

MARINO
CORPORATION OF INDIA

WIRE ROPE & SLING SOLUTIONS



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

GST: 19ADMPR1740H1ZA

✉ Email: marinocoindia@gmail.com

🌐 www.marinoindia.co.in





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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, Manli, Damdik, Distt. Kangra (H.P.)-176404, Ph. +91-1893-244680, Fax. +91-1893-244081
Unit - II : G.T. Road, Vill-Channi, P.O.- Toki, The - Indore, Distt. Kangra (HP)
Comes office: 4119, 1st Floor Inside Aymen Gate, Delhi-110006

ISO 9001:2008 CERTIFIED

nsi

CERTIFICATE OF TEST

Date	: 17/05/2022
Certificate Number	: NSIPL/II/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 ²
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.

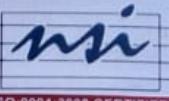
Manager (Quality Control)



Navin Steel Industries Pvt. Ltd.

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

Unit - I : G.T. Road, Mohali, Damdial, Distt. Kangra (H.P)-176404. Ph. +91-1893-244690. Fax. +91-1893-244081
Unit - II : G.T. Road, Vill. Channi, P.O.-Toki, Tha - 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 ²
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 Slings

Unit-1, G.T. Road, Momin, Dharavi, Dist. Navi Mumbai, Pin - 400 085. Tel: +91 1202 244880 Fax: +91 1202 244881
Unit-2, G.T. Road, Vile Parle, P.O. - Talo, Thane - India, Dist. Navi Mumbai.
Cables office: 4118 40700 Trade, Aeron Com, Dharavi - 400 085.



022 2555 2555

CERTIFICATE OF TEST

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

SPECIFICATIONS

Diameter of Rope	: 12 mm
Constriction	: BX36
Strand Construction	: 14/7 & 7/7/1
Tensile Grade of Steel Wire	: 1770 N/mm ²
Wire Finish	: Un Galvanized
Type of Core/Twist Direction	: Steel Core
Length of Rope (Mtrs)	: 610 Mtr. 2 Reel
Mass/Unit Length (Approximate)	: 3.07 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 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 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	:	<u>23834/1-2</u>	h. Lay	:	<u>RHO</u>
b. Length of the Rope	:	<u>2 x 1000 MTR</u>	i. Coating	:	<u>UNG</u>
c. Diameter of Rope	:	<u>16.00 MM</u>	j. Tensile strength	:	<u>1770 N/MM²</u>
d. No. of strands	:	<u>6</u>	k. Lubrication	:	<u>OK</u>
e. No. of Wires/Strand	:	<u>36</u>	l. Lubricant	:	<u>PETROLEUM BASED</u>
f. Construction	:	<u>6X36SW</u>	m. Preforming	:	<u>OK</u>
g. Main Core	:	<u>CWR</u>			
 6. Test Particulars

a. Date of test of sample & inspection	:	<u>13/07/2025</u>
b. Min. Breaking Force reqd. as per Std.	:	<u>161 KN</u>
c. Breaking Force of Rope (Aggregate/actual) :	:	<u>188 KN</u>
- 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

for *Kathy*

Signature of Competent Person

Date :



ORION



ORION



ORION



ORION



ORION



ORION



ORION



Date :

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

IS : 2266

 CML-7190369

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 : 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	b. Length of the Rope : 1 x 1020 MTR	c. Diameter of Rope : 13.00 MM	d. No. of strands : 18	e. No. of Wires/Strand : 7	f. Construction : 18x7	g. Main Core : CWS	h. Lay : UNG	i. Coating : PETROLEUM BASED	j. Tensile strength : 1770 N/MM ²	k. Lubrication : OK	l. Lubricant : RHO	m. Preforming : OK
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 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

for Kpatu

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@orlonropes.com, orlonrope@dataone.in
Visit us at : www.orlonropes.com

IS : 2266

CML-7190369

AN ISO 9001 : 2015 CERTIFIED CO. BY TUV AUSTRIA

MILL TEST CERTIFICATE

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.

Standard Specification No.

231/ 2025-2026

- | | | | |
|--|--|-----------------------|------------------------|
| 1. Test Certificate Number | 231/ 2025-2026 | | |
| 2. Manufacturer of Rope | { Name
Address : ORION ROPES PVT. LTD.
D-59-60, M.I.D.C, Avadhan, Dhule - 424 311, M.S., India | | |
| 3. Test House Conducting Test & Examination | { Name
Address : ORION ROPES PVT. LTD.
D-59-60, M.I.D.C, Avadhan, Dhule - 424 311, M.S., India | | |
| 4. Authority Conducting Test & Examination | { Name
Designation : QA-ENGINEER | | |
| 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/MM ² |
| 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 | | | |
| 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 Katie
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



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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	b. Length of the Rope : 1 x 1000 MTR	c. Diameter of Rope : 24.00 MM	d. No. of strands : 6	e. No. of Wires/Strand : 36	f. Construction : 6X36SW	g. Main Core : CWR	h. Lay : RHO	i. Coating : UNG	j. Tensile strength : 1770 N/MM ²	k. Lubrication : OK	l. Lubricant : PETROLEUM BASED	m. Preforming : OK
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 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

USHA MARTIN WIRE ROPES

CERTIFICATES:



Usha Martin Limited
(Wire Ropes & Speciality Products Division)

Works : Bansdroni, 825005, Ranchi, Jharkhand, India
Phone : +91 941 650 7050 / 480 / 12952240
Fax : +91 941 650 7050 / 489
CIN : L23450JH2019RPT07290172
Website : www.ushamartin.com
e-mail : contact@ushamartin.com.in

TEST REPORT No. 9/8574880040

Customer

Form No. UML-4-QA-01A, Issue 02 Rev 02

VAR - TCS016211100159999 Date of Issue : 29-03-2021

Customer Order Ref : INDIAN STORES SUPPLYING CO PVT LTD, KOLKATA, 700021
Sales Order Number : ISSC 20-21 Order on account Skipper
Ref Number : 31300205200110
Date of Sample Receipt : 25-02-2021
Manufacturer : 8574880040
Date of Test : 29-03-2021
USHA MARTIN LIMITED, INDIA

Applied Standard	SPECIFICATION
Item	IS-2068/2013 (Marked)
Nominal Diameter of rope	Steel Wire Rope
Construction	12 mm
Strand Construction	6X19F
Grade	12-BF-6-1
Wire Finish	1770
Type of Core/Lay Direction	Ungalv'd
Length of Rope	WWRC / RHO (s2)
Mass/Unit Length (Ropes)	1000 m
Lubrication	0.598 Kg/mtr
Minimum Breaking Force	A2 / PETROLEUM LUBE
Prestretching	93.0 kN
	N.A.

RESULTS OF TEST & EXAMINATION

Diameter (Off-tension)-IS 6594 : 12.175 mm
Lay (Off-tension)-IS 6594 : 76.000 mm
Breaking Force -IS 1608 : 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.

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

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

Note:

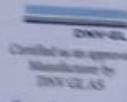
- Scope of NABL: The following tests are not covered under NABL Scope of Accreditation.
- Any test of wire diameter <1.0 mm and >5.0 mm
 - Knot test result of wires
 - Chemical analysis of wire rod

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Page 1 of 1



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Manufacturer by
Lloyd's Register



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Manufacturer by
DNV GL AS



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MANUFACTURER BY
AMERICAN BUREAU OF SHIPPING

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EOP-3-145/01 Rev. 2, dated 28/12/2018



Usha Martin Limited
(Wire Ropes & Specialty Products Division)

Works : Bansdroni, 405105, Ranchi, Jharkhand, India
Phone : +91 94 650 71000 / 0601 / 0265240
Fax : +91 94 650 71000-409
CIN : L14400JH2000PLC094921
Website : www.ushamartin.com
e-mail : cmca@ushamartin.com

TEST REPORT No. 9/8574880042

Form No. UML-4-QA-67/A, Issue 02, Rev 02

Customer

VAL - TCS0182111801888888 Date of Issue : 29-03-2021

Customer Order Ref

: INDIAN STORES SUPPLYING CO. PVT LTD, KOLKATA, 700021

Sales Order Number

: ISSC20-21 Order on account, SHASHI

Date: 10-02-2021

Reel Number

: 313002620010

Date: 25-02-2021

Date of Sample Receipt

: 29-02-2021

Date of Test : 29-03-2021

Manufacturer

: USHA MARTIN LIMITED, INDIA

Applied Standard

SPECIFICATION

Item

: IS-2068/2013 (Marked)

Nominal Diameter of rope

: Steel Wire Rope

Construction

: 12 mm

Strand Construction

: 6X19F

Grade

: 12-BF-E-1

Wire Finish

: Ungalv'd

Type of Core/Lay Direction

: IWRC / RHO (zZ)

Length of Rope

: 1000 m

Mass/Unit Length (Approx.)

: 0.598 Kg/m

Lubrication

: A2 / PETROLEUM LUBE

Minimum Breaking Force

: 93.0 kN

Prestretching

: N.A.

RESULTS OF TEST & EXAMINATION

Diameter (Off-tension)-IS 6594 : 12.175 mm

Lay (Off-tension)-IS 6594 : 78.000 mm

Breaking Force -IS 1628 : 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:

Authorized Signature
S. MANOHAR - QA
Usha Martin Limited
Ranchi, Jharkhand

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

100000000X

Page 1 of 1



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TUV
Certified by TUV for the
QMS to ISO 9001

Regd. Office : 2A, Shakespeare Sarani, Kolkata 700071, India, Phone : (033) 22822985, Fax : (033) 2282 5306 / 9029 / 71006415
EOP-3-145/01 Rev. 2, dated 28/12/2015



TEST REPORT No: H CT26800003

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

Date: 19-05-2025

Sales Order Number

: 3130049588/360

Date: 21-05-2025

Reel Number

: C726800003

Date of Test : 03-06-2025

Date of Sample Receipt

: 03-06-2025

Manufacturer

: USHA MARTIN LIMITED(NORTH), INDIA



Applied Standard

SPECIFICATION

Item	: IS-2266/2024 (Marked)
Nominal Diameter of rope	: Steel Wire Rope
Construction	: 28.00 mm
Strand Construction	: 6X36SW , Preformed
Grade	: 14-7-7-1
Wire Finish	: Ungalvd
Type of Core/Lay Direction	: IWRC / RHO (sZ)
Length of Rope	: 500 m
Mass/Unit Length (Apprx.)	: 3.259 Kg/Mtr
Lubrication	: A2 (P2200) / PETROLEUM LUBE
Minimum Breaking Force	: 548.000 kN
Prestretching	: 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.

Authorized Signatory

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

Page 1 of 1

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.

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



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

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



Government of India
Ministry of Micro, Small & Medium Enterprises
Approved Design & Manufacture Organization
Manufacturing Unit No. 20000
Certified as an Approved Manufacturer
by FSSAI for MIG / MAG Wires



contact@ushamartin.co
www.ushamartin.com



Certified as an approved manufacturer by Indian Register of Ships for MIG/MAG Wires

UNN-LA-MR-25/02, 16 Sept.

TEST REPORT No: H B225870013

Customer

: INDIAN STORES SUPPLYING CO PVT LTD, KOLKATA 700001

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

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 Test : 10-11-2020

Date of Sample Receipt

: 10-11-2020

Manufacturer

: USHA MARTIN LIMITED, INDIA

SPECIFICATION

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

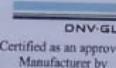
Authorized Signatory
Sandeep Jaiswal
 Sr. Manager (QA)
 Usha Martin Limited
 Ranchi, Jharkhand

XXXXXXX

Page 1 of 1



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 F/OP-3-145/01 Rev. 2, dated 28/12/2018



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

Date: 26-12-2024

Sales Order Number

: 8803000088/140

Date: 28-12-2024

Reel Number

: C516369004

IS:2266

Date of Sample Receipt

: 15-11-2024

Date of Test : 15-11-2024

Manufacturer

: USHA MARTIN LIMITED(NORTH), INDIA



CML-8167687

Applied Standard

SPECIFICATION

Item

: IS-2266/2024 (Marked)

Nominal Diameter of rope

: Steel Wire Rope

Construction

: 26 mm

Strand Construction

: 6X36 , Preformed

Grade

: 14-7+7-1

Wire Finish

: 1960

Type of Core/Lay Direction

: Ungalvd

Length of Rope

: IWRC / RHO (sZ)

Mass/Unit Length (Apprx.)

: 200 m

Lubrication

: 2.805 Kg/Mtr

Minimum Breaking Force

: A2 (P2200) / PETROLEUM LUBE

Prestretching

: 472.000 kN

: N.A.



(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



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



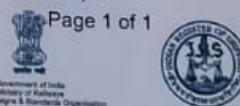
This Product has been manufactured under a management system certified by TUVNORD against ISO 9001, ISO 14001 & ISO 45001.

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



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Government of India
Ministry of Railways
Research, Training & Standards
Organisation
Mumbai

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Register of Shipping

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

TEST REPORT No: H B155380001

Customer

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

ULR - TC501620010020688P Date of Issue : 01-07-2020

Customer Order Ref

: ISSC EMAIL

Date: 04-05-2020

Sales Order Number

: 3130022340/290

Date: 23-06-2020

Reel Number

: B155380001

Date of Test : 01-07-2020

Date of Sample Receipt

: 01-07-2020

Manufacturer

: USHA MARTIN LIMITED, INDIA

SPECIFICATION

Applied Standard	: IS-2266/2019 (Marked)
Item	: Steel Wire Rope
Nominal Diameter of rope	: 22 mm
Construction	: 6X36 , Preformed
Strand Construction	: 14-7+7-7-1
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.

Authorized Signatory

Rakesh Kumar
Manager (QA)
Usha Martin Limited
Ranchi, Jharkhand

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

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Certified as an approved
Manufacturer by
American Bureau of Shipping



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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

Customer Order Ref : INDIAN STORES SUPPLYING CO PVT LTD, KOLKATA 700001
 Sales Order Number : ISSC/2025-26/221
 Reel Number : 3130053356/330
 Date of Sample Receipt : 26-11-2025
 Manufacturer : C930590002
 Date of Test : 29-12-2025
 IS-2266
 Usha Martin Limited(North), India
 CML 000916/MSI

Applied Standard : SPECIFICATION
 Item : IS-2266/2024 (Marked)
 Nominal Diameter of rope : Steel Wire Rope
 Construction : 19.00 mm
 Strand Construction : 6X36 Preformed
 Grade : 14-7+7-1
 Wire Finish : 1960
 Type of Core/Lay Direction : Ungalvd
 Length of Rope : IWRC / RHO (sZ)
 Mass/Unit Length (Apprx.) : 305 m
 Lubrication : 1.492 Kg/Mtr
 Minimum Breaking Force : A2 (P2200) / PETROLEUM LUBE
 Prestretching : 252.000 kN
 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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Page 1 of 1

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.



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 Indian Register of Shipping
 for MULMAG Wire

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



(00 911882) 353200
 (00 911882) 353201



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 TRACKE (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.

Distinguishing number or mark and description sufficient to identify the machine, chain, rope or lifting tackle. (1)	Certificate of Test and through Examination		
	Date of certificate (2)	Number of certificate (3)	Name and address of person who issued certificate (4)
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.	*****	VALID 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
 M. Tech. Civil Engineering
 Competent Person under
 the Factories Reg.1948

ACTUAL PRODUCT PHOTOS



















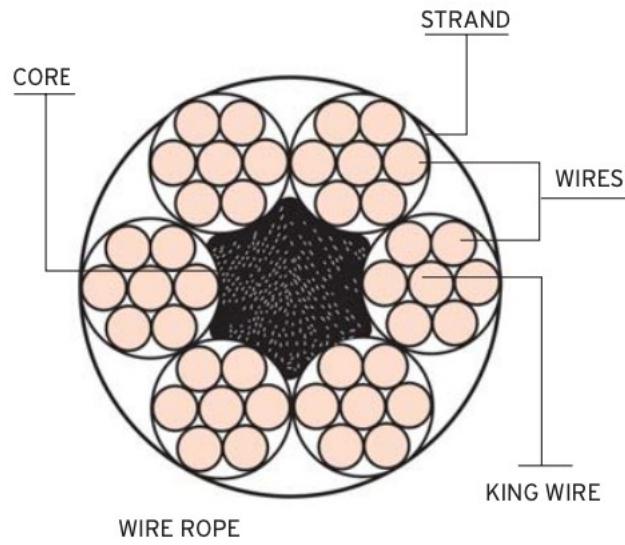




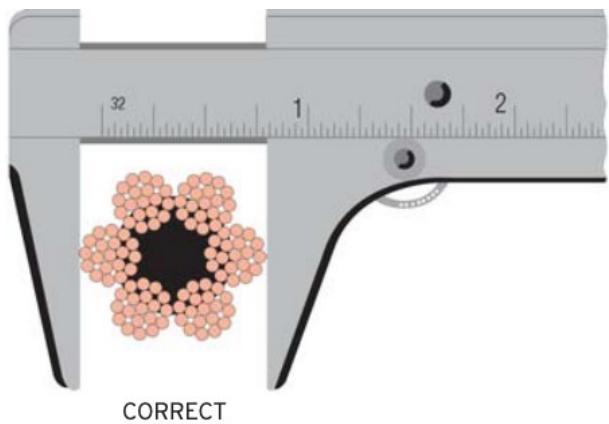




Wire Rope Components



Rope Measurement



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:

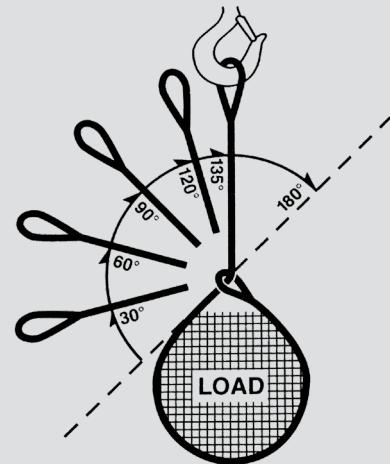
A vertical pull is where a sling is hitched between the lifting device and load in a straight line.



Choker Hitch:

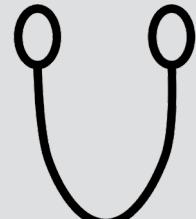
A choker hitch is where the eye on one end of the sling is passed through the eye on the other end of the sling and the sling is choked around the load being picked up. The chart below shows the capacity reduction of a sling used in a choker hitch.

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°.



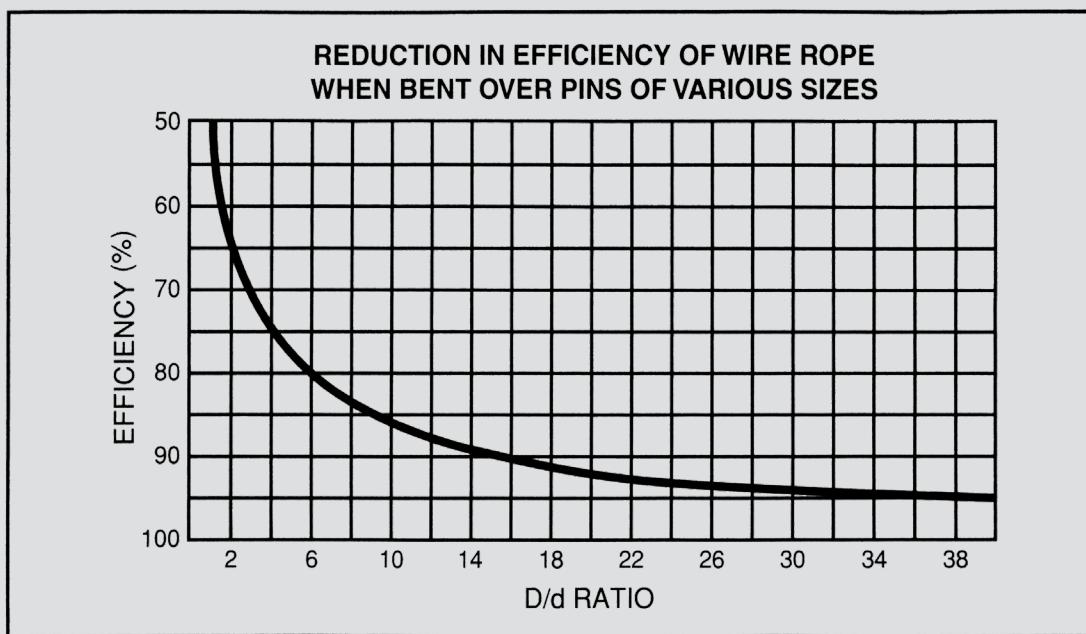


When a sling is rigged as a basket, the diameter of the bend where the sling contacts the load can affect the sling's lifting capacity. How much the lifting capacity is affected can be calculated by dividing the diameter of the bend where the rope contacts the load (represented by "D") by the diameter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



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			
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		
			O	O	O	60	45	30	A	B		
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.

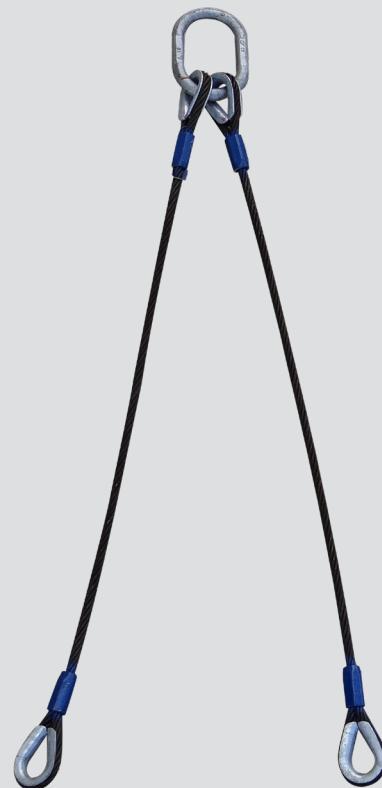




TYPE 125 EIP IWRC: Mechanical Spliced Two Leg Spreaders

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
	1	17	14	9.8	1.50	11
6x36 EIP	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	Alloy Hook	
	60	45	30	Dia. (")	WLL Tons	
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.





MARINO CORPORATION OF INDIA

TYPE 145 EIP IWRC: Mechanical Spliced Four 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	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					
			O	O	O O	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					
	O	O	O O	A	B			
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
	5/16	1 1/4	6.6	5	13	6
	3/8	1 1/2	9.5	7.1	19	7 1/2
	7/16	1 3/4	14	11	29	9
	1/2	2	19	14	38	10
	9/16	2 3/16	24	18	48	12
	5/8	2 1/2	29	22	59	12
	3/4	3	42	32	84	15
	7/8	3 1/2	57	43	114	17
	1	4	74	56	148	20
6X36 EIP	1 1/8	4 1/2	93	60	187	22
	1 1/4	5	115	86	230	25
	1 3/8	5 1/2	138	104	276	27
	1 1/2	6	164	123	328	30
	1 3/4	7	220	165	440	35
	2	8	285	214	570	40
	2 1/4	9	355	267	711	45
	2 1/2	10	434	326	869	50
	2 3/4	11	485	358	970	55
	3	12	574	424	1148	60
	3 1/2	14	761	563	1421	70
	4	16	972	719	1544	80
	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				
		O	O	O	60	45	30					
		O	O	O	▲	▲	▲					
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.

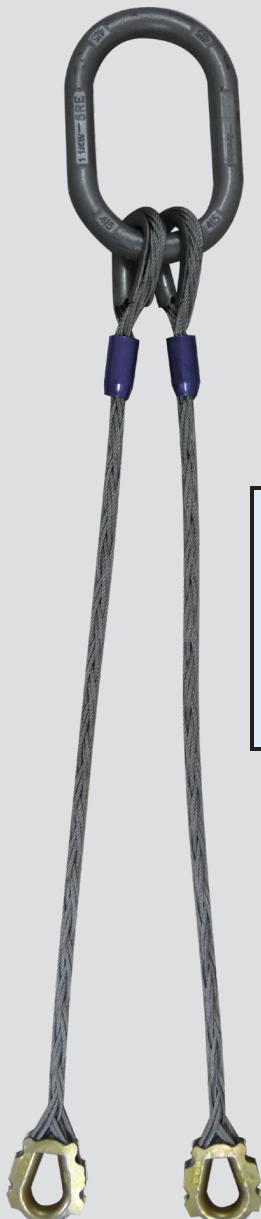
Horizontal sling angles less than 30° shall not be used.





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.



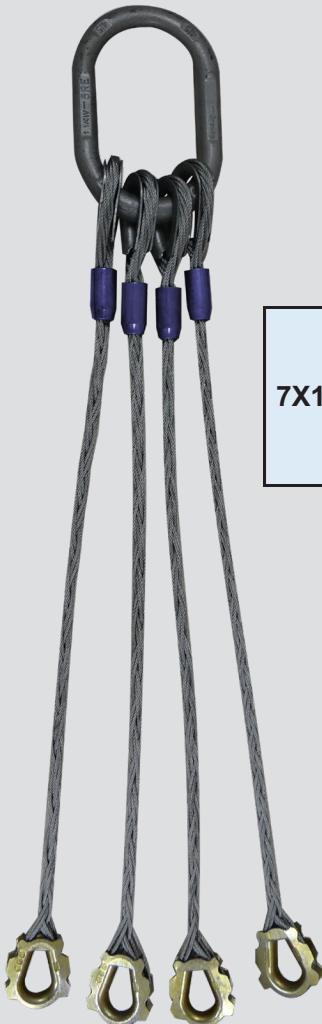
*Master Link with
Sub-Assemblies Optional*





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.





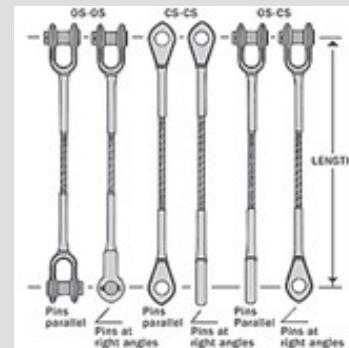
TYPE 115 EIP IWRC: Swaged Socket Assembly

Rated Capacity - US Tons



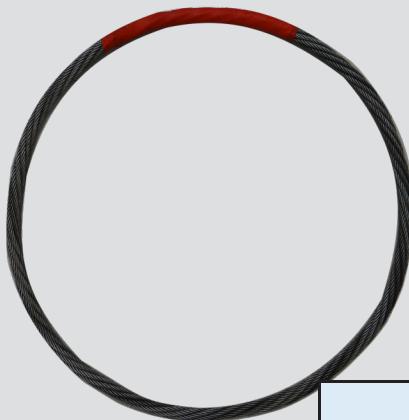
Diameter (")	Rated Capacity (Tons)	
	EIP	EEIP
1/4	0.68	0.74
5/16	1.1	1.2
3/8	1.5	1.7
7/16	2	2.2
1/2	2.7	2.9
9/16	3.4	3.7
5/8	4.1	4.5
3/4	5.9	6.5
7/8	8	8.8
1	10	11
1 1/8	13	14
1 1/4	16	18
1 3/8	19	21
1 1/2	23	25
1 3/4	31	34
2	40	43

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.	O		Basket Hitch				
		Vertical	Choker	Vertical	60°	45°	30°	
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		
	0.50	0.34	1.0	0.87	0.71	0.50	2.0	4	0.88	1.63		
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	Alloy Hook	
	60°	45°	30°			
7X7X7	1/4	0.87	0.71	0.5	0.50	1
	3/8	1.9	1.5	1.1	0.50	1 1/2
	1/2	3.2	2.6	1.9	0.75	2
	5/8	4.8	3.9	2.8	1.00	3
7X7X19	3/4	7	5.8	4.1	1.00	5
	7/8	9.4	7.6	5.4	1.25	7
	1	12	9.7	6.9	1.25	7
	1 1/8	14	12	8.3	1.50	11
	1 1/4	17	14	9.9	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°			
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	Alloy Hook	
	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		
			○	○	○	60°	45°	30°	A			
	○	○	○	○	○	60°	45°	30°	B			
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	Alloy Hook	
	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
	1	14	11	8	1.50	11
7X7X19	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	Alloy Hook
	60°	45°	30°	Diameter (")	WLL Tons
6X19 OR 6X36	1/4	1.6	1.3	0.75	1
	5/16	2.2	1.8	0.75	1
	3/8	3	2.4	0.875	1 1/2
	7/16	4	3.3	1.0	2
	1/2	5.6	4.6	1.0	3
	9/16	7.1	5.8	1.0	5
	5/8	8.6	7.1	1.0	5
	3/4	12	10	1.5	5
	7/8	16	13	1.75	5
	1	21	17	1.75	11
6X36	1 1/8	26	21	2	11
	1 1/4	31	25	2.25	15
	1 3/8	36	30	2.5	22
	1 1/2	43	35	2.5	22
	1 3/4	57	46	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
	1	28	23	16	2.0	11
6X36	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*





MARINO CORPORATION OF INDIA

भारतीय मानक
Indian Standard

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Government of India / भारत सरकार

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MICRO, SMALL & MEDIUM ENTERPRISES



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