TYPE SS45 T-304: Four-Leg Stainless Steel Sling Rated Capacity - US Tons

	Rope Dia. (")	RATED CAPACITY (Tons)			Oblong Link	Alloy Hook
						
		60°	45°	30°	Diameter (")	WLL Tons
6X19 OR 6X36	1/4	2.1	1.7	1.2	0.75	1
	5/16	3	2.4	1.7	0.75	1
	3/8	3.9	3.2	2.3	0.875	1 1/2
	7/16	5.4	4.4	3.1	1.0	2
	1/2	7.5	6.1	4.3	1.0	3
	9/16	9.4	7.7	5.4	1.25	5
	5/8	12	9.4	6.7	1.25	5
	3/4	16	13	9.4	1.5	5
	7/8	22	18	13	1.75	5
6X36	1	28	23	16	2.0	11
	1 1/8	34	28	20	2.25	11
	1 1/4	41	34	24	2.5	15
	1 3/8	49	40	28	2.75	22
	1 1/2	58	47	33	3.0	22

Rated Capacities based on design factor of 5.  
Horizontal sling angles less than 30° shall not be used.



Master Link with  
Sub-Assemblies Optional





**भारतीय मानक**  
**Indian Standard**

**IS 2266 : 2024**



सत्यमेव जयते

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