

Strain Relief Wire Mesh Solutions

Fiber Optic Pulling Grips • Pulling Grips • Support Grips •
Strain Relief Grips • Deluxe Strain Relief Grips • I-Grips

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Strain Relief

Wire Mesh Solutions

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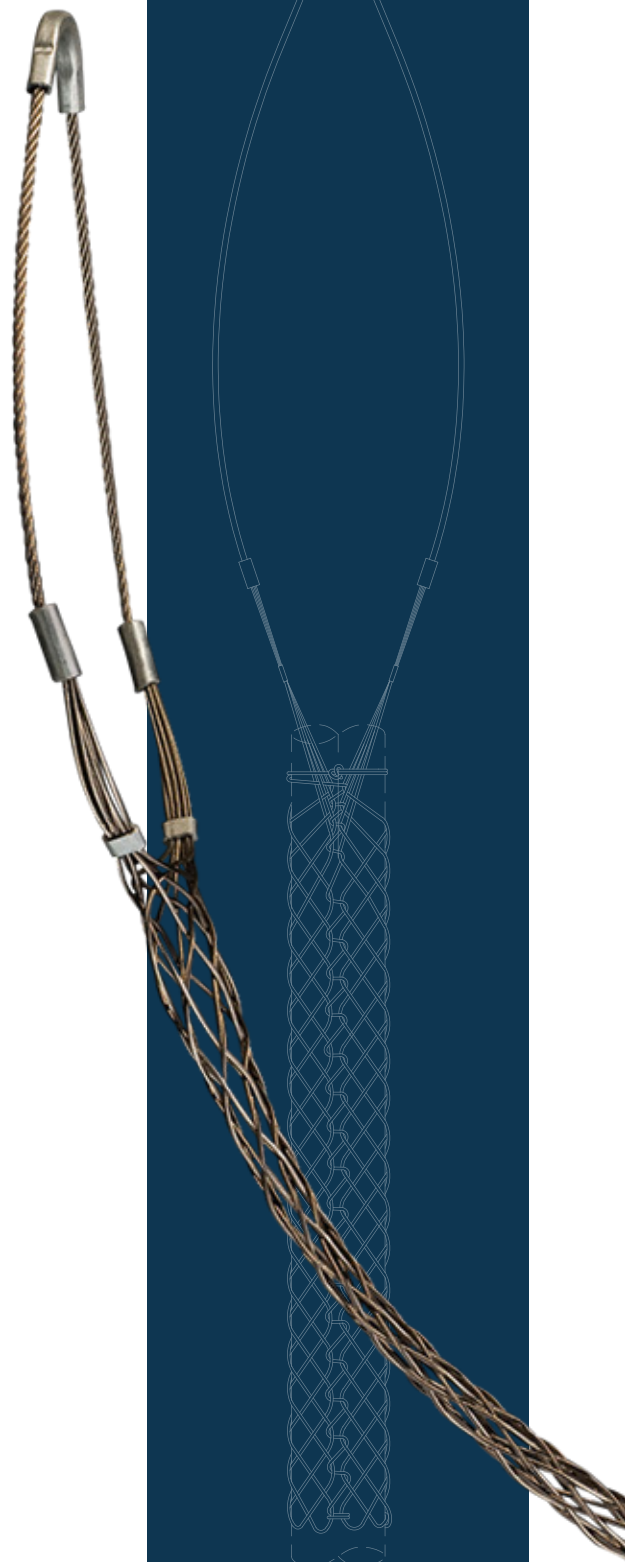
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Technical Reference

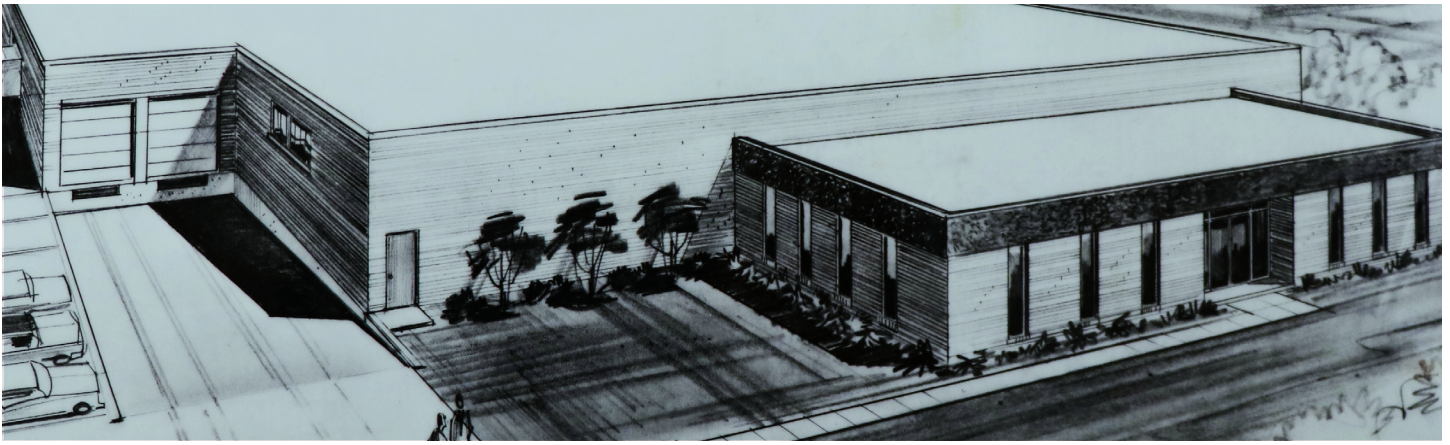
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About Ericson Manufacturing

Founded in 1918 with over a century of innovation, experience and expertise has given Ericson the unique opportunity to offer the industry a comprehensive line of products, designed with exceptional worker safety in mind. Robust design and precision manufacturing set Ericson apart for quality products offering exceptionally long service life.

Ericson prides itself on building over 98% of it's products in the North America, giving our customers a reliable and secure supply line.

Our custom engineered products are designed to meet critical customer requirements for their most challenging applications and exceed their expectations, for highly engineered quality built products.

Thank you for considering Ericson Manufacturing products.



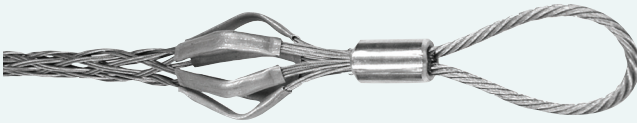
Wire Mesh Grips Overview

Introduction



Fiber Optic Pulling Grips

- Galvanized Steel Strand
- Ranges from .11 to 1.0"
- Wide protective shoulders reduce friction
- Easy to install with rounded mesh corners



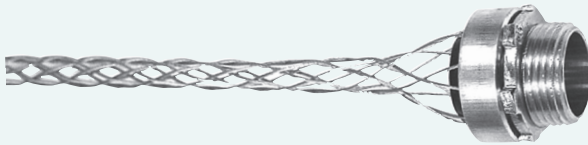
Pulling Grips

- Galvanized Steel Strand
- Ranges from .25 to 4.50"
- Broad protective shoulders reduce friction
- Easy to install with rounded mesh corners



Support Grips

- 304 Stainless Steel and Galvanized Steel Strand
- Hold and support vertical or horizontal cables, metallic and nonmetallic conduit
- Reduces stress to prevent cable pull-out
- Split mesh with rod and lace closing are designed for use with installed cables



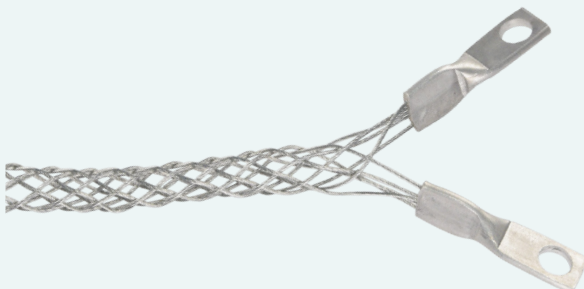
Strain Relief Grips

- Galvanized Steel Strand
- Supports cable from pull out
- Reduces tension transmitted to joints
- Prevents cable damage from arc-of-bend
- Prevents enclosure and conductor terminal damage from pull out



Deluxe Strain Relief Grips

- 304 Stainless Steel Strand
- Supports cable from pull out
- Prevents liquid and dust migration into enclosure
- Reduces tension transmitted to joints
- Prevents cable damage from arc-of-bend
- Prevents enclosure and conductor terminal damage from pull out



I-Grips

- Galvanized Steel Strand
- Easy to attach
- Controls cable arc-of-bend
- Provides heavy duty strain relief for plugs and connectors

Pulling Grips

Light Duty and Utility Grips

Ericson Pulling Grips are used for Commercial, Industrial and Utility wire pulls, both outside and through conduit, above and below ground. Closed Mesh construction is designed to be over cable bundles and reused, when safe, several times.

Designed to meet the most demanding cable pulling applications. These grips offer extremely long service life.

Flexible eyes reduce horizontal loads and attach pulling swivels easily.

Broad shoulders reduce friction to easily guide pull bundles through conduit and elbows.

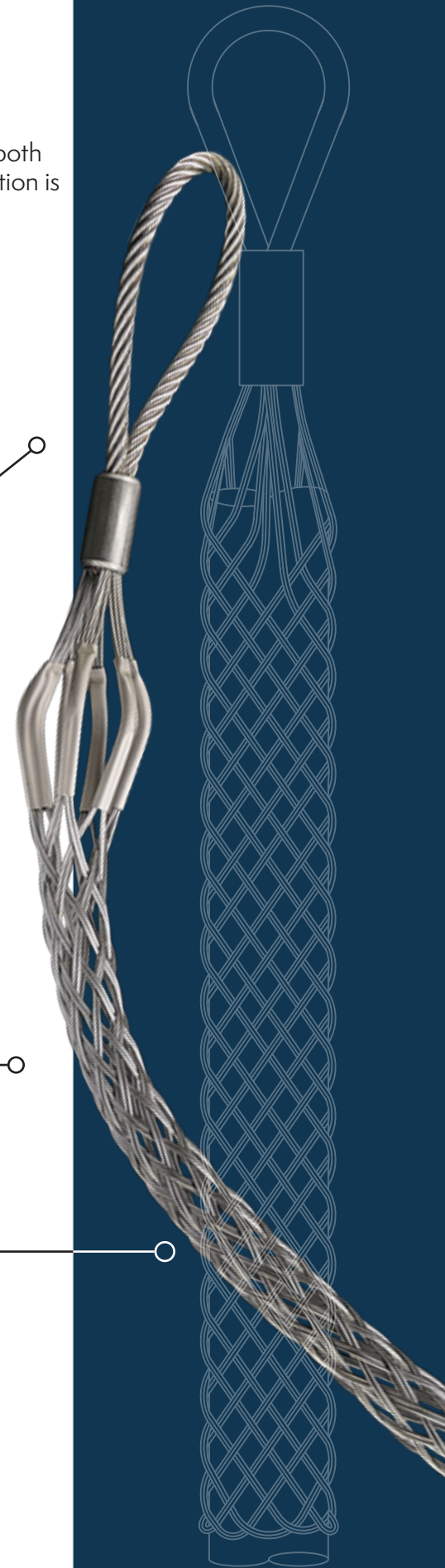
Ericson Pulling Grips use heavy duty galvanized steel, providing superior strength and product longevity.

Double weave construction evenly distributes greater internal conductor friction for secure pulls and reduced cable damage.

Product Label



All Ericson Grips are supplied with an easy to read, durable adhesive label.



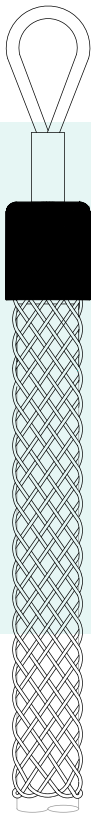
Pulling Grips

Medium, Standard Tension & Utility Duty Pulling Grips

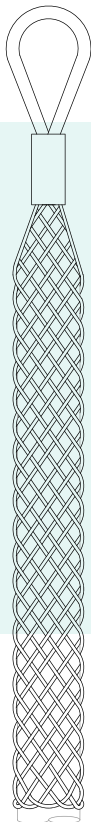
How to Select the Correct Pulling Grip	
Step 1	<p>Choose a pulling grip style that is best suited for your application.</p> <p>Fiber Optic Pulling Grips cable(s) diameter range = .11 to 1.0". Breaking strength 4250 lbs.</p> <p>Junior Pulling Grips cable diameter range = .25 to 1.25". Breaking Strength = 450 to 3900 lbs.</p> <p>Light Duty Grips cable diameter range = .50 to 4.5". Breaking Strength = 2800 to 15679 lbs.</p> <p>Utility Pulling Grips cable diameter range = 4.0 to 6.99". Breaking Strength range = 4500 to 31000 lbs.</p>
Step 2	Determine Cable or Cable Bundle Diameter
Step 3	Find the mesh grip that encompasses your cable or cable bundle diameter
Step 4	<p>IMPORTANT - estimate cable pull tension and compare this amount to the designed working load of the grip. For pulling grips, use a Safety Factor of 5.</p> <p><i>Refer to the Technical Reference section on page 28 for safety and working load considerations.</i></p>



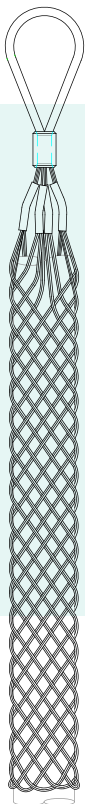
Fiber Optic



Junior



Light Duty



Utility

Pulling Grips

Fiber Optic or Communication Cable, Junior & Light Duty

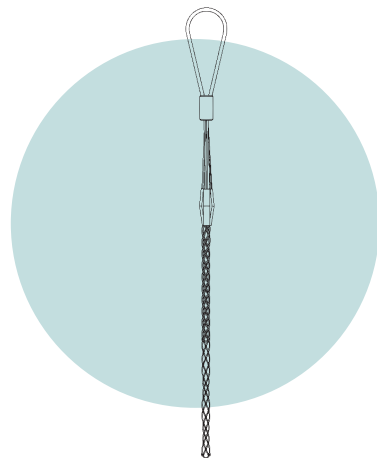
- High grade galvanized steel strand.
- Single weave with flexible eye attachment to mate with pulling apparatus.
- Fiber Optic and Communication Grips are specially designed to pull fiber optic cable(s) safely without damage to delicate cable jacket.
- Ericson Light Duty Pulling Grips are used in general underground electrical construction where pulling tensions are low.

Pulling Grips Number Structure



FO = Fiber Optic
JPG = Junior Pulling Grips

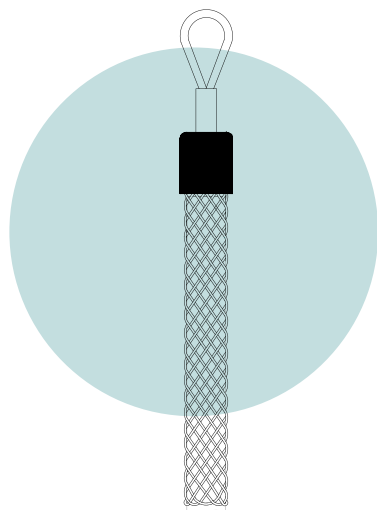
Fiber Optic and Communication Cable



Part Number	Diameter Range (in)	Lattice Length (in)	Eye Length (in)	Approx. Breaking Strength (lbs)
FO11	0.11 - 0.23	9.8	7.5	950
FO21	0.21 - 0.36	14.0	8.0	1650
FO32	0.32 - 0.49	17.6	8.2	2200
FO42	0.42 - 0.62	18.9	7.0	2750
FO53	0.53 - 0.75	22.0	8.9	3700
FO64	0.64 - 0.88	24.3	9.2	4250
FO75	0.75 - 1.00	26.2	8.6	4250
FO100	0.75 - 1.00	26.2	8.6	4250

*For shorter or longer lattice lengths, please consult factory.

Junior Pulling



Part Number	Diameter Range (in)	Lattice Length (in)	Eye Length (in)	Approx. Breaking Strength (lbs)
JPG-25	.25 - .36	5.5	2.5	450
JPG-37	.37 - .49	8.0	4.0	900
JPG-50	.50 - .63	8.5	3.5	1300
JPG-62	.62 - .74	12.0	5.0	1950
JPG-75	.75 - .99	12.0	5.0	2800
JPG-100	1.00 - 1.25	12.5	6.0	3900

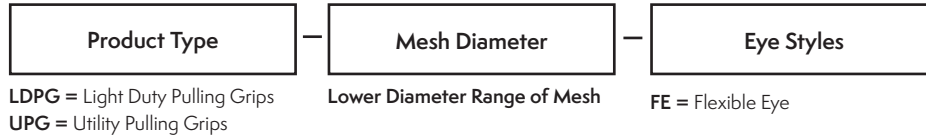
*For shorter or longer lattice lengths, please consult factory.

Pulling Grips

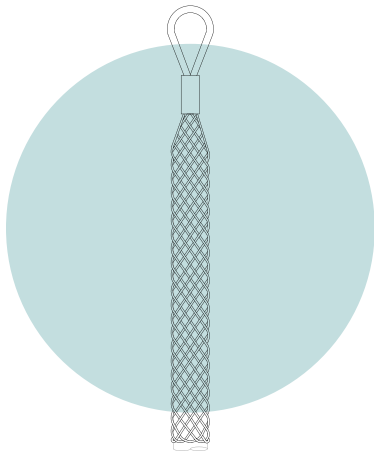
Light Duty & Utility Pulling Grips

- High strength galvanized steel strand.
- Pulling Grips are double weave for added strength with greater mesh contact on the cable to handle longer or heavier pulling jobs.

Pulling Grips Number Structure



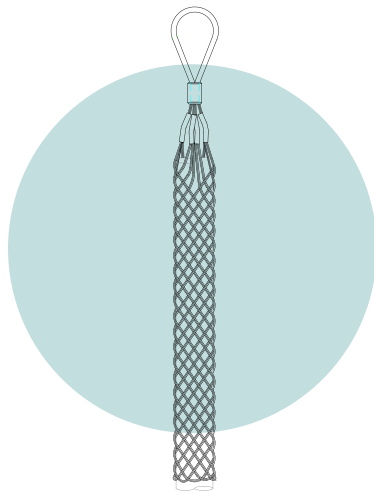
Light Duty Pulling Grips



Part Number	Diameter Range (in)	Lattice Length (in)*	Eye Length (in)	Approx. Breaking Strength (lbs)
LDPG-050	.50 - .75	14.5	5.0	2240
LDPG-075	.75 - 1.00	18.0	5.0	5600
LDPG-100	1.00 - 1.50	16.0	5.5	8100
LDPG-150	1.50 - 2.00	19.3	7.5	11200
LDPG-200	2.00 - 2.50	19.0	6.0	11200
LDPG-250	2.50 - 3.50	20.0	6.5	13439
LDPG-350	3.50 - 4.50	27.5	7.5	15679

*For shorter or longer lattice lengths, please consult factory.

Utility Pulling Grip



Part Number	Diameter Range (in)	Lattice Length (in)*	Eye Length (in)	Approx. Breaking Strength (lbs)
UPG-50-FE	.50 - .63	20.5	9.0	4500
UPG-62-FE	.63 - .75	23.5	8.0	5600
UPG-75-FE	.75 - 1.00	22.0	11.0	6800
UPG-100-FE	1.00 - 1.50	19.5	11.5	9600
UPG-150-FE	1.50 - 2.00	18.0	14.0	16400
UPG-200-FE	2.00 - 2.50	21.7	14.5	18500
UPG-250-FE	2.50 - 3.00	20.0	15.0	24500
UPG-300-FE	3.00 - 3.50	16.4	19.0	24500
UPG-350-FE	3.50 - 4.00	21.8	17.3	31000

*For shorter or longer lattice lengths, please consult factory.

Support Grips

Standard Support, Heavy Duty Support, Service Drop, and Bus Drops

Solid eye assembly provide superior reinforcement support for cables or hoses hung in a vertical, sloping or horizontal positions.
(See various styles for specification application)

Various eye styles are available for your specific application - **Single, Double, Offset and Universal Bale.**

Heavy Duty Stainless Steel Weave ensures long life in liquid strewn applications.

Mesh Style:

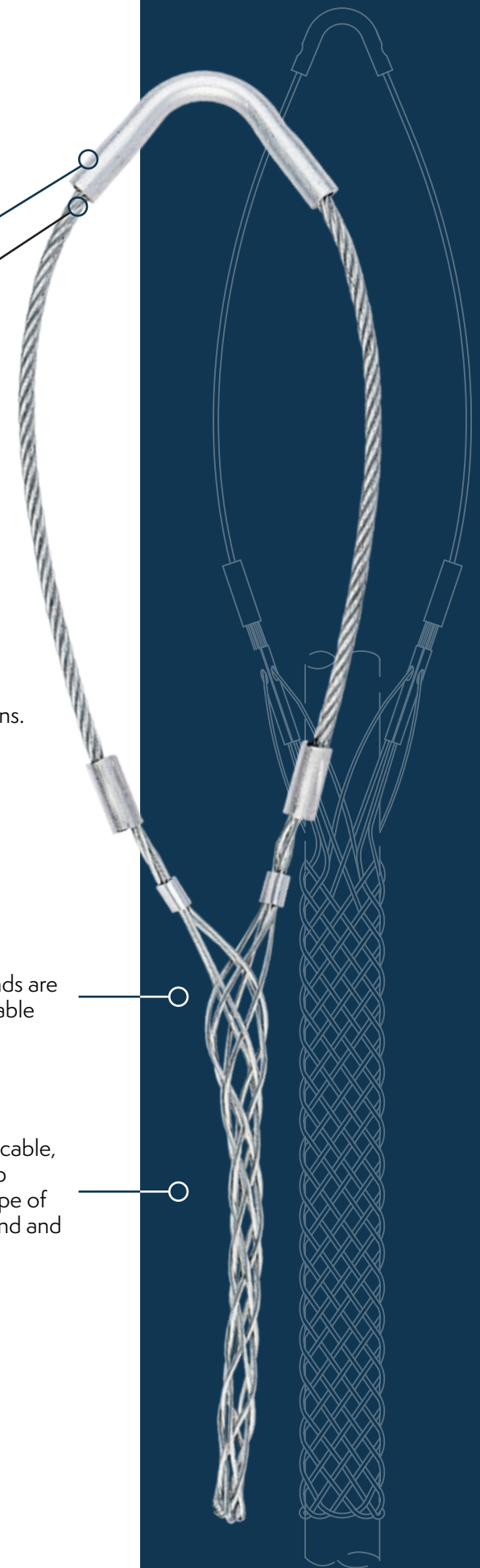
Various mesh styles are available for a wide range of supporting applications. Closed mesh are available when the cable or hose ends are available for installation. Split mesh (Lace or Rod Closing) are available when the ends are not available or an existing installation.

An endless mesh weave provides installation ease onto the cable, allows for adjustments, and provides a reusable support grip without the need for special skills or tools. Conforms to shape of cable or object being supported and permits cable to expand and contract without loss of support.

Product Label



All Ericson Grips are supplied with an easy to read, durable adhesive label.



Support Grip Application & Selection Guide

Standard Support, Heavy Duty Support, Service Drop, and Bus Drop

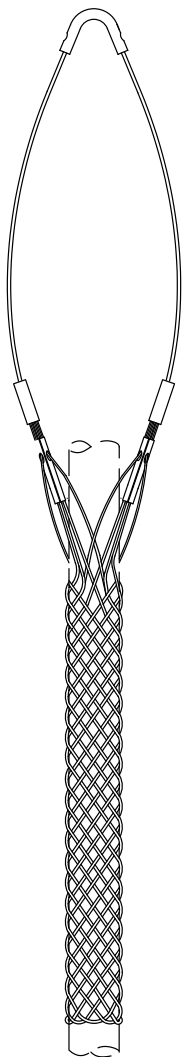
How to Select the Correct Support Grip	
Step 1	Refer to the chart below to determine the Support Grip style that is best suited for your application.
Step 2	Where available, select an Eye style that is best suited for your supporting application
Step 3	Find the mesh grip size that encompasses your cable diameter.
Step 4	<p>Select Mesh Style below. Be aware that closed mesh offer the greatest support with the cable end is available. Rod closing or Lace Closing are available for installation after the cord is installed. For Support Grips, use a Safety Factory of 10.</p> <p><i>Refer to the Technical Reference section on page 28 for safety and working load considerations.</i></p>
Step 5	<p>IMPORTANT!</p> <p>Estimate the tension to be put on the grip, establish the working load you require and compare this to the listed approximate breaking strength of the grip to insure that the grip will be strong enough. For Support Grips, use a Safety Factor of 10. Refer to Technical Reference section for safety and working load considerations.</p>

Support Grip Styles	
Standard Support Grips	Support Vertical Runs to 99 ft. Loads to 600lbs. Electrical cables must be supported or their dead weight can cause excessive strain or pullout. (Diameter Range = .5 to 3.99" and Breaking Strength Range = 500 to 4900 lbs.)
Heavy Duty Grips	Support Vertical Runs over 100 ft. Loads Over 600lbs. Electrical cables must be supported or their dead weight can cause excessive strain or pullout. (Diameter Range = .75 to 4.49" and Breaking Strength Range = 2820 to 12070 lbs.)
Service Drop	Light Duty to Support Service Entrance Cable in sloping, vertical, or horizontal positions. (Diameter Range = .23 to 1.25" and Breaking Strength Range = 290 to 1790 lbs.)
Bus Drop	Light Duty Support, Indoors Only, On Bus Drop Cable that relieves tension and absorbs vibration which protects the cable. Safety Springs can be used in conjunction to relieve sudden strain on cord or cable overhead systems. (Diameter Range = .22 to 1.25" and Breaking Strength Range = 350 to 1800 lbs.)

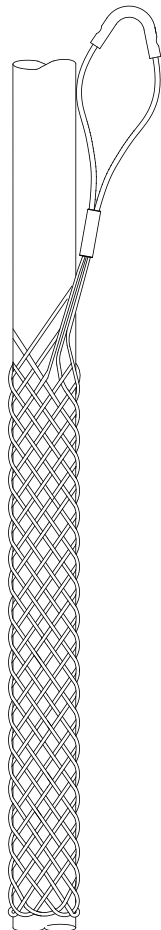
Support Grip Eyes Styles

Closed Mesh, Offset, Universal Bale, and Dual Eye Split Mesh

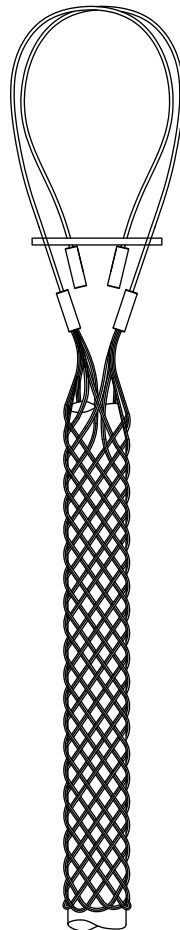
Eye Styles	
Single Eye	Designed for vertical support applications
Offset	Designed when a cable is oriented in an angle or horizontal, often referred to as slack grips.
Universal Bale	Designed for use with a horizontal support - beam, etc., that the bales wrap around for support.
Dual Eye Split Mesh	Designed for installations where the cable or hose is already installed and the ends are not available. There are two types - Lace Closing , employing lace to weave and close the mesh upon the cable or hose. Rod Closing , where a rod is used to loop between the mesh peaks and close the mesh around the cable or hose. In either application, the bottom of the mesh is secured with a clamp and tape.



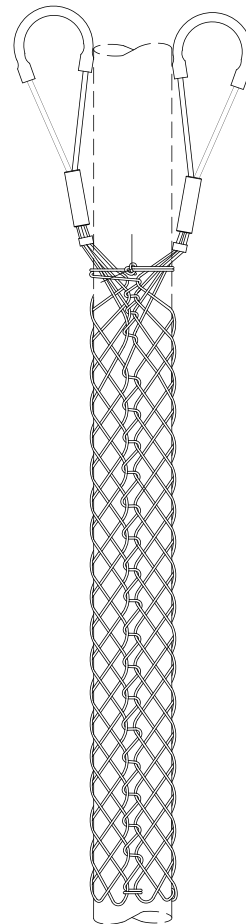
Single Eye



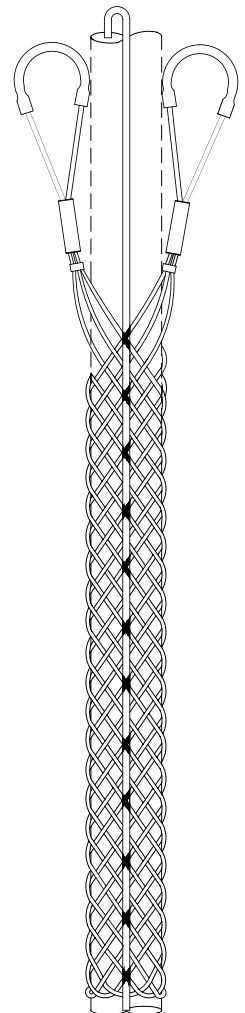
Offset



Universal Bale



Lace Closing
Dual Eye

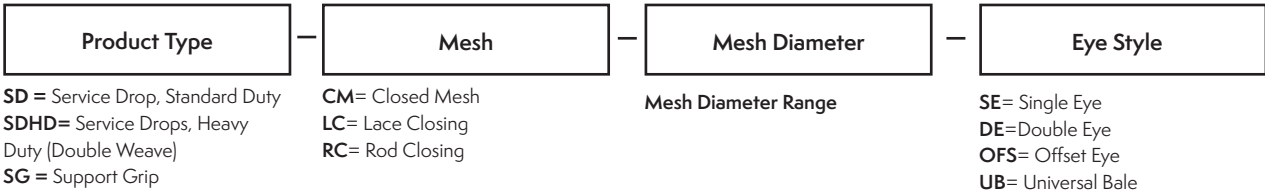


Rod Closing
Dual Eye

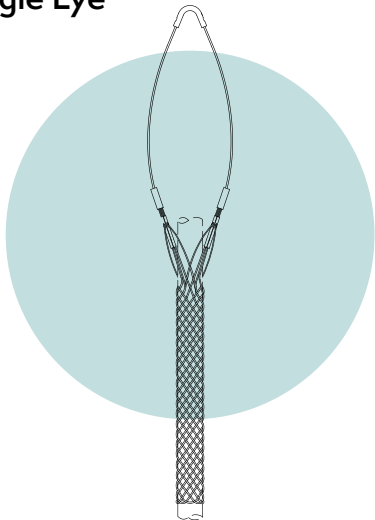
Support Grips Standard & Heavy Duty

Service Drop Wire Mesh Grips - 304 Stainless Steel

Support Grip Number Structure

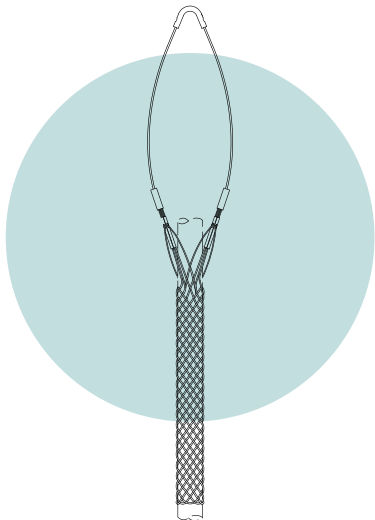


Single Eye



Part Number	Range (in)	Eye Length (in)	Lattice Length (in)	Approx. Breaking Strength (lbs)	Listing
SD-23-SE	0.22 - 0.32	4.0	4.0	100	cULus
SD-32-SE	0.30 - 0.43	4.5	4.0	260	cULus
SD-43-SE	0.41 - 0.56	6.0	5.0	550	cULus
SD-56-SE	0.53 - 0.73	6.0	6.0	1000	cULus
SD-73-SE	0.70 - 0.85	6.5	6.5	1400	cULus
SD-85-SE	0.82 - 1.00	7.5	8.0	1400	cULus
SD-100-SE	0.96 - 1.25	9.0	8.5	1400	cULus

Heavy Duty, Single Eye

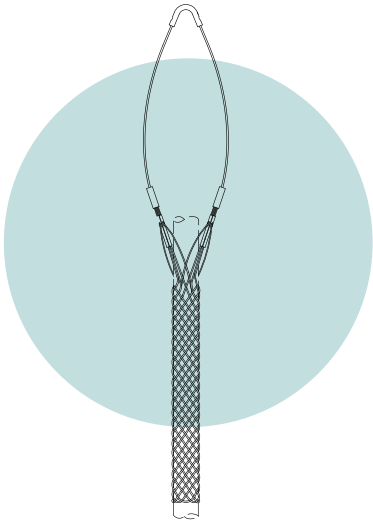


Part Number	Range (in)	Eye Length (in)	Lattice Length (in)	Approx. Breaking Strength (lbs)	Listing
SDHD-23-SE	0.22 - 0.32	8.5	5.5	650	cULus
SDHD-32-SE	0.30 - 0.43	9.0	5.5	1000	cULus
SDHD-43-SE	0.41 - 0.56	8.5	6.0	1100	cULus
SDHD-56-SE	0.53 - 0.73	8.5	6.0	1100	cULus
SDHD-73-SE	0.70 - 0.85	9.0	8.0	1900	cULus
SDHD-85-SE	0.82 - 1.00	9.0	8.0	1900	cULus
SDHD-100-SE	0.96 - 1.25	8.5	9.0	1900	cULus

Support Grip Standard Duty

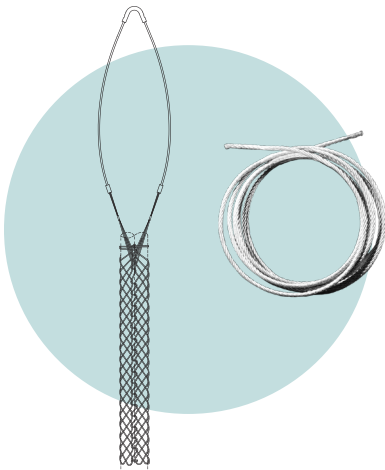
Support Grip- Single Eye - 304 Stainless Steel

Single Eye, Closed Mesh



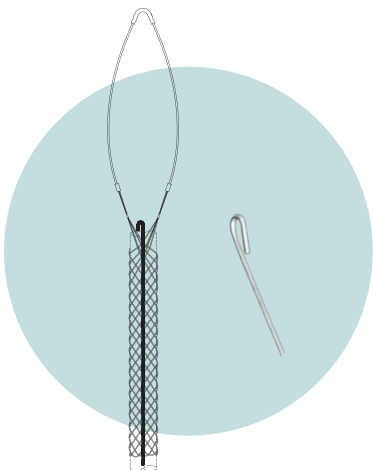
Part Number	Range (in)	Eye Length (in)	Lattice Length (in)	Approx. Breaking Strength (lbs)	Listing
SG-CM-050-SE	0.50 - 0.63	7.1	10	567	cULus
SG-CM-062-SE	0.63 - .0.75	8.5	10	890	cULus
SG-CM-075-SE	0.75 - 1.00	7.9	13.5	1,040	cULus
SG-CM-100-SE	1.00 - 1.25	9.4	13.5	1,700	cULus
SG-CM-125-SE	1.25 - 1.50	9.4	15	1,700	cULus
SG-CM-150-SE	1.50 - 1.75	10.4	17.5	1,700	cULus
SG-CM-175-SE	1.75 - 2.00	12.2	19.5	2,300	cULus
SG-CM-200-SE	2.00 - 2.50	14.3	22.5	3,400	cULus
SG-CM-250-SE	2.50 - 3.00	17	25	3,400	cULus
SG-CM-300-SE	3.00 - 3.50	15.4	29	5,000	cULus
SG-CM-350-SE	3.50 - 4.00	19.7	34.5	5,000	cULus

Single Eye, Split Mesh Lace Closing



Part Number	Range (in)	Eye Length (in)	Lattice Length (in)	Approx. Breaking Strength (lbs)
SG-LC-050-SE	0.50 - 0.63	7	10	530
SG-LC-062-SE	0.63 - .0.75	7	10	790
SG-LC-075-SE	0.75 - 1.00	9	13	1,020
SG-LC-100-SE	1.00 - 1.25	9.5	13.5	1,610
SG-LC-125-SE	1.25 - 1.50	10	15	1,610
SG-LC-150-SE	1.50 - 1.75	12	17	1,610
SG-LC-175-SE	1.75 - 2.00	12	20	2,150
SG-LC-200-SE	2.00 - 2.50	15	21	3,260
SG-LC-250-SE	2.50 - 3.00	17	24	3,260
SG-LC-300-SE	3.00 - 3.50	19	26	4,900
SG-LC-350-SE	3.50 - 4.00	21	29	4,900

Single Eye, Rod Closing

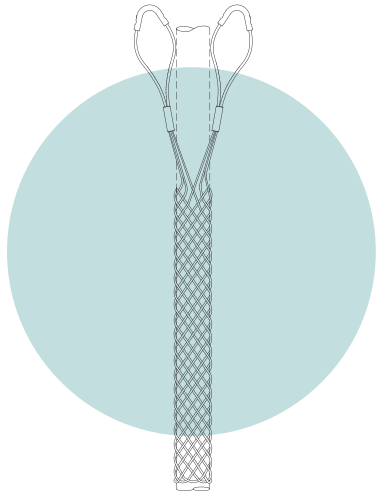


Part Number	Range (in)	Eye Length (in)	Lattice Length (in)	Approx. Breaking Strength (lbs)
SG-RC-050-SE	0.50 - 0.63	7	10	567
SG-RC-062-SE	0.63 - 0.75	8	10	890
SG-RC-075-SE	0.75 - 1.00	8	13	1,040
SG-RC-100-SE	1.00 - 1.25	9	13.5	1,700
SG-RC-125-SE	1.25 - 1.50	10	15	1,700
SG-RC-150-SE	1.50 - 1.75	12	16.5	2,300
SG-RC-175-SE	1.75 - 2.00	14	20	3,400
SG-RC-200-SE	2.00 - 2.50	16	21	3,400
SG-RC-250-SE	2.50 - 3.00	18	24	5,000
SG-RC-300-SE	3.00 - 3.50	19	26	5,000
SG-RC-350-SE	3.50 - 4.00	25	29	5,000

Support Grips

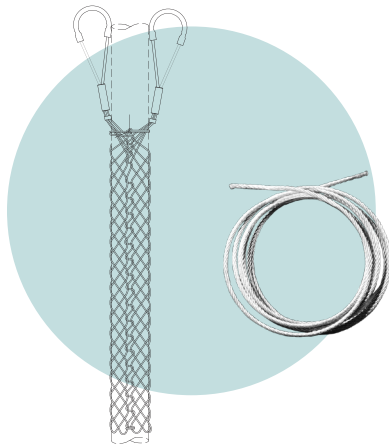
Standard Duty - Double Eye - 304 Stainless Steel

Double Eye Closed Mesh



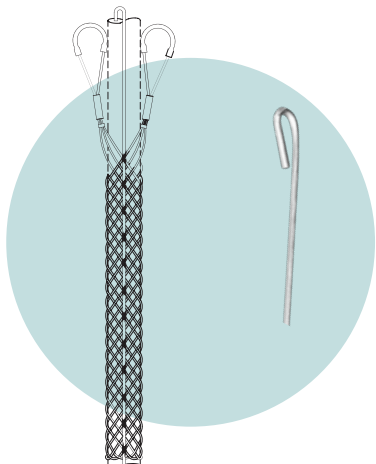
Part Number	Range (in)	Eye Length (in)	Lattice Length (in)	Approx. Breaking Strength (lbs)	Listing
SG-CM-050-DE	0.50 - 0.63	6.1	10.2	512	cULus
SG-CM-062-DE	0.63 - 0.75	6.1	10.4	740	cULus
SG-CM-075-DE	0.75 - 1.00	6.1	13.6	1,000	cULus
SG-CM-100-DE	1.00 - 1.25	7.5	13.6	1,540	cULus
SG-CM-125-DE	1.25 - 1.50	7.8	15.2	1,540	cULus
SG-CM-150-DE	1.50 - 1.75	7.9	17.7	2,010	cULus
SG-CM-175-DE	1.75 - 2.00	8.5	19.3	2,300	cULus
SG-CM-200-DE	2.00 - 2.50	9.4	22.6	3,230	cULus
SG-CM-250-DE	2.50 - 3.00	9.5	25.1	4,000	-
SG-CM-300-DE	3.00 - 3.50	11.6	29.2	4,000	-
SG-CM-350-DE	3.50 - 4.00	13.1	34.6	4,000	-

Double Eye, Lace Closing



Part Number	Range (in)	Eye Length (in)	Lattice Length (in)	Approx. Breaking Strength (lbs)
SG-LC-050-DE	0.50 - 0.63	4	10	530
SG-LC-062-DE	0.63 - .0.75	4	10	790
SG-LC-075-DE	0.75 - 1.00	4	13	1,020
SG-LC-100-DE	1.00 - 1.25	5	14	1,610
SG-LC-125-DE	1.25 - 1.50	5	15	1,610
SG-LC-150-DE	1.50 - 1.75	5	17	1,610
SG-LC-175-DE	1.75 - 2.00	6	19	2,150
SG-LC-200-DE	2.00 - 2.50	6	21	3,260
SG-LC-250-DE	2.50 - 3.00	6	23	3,260
SG-LC-300-DE	3.00 - 3.50	8	25	4,900
SG-LC-350-DE	3.50 - 4.00	8	27	4,900

Double Eye Rod Closing

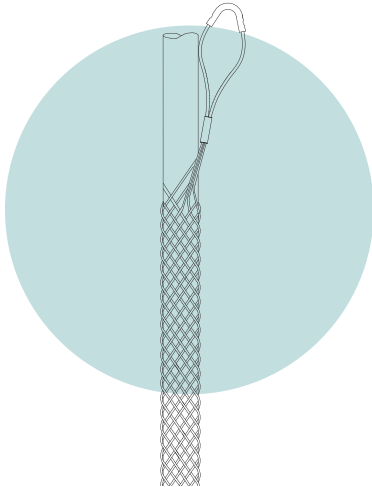


Part Number	Range (in)	Eye Length (in)	Lattice Length (in)	Approx. Breaking Strength (lbs)
SG-RC-050-DE	0.50 - 0.63	4	8.5	790
SG-RC-062-DE	0.63 - 0.75	4	8.5	790
SG-RC-075-DE	0.75 - 1.00	4	10.5	1,020
SG-RC-100-DE	1.00 - 1.25	5	12.5	1,610
SG-RC-125-DE	1.25 - 1.50	5	14.5	1,610
SG-RC-150-DE	1.50 - 1.75	5	15.5	1,610
SG-RC-175-DE	1.75 - 2.00	6	16.5	2,150
SG-RC-200-DE	2.00 - 2.50	6	19.5	3,260
SG-RC-250-DE	2.50 - 3.00	6	21.5	3,260
SG-RC-300-DE	3.00 - 3.50	8	23.5	5,750
SG-RC-350-DE	3.50 - 4.00	6	25.5	5,750

Support Grips

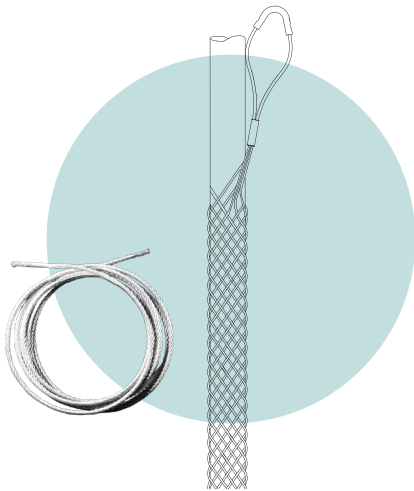
Standard Duty - Offset Eye - 304 Stainless Steel

Offset Eye, Closed Mesh



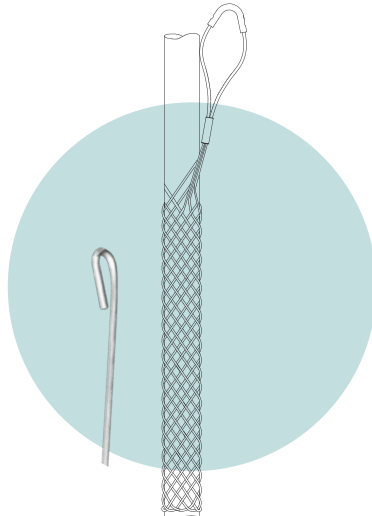
Part Number	Range (in)	Eye Length (in)	Lattice Length (in)	Approx. Breaking Strength (lbs)	Listing
SG-CM-050-OFS	0.50 - 0.63	6.8	9.7	567	cULus
SG-CM-062-OFS	0.63 - 0.75	7.9	9.7	890	cULus
SG-CM-075-OFS	0.75 - 1.00	7.1	13	1,040	cULus
SG-CM-100-OFS	1.00 - 1.25	9.3	13.5	1,700	cULus
SG-CM-125-OFS	1.25 - 1.50	10.4	15	1,700	cULus
SG-CM-150-OFS	1.50 - 1.75	11.5	16.5	1,700	cULus
SG-CM-175-OFS	1.75 - 2.00	12.8	20	2,300	cULus
SG-CM-200-OFS	2.00 - 2.50	15.2	21	2,300	cULus
SG-CM-250-OFS	2.50 - 3.00	16.6	24	3,400	-
SG-CM-300-OFS	3.00 - 3.50	18.2	26	5,000	-
SG-CM-350-OFS	3.50 - 4.00	20.3	29	5,000	-

Offset Eye, Lace Closing



Part Number	Range (in)	Eye Length (in)	Lattice Length (in)	Approx. Breaking Strength (lbs)
SG-LC-050-OFS	0.50 - 0.63	5	10	500
SG-LC-062-OFS	0.63 - 0.75	5.5	10	750
SG-LC-075-OFS	0.75 - 1.00	5.5	13	950
SG-LC-100-OFS	1.00 - 1.25	6.5	14	1,500
SG-LC-125-OFS	1.25 - 1.50	7.5	15	1,500
SG-LC-150-OFS	1.50 - 1.75	7	17	1,500
SG-LC-175-OFS	1.75 - 2.00	9	19	2,000
SG-LC-200-OFS	2.00 - 2.50	11.5	21	2,150
SG-LC-250-OFS	2.50 - 3.00	11	23	2,150
SG-LC-300-OFS	3.00 - 3.50	13	25	3,800
SG-LC-350-OFS	3.50 - 4.00	15	27	3,800

Offset Eye, Rod Closing

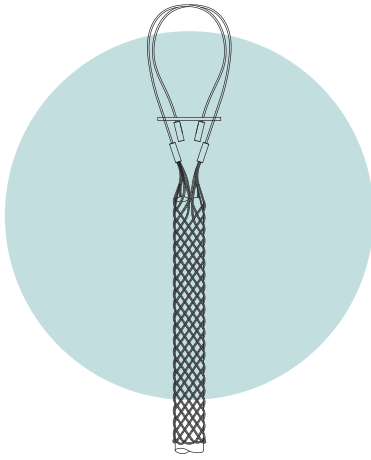


Part Number	Range (in)	Eye Length (in)	Lattice Length (in)	Approx. Breaking Strength (lbs)
SG-RC-050-OFS	0.50 - 0.63	4	7	500
SG-RC-062-OFS	0.63 - 0.75	4	9	750
SG-RC-075-OFS	0.75 - 1.00	4	10	950
SG-RC-100-OFS	1.00 - 1.25	5	12	1,500
SG-RC-125-OFS	1.25 - 1.50	5	14	1,500
SG-RC-150-OFS	1.50 - 1.75	5	15	1,500
SG-RC-175-OFS	1.75 - 2.00	6	16	2,000
SG-RC-200-OFS	2.00 - 2.50	9	19	3,100
SG-RC-250-OFS	2.50 - 3.00	9	20	3,100
SG-RC-300-OFS	3.00 - 3.50	11	21	4,300
SG-RC-350-OFS	3.50 - 4.00	11	21	4,300

Support Grips

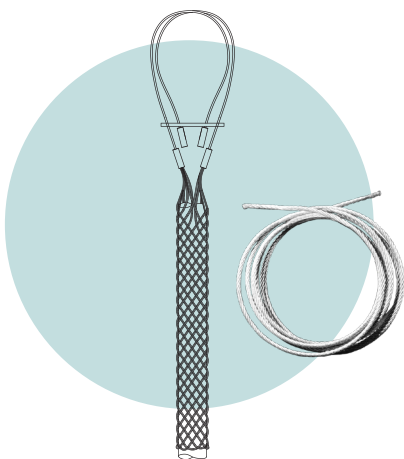
Standard Duty - Universal Bale - 304 Stainless Steel

Universal Bale, Closed Mesh



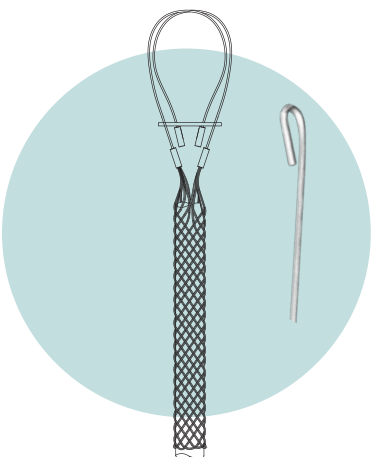
Part Number	Range (in)	Bale Length (in)	Lattice Length (in)	Approx. Breaking Strength (lbs)	Listing
SG-CM-050-UB	0.50 - 0.63	19	10	530	cULus
SG-CM-062-UB	0.63 - 0.75	18	10.5	790	cULus
SG-CM-075-UB	0.75 - 1.00	19	13.5	1,020	cULus
SG-CM-100-UB	1.00 - 1.25	20	13.5	1,610	cULus
SG-CM-125-UB	1.25 - 1.50	20	15	1,610	cULus
SG-CM-150-UB	1.50 - 1.75	20	17.5	1,610	
SG-CM-175-UB	1.75 - 2.00	21	19.5	2,150	
SG-CM-200-UB	2.00 - 2.50	22.5	22.5	3,260	
SG-CM-250-UB	2.50 - 3.00	22.5	25	3,260	

Universal Bale, Lace Closing



Part Number	Range (in)	Eye Length (in)	Lattice Length (in)	Approx. Breaking Strength (lbs)
SG-LC-050-UB	0.50 - 0.63	18	10	530
SG-LC-062-UB	0.63 - 0.75	18	10	790
SG-LC-075-UB	0.75 - 1.00	18	13.5	1,020
SG-LC-100-UB	1.00 - 1.25	18	13.5	1,610
SG-LC-125-UB	1.25 - 1.50	18	15	1,610
SG-LC-150-UB	1.50 - 1.75	18	17.5	1,610
SG-LC-175-UB	1.75 - 2.00	18	19.5	2,150
SG-LC-200-UB	2.00 - 2.50	18	22.5	3,260
SG-LC-250-UB	2.50 - 3.00	18	25	3,260
SG-LC-300-UB	3.00 - 3.50	18	25	4,900
SG-LC-350-UB	3.50 - 4.00	18	27	4,900

Universal Bale, Rod Closing

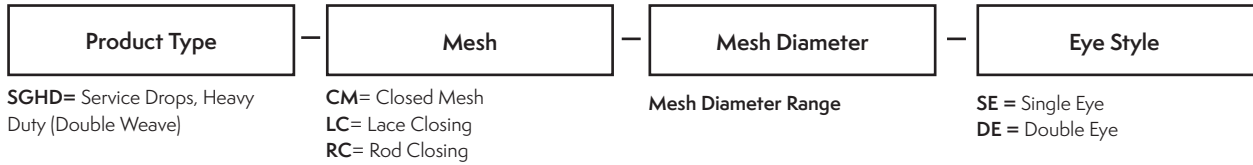


Part Number	Range (in)	Eye Length (in)	Lattice Length (in)	Approx. Breaking Strength (lbs)
SG-RC-050-UB	0.50 - 0.63	18	8.5	790
SG-RC-062-UB	0.63 - 0.75	18	8.5	790
SG-RC-075-UB	0.75 - 1.00	18	10.5	1,020
SG-RC-100-UB	1.00 - 1.25	18	12.5	1,610
SG-RC-125-UB	1.25 - 1.50	18	14.5	1,610
SG-RC-150-UB	1.50 - 1.75	18	15.5	1,610

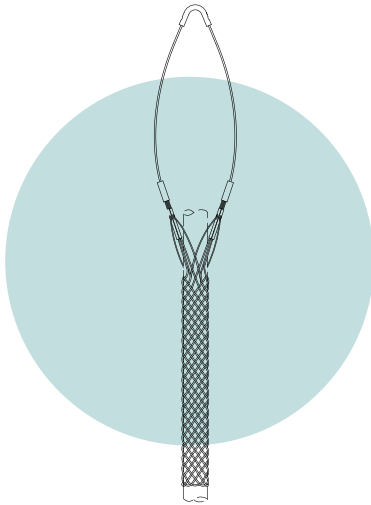
Support Grips

Heavy Duty Support Grips - 304 Stainless Steel

Support Grips Number Structure

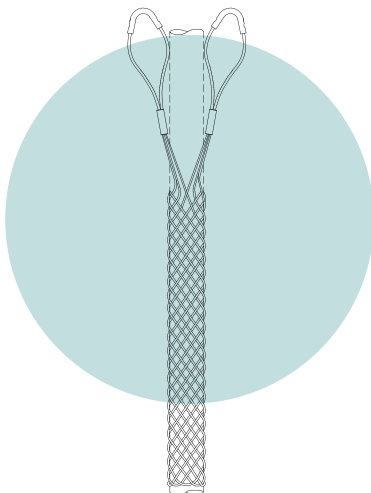


Heavy Duty, Closed Mesh, Single Eye



Part Number	Range (in)	Eye Length (in)	Lattice Length (in)	Approx. Breaking Strength (lbs)
SGHD-CM-050-SE	0.50 - 0.63	7	10	1,370
SGHD-CM-063-SE	0.63 - 0.75	7.5	10.5	2,081
SGHD-CM-075-SE	0.75 - 1.00	7.7	13.5	2,081
SGHD-CM-100-SE	1.00 - 1.25	11.6	15	2,681
SGHD-CM-125-SE	1.25 - 1.50	13	17.5	4,490
SGHD-CM-150-SE	1.50 - 1.75	15	19.5	4,490
SGHD-CM-175-SE	1.75 - 2.00	17	21	5,002
SGHD-CM-200-SE	2.00 - 2.50	19	21.5	8,942
SGHD-CM-250-SE	2.50 - 3.00	21	22.5	8,942
SGHD-CM-300-SE	3.00 - 3.50	23	27	13,424
SGHD-CM-350-SE	3.50 - 4.00	28	32.5	13,420

Heavy Duty, Closed Mesh, Double Eye



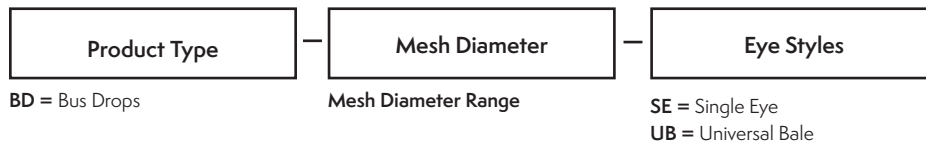
Part Number	Range (in)	Eye Length (in)	Lattice Length (in)	Approx. Breaking Strength (lbs)	Listing
SGHD-CM-050-DE	0.50 - 0.63	6	12	1,370	cULus
SGHD-CM-063-DE	0.63 - 0.75	7	11	2,080	cULus
SGHD-CM-075-DE	0.75 - 1.00	7	13.5	2,080	cULus
SGHD-CM-100-DE	1.00 - 1.25	7	22	2,670	cULus
SGHD-CM-125-DE	1.25 - 1.50	8	25	4,490	cULus
SGHD-CM-150-DE	1.50 - 1.75	8	27	4,490	cULus
SGHD-CM-175-DE	1.75 - 2.00	9	29	5,000	cULus
SGHD-CM-200-DE	2.00 - 2.50	9	28	8,940	cULus
SGHD-CM-250-DE	2.50 - 3.00	11	30	8,940	
SGHD-CM-300-DE	3.00 - 3.50	13	34	12,000	
SGHD-CM-350-DE	3.50 - 4.00	14	38	12,000	

Support Grips

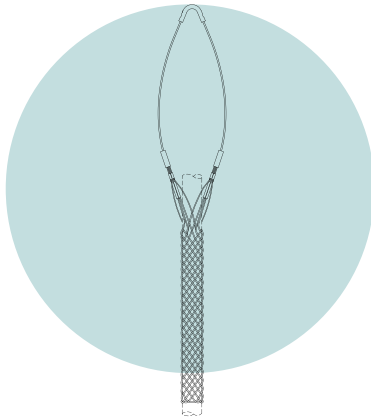
Bus Drop Grips - High Strength Galvanized Steel Strand

- Ericson Bus Drop Grips are easily installed and absorb tension, vibration, and pull with no damage.
- They support flexible cord or Bus Drop Cable at bus duct or industrial areas.
- Universal Bale Support Grips are designed to be supported by a structure the bales wrap around and reconnect to the grip, near the bale, for support.
- Bus Drop Safety Springs are often used to absorb vibration and stress in vertical applications or remove slack and stress in horizontal applications

Bus Drops Number Structure



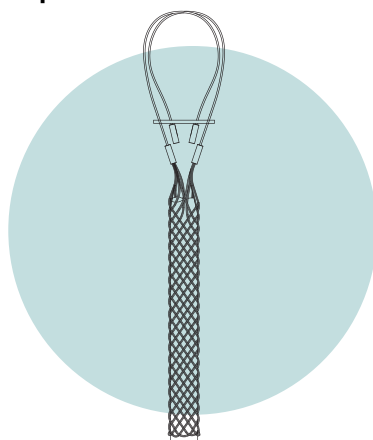
Bus Drops, Single Eye



Part Number	Range (in)	Eye Length (in)	Lattice Length (in)	Approx. Breaking Strength (lbs)	Listing
BD-022-SE	0.22 - 0.32	4.0	4.0	350	cULus
BD-030-SE	0.30 - 0.43	4.5	4.0	450	cULus
BD-041-SE	0.41 - 0.56	6.0	5.0	550	cULus
BD-053-SE	0.53 - 0.73	6.0	6.0	1000	cULus
BD-070-SE	0.70 - 0.85	6.5	6.5	1400	cULus
BD-082-SE	0.82 - 1.00	7.5	8.0	1400	cULus
BD-096-SE	0.96 - 1.25	9.0	8.5	1500	cULus

Dry location only except where noted.
E = Eye Length M = Mesh Length at Nominal Diameter (Inches)
* Dim with Bale Fully Extended
** Not UL Listed

Bus Drops, Universal Bale



Part Number	Range (in)	Eye length (in)	Lattice Length (in)	Approx. Breaking Strength (lbs)
BD-022-UB	0.22 - 0.32	12.0	3.5	1100
BD-030-UB	0.30 - 0.43	12.0	4.0	1100
BD-041-UB	0.41 - 0.56	12.5	4.0	1100
BD-053-UB	0.53 - 0.73	15.5	5.0	1100
BD-070-UB	0.70 - 0.85	16.5	6.5	1900
BD-082-UB	0.82 - 1.0	16.5	6.5	1900
BD-096-UB	0.96 - 1.25	18.0	7.0	1900

Dry location only except where noted.
E = Eye Length M = Mesh Length at Nominal Diameter (Inches)
* Dim with Bale Fully Extended
** Not UL Listed

Bus Drop Safety Springs






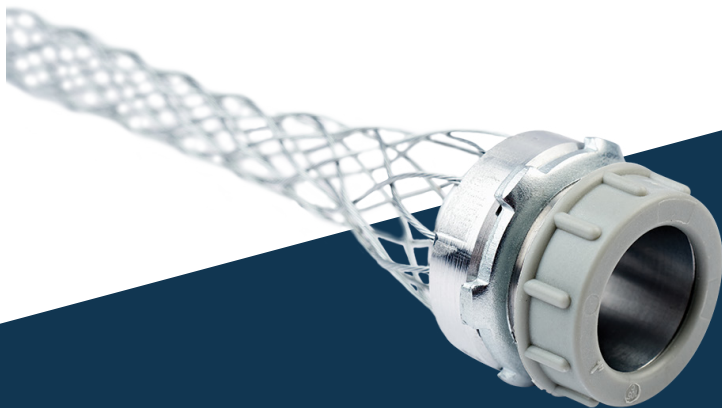
Part Number	Maximum Deflection	Description	Approximate Breaking Strength (lbs)	Length (No Load)
40 LB SPRING	2-1/8 @40 LBS.	SPRING	600LBS.	8-1/4
80 LB SPRING	3-1/8 @80 LBS.	SPRING	850 LBS.	8-1/4

Strain Relief, Deluxe Wire Mesh Grips and I-Grips

Indoor & Watertight Applications

Ericson Strain Relief Mesh Grips are designed to support cables where they exit electrical enclosures or wiring devices. Endless weave construction securely supports the cable and controls arc of bend. Manufactured using stainless steel mesh with aluminum fittings available in NPT and PG threaded bodies for attachment to an electrical enclosure or threaded hub.

Strain Relief Grip Styles	Application	Features
<div>Dust-Tight</div> 	Indoor use only for wiring of electrical enclosures, portable power tools, bus drop cable systems, provide strain relief and controlling arc of bend.	Galvanized Steel Strand PVC Seal (Wide Range Grip) Aluminum Collar Grip Range = .25 to 2.45"
<div>Deluxe Cord Grip</div> 	Designed for in or outdoor applications where the grip is subject to liquid splash and submersion. These grips provide strain relief strain relief protection and control cable arc of bend.	304 Stainless Steel Wire Mesh Aluminum Collar Aluminum Nut Aluminum Body Neoprene Bushing Grip Range = .18 to 3.25"
<div>I-Grips</div> 	Provides additional strain relief for Plugs and Connectors while controlling cable arc of bend. <i>For indoor use only.</i>	Galvanized Strand High Strength Aluminum Tabs Grip Range = .30 to 1.25"



Strain Relief Grips

Wide Range, Dust Tight, Strain Relief

- For use in dry locations only.
- Ericson Strain Relief Grips are wide range mesh construction with single weave, galvanized steel mesh.
- One piece design is easy to install.
- Ericson Strain Relief Grips are used to connect flexible cord or bus drop cable to electrical enclosures, to prevent cable damage from stress or arc of bend.
- PVC gasket is designed for a dust and moisture free installations.
- Insulated bushing and lock nut are provided to protect cord and conductors once inside the enclosure.

How to Select a Strain Relief Grip	
Step 1	Determine outside diameter of cable.
Step 2	Determine the indoor ambient area for your application.
Step 3	Select N.P.T size
Step 4	Refer to chart below and select the Wide Range wire mesh strain relief most suited to your application

Wide Range Strain Relief Grips Number Structure

Product Type	Mesh Diameter
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SR = Wide Range Strain Relief
SRI = Strain Relief Insulated

Mesh Diameter Range



Part Number	Range (in)	NPT Size	Length	Listing
SR-022	.24-.32	1/2	3-1/4	cULus
SR-030	.32-.43	1/2	3-3/4	cULus
SR-040	.43-.54	1/2	4-3/4	cULus
SR-052	.54-.73	3/4	6-1/2	cULus
SR-070	.73-.97	1	7	cULus
SR-094	.97-1.25	1-1/4	9	cULus

Dry location only.

Part Number	Range (in)	NPT Size	Length	Listing
SRI-022	0.22 - 0.32	1/2"	3-1/4	cULus
SRI-030	0.30 - 0.43	1/2"	3-3/4	cULus
SRI-040	0.40 - 0.54	1/2"	4-3/4	cULus
SRI-052	0.52 - 0.73	3/4"	6-1/2	cULus
SRI-070	0.70 - 0.97	1"	7	cULus
SRI-094	0.94 - 1.25	1.25"	9	cULus

Dry location only. Includes non-metallic insulated lock nut.

Strain Relief Grips

Deluxe Cord Grips Features

Features

- Ericson Deluxe Cord Grips are designed for indoor and outdoor applications where cables are exposed to moisture and splash.
- Prevents cable damage from pull-out and arc of bend.
- Stainless Steel Mesh with Aluminum Collar, Body and Nut.
- Neoprene Bushing to prevent moisture intrusion.
- Available sealing locknut.

COMPLIANCES:

National Electrical Code

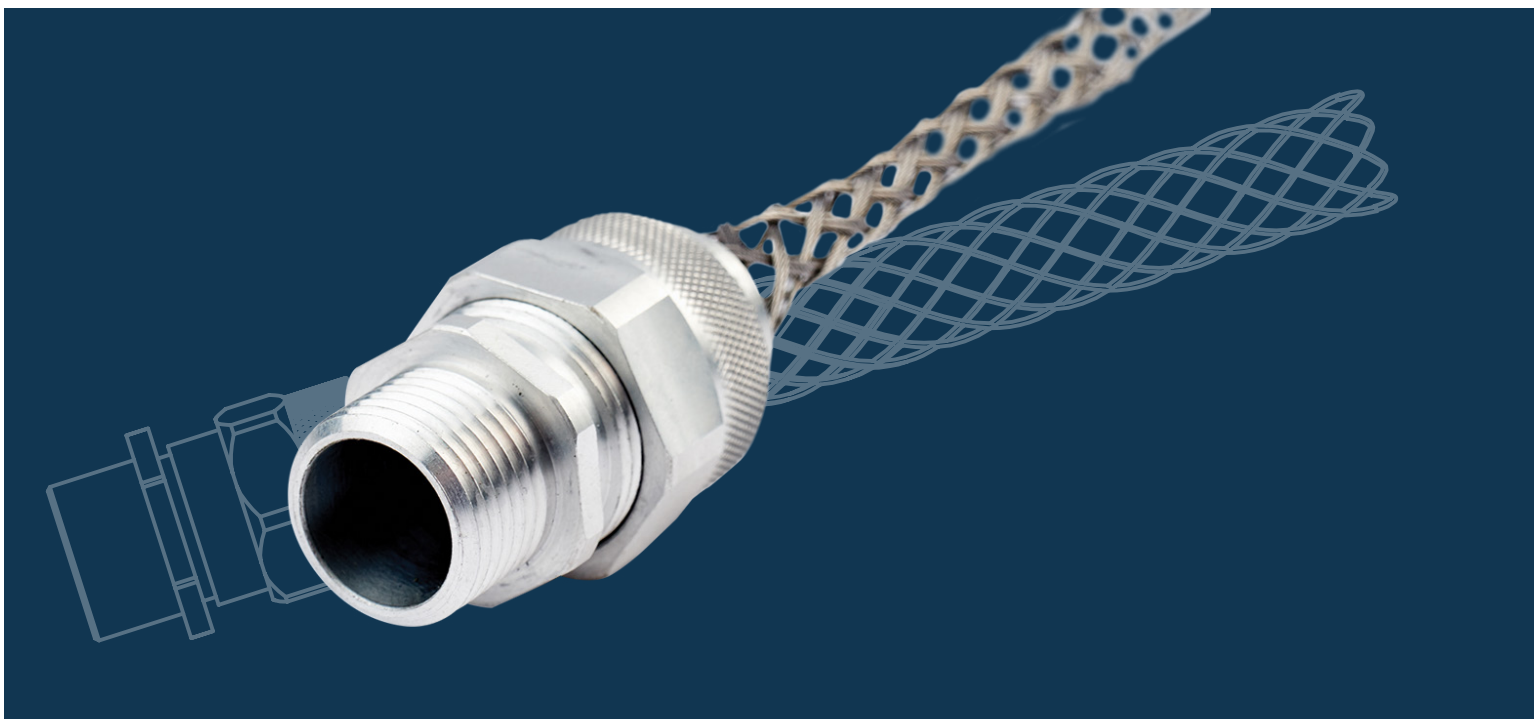
Articles 400-10 and 400-14

NEMA standards FB1-1983

Fed. Spec. W-C-586c

Mil Spec 100 and 130

Suitable for use in hazardous locations under NEC Sec 501-4(b), 502-4(a)(2), and 503-2(a). For Class 1, Div 2; Class II, Div 1 and 2; and Class III, Div 1 and 2.



Strain Relief Grips

Deluxe Cord Grips - 3/8" to 1-1/4"

- Ericson Deluxe Wire Grips are used in a variety of applications where pullout and arc of bend protection is necessary to protect cord and internal electrical connections. They are often used in liquid strewn or high particulate atmospheres.
- Enclosures
- Pumps
- Motor and Machine Tools
- Compressors
- Packaging and Food Processing Equipment
- Power Drops
- Available in straight, or 90-degree male threads

Deluxe Strain Relief Grips Number Structure

Product Type

DCG = Deluxe Cord Grip



Thread Size N.P.T.	Grip Diam. Range Inches	Male Thread Description	Listing	90 Deg Male Thread Description	Listing
3/8"	0.19 - 0.25	DCG-25-F1	UL	DCG-25-F1-90	-
	0.25 - 0.31	DCG-31-F1	UL	DCG-31-F1-90	-
	0.31 - 0.38	DCG-37-F1	UL	DCG-37-F1-90	-
	0.38 - 0.44	DCG-43-F1	UL	DCG-43-F1-90	-
1/2"	0.19 - 0.25	DCG-25-F2	cULus	DCG-25-F2-90	cULus
	0.25 - 0.38	DCG-37-F2	cULus	DCG-37-F2-90	cULus
	0.38 - 0.50	DCG-50-F2	cULus	DCG-50-F2-90	cULus
	0.50 - 0.63	DCG-62-F2	cULus	DCG-62-F2-90	cULus
3/4"	0.25 - 0.38	DCG-37-F3	cULus	DCG-37-F3-90	cULus
	0.38 - 0.50	DCG-50-F3	cULus	DCG-50-F3-90	cULus
	0.50 - 0.63	DCG-62-F3	cULus	DCG-62-F3-90	cULus
	0.63 - 0.75	DCG-75-F3	cULus	DCG-75-F3-90	cULus
1"	0.44 - 0.56	DCG-56-F4	cULus	DCG-56-F4-90	-
	0.56 - 0.69	DCG-69-F4	cULus	DCG-69-F4-90	-
	0.63 - 0.75	DCG-75-F4	cULus	DCG-75-F4-90	-
	0.75 - 0.88	DCG-87-F4	cULus	DCG-87-F4-90	-
	0.88 - 1.00	DCG-100-F4	cULus	DCG-100-F4-90	-
1-1/4"	0.75 - 0.88	DCG-87-F5	cULus	DCG-87-F5-90	-
	0.88 - 1.00	DCG-100-F5	cULus	DCG-100-F5-90	-
	1.00 - 1.13	DCG-112-F5	cULus	DCG-112-F5-90	-
	1.13 - 1.25	DCG-125-F5	cULus	DCG-125-F5-90	-
	1.25 - 1.38	DCG-137-F5	cULus	DCG-137-F5-90	-

Strain Relief Grips

Deluxe Cord Grips - 1-1/2" to 3"



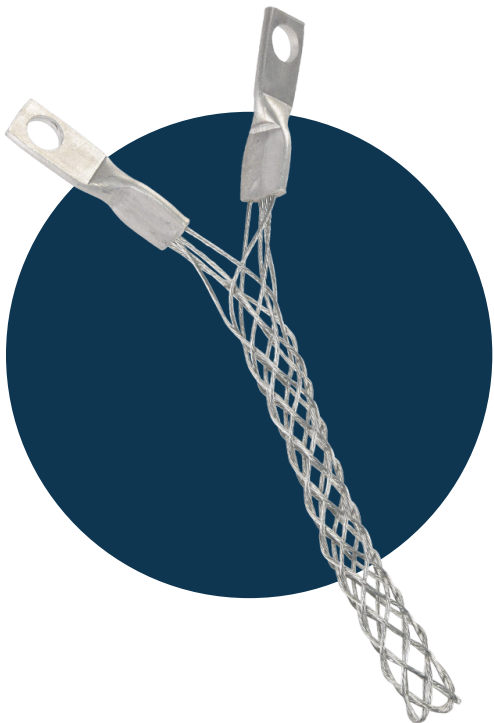
Thread Size N.P.T.	Grip Diam. Range Inches	Male Thread Description	Listing	90 Deg Male Thread Description	Listing
1-1/2"	0.75 - 0.88	DCG-87-F6	cULus	DCG-87-FG-90	-
	0.88 - 1.00	DCG-100-F6	cULus	DCG-100-FG-90	-
	1.00 - 1.13	DCG-112-F6	cULus	DCG-112-FG-90	-
	1.13 - 1.25	DCG-125-F6	cULus	DCG-125-FG-90	-
	1.25 - 1.38	DCG-137-F6	cULus	DCG-137-FG-90	-
	1.31 - 1.44	DCG-143-F6	cULus	-	-
2"	1.25 - 1.38	DCG-137-F7	cULus	DCG-137-F7-90	-
	1.31 - 1.44	DCG-144-F7	cULus	DCG-144-F7-90	-
	1.44 - 1.56	DCG-156-F7	cULus	DCG-156-F7	-
	1.56 - 1.69	DCG-169-F7	cULus	DCG-169-F7-90	-
	1.69 - 1.81	DCG-181-F7	cULus	DCG-181-F7-90	-
	1.75 - 1.88	DCG-187-F7	cULus	DCG-187-F7-90	-
	1.81 - 1.94	DCG-193-F7	cULus	-	-
	1.94 - 2.06	DCG-200-F7	cULus	-	-
2-1/2"	1.69 - 1.81	DCG-181-F8	cULus	-	-
	1.81 - 1.94	DCG-193-F8	cULus	-	-
	1.94 - 2.06	DCG-206-F8	cULus	-	-
	2.06 - 2.19	DCG-218-F8	cULus	-	-
	2.19 - 2.31	DCG-231-F8	cULus	-	-
	2.31 - 2.44	DCG-243-F8	cULus	-	-
3"	2.44 - 2.63	DCG-262-F9	cULus	-	-
	2.63 - 2.81	DCG-281-F9	cULus	-	-
	2.81 - 3.00	DCG-300-F9	cULus	-	-
	3.00 - 3.25	DCG-325-F9		-	-

Strain Relief Grips

I-Grips

- Split Mesh with Lace Closing are used for applications where cables are installed, subject to undo stress. The cables may be in applications where the cable is subject to angled stress or where the cable may be subject to slight arc.
- Lacing Material is provided to match mesh construction material (Galvanized or Stainless.)

Pulling Grips Number Structure



Part Number	Size Range (in)	Mesh Length (in)	Eye Opening (in)	Approx. Breaking Strength (lbs)
I-030	0.30 - 0.43	4.5	0.32	180
I-040	0.40 - 0.56	5	0.32	180
I-052	0.52 - 0.73	7	0.32	450
I-070	0.70 - 0.85	8	0.32	600
I-082	0.82 - 1.00	8.5	0.32	600
I-094	0.94 - 1.25	12	0.32	600



Technical Reference

The Wire mesh Strain Relief Products shown in this catalog list the approximate breaking strength, which is calculated based on actual test factors performed in our laboratories.

Test values were achieved through tests performed on new products attached to metal rods and subject to longitudinal tensile loads applied at a uniform rate. The test revealed nominal manufacturing and test factors can produce a + or - 20% variation in the breaking strength values listed.

The broad application of Ericson Grips on a wide variety of objects require that adequate safety factors be used to establish a safe working load. The ratio of the listed approximate breaking strength to the normal working load is the safety factor. As an example, a safety factor of ten (10) would then mean the working load is established by dividing the catalog listed approximate breaking strength by ten (10), or it can be stated that the working load is 1/10 of the catalog listed approximate breaking strength.

To determine the recommended working load safety factor for cable grips, divide the approximate breaking strength by 5 for Pulling Grips and 10 for Support Grips.

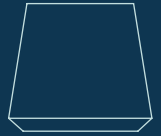
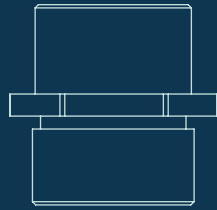
Example: For Pulling Grips, $30,000 / 5$ Safety Factor = 6000 lbs which is the workload factor.

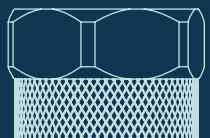
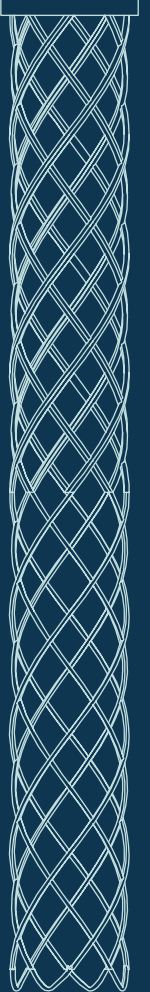
Example: For Support Grips, $11,000 / 10$ Safety Factor = 1100 lbs which is the workload factor.

It is impossible to set a safety factor suitable for all cases as operating conditions are never the same. The load, the speed, the acceleration, the diameter, number of objects gripped, surface of object being gripped, and the attachments used - all of these should be considered, together with the effects of abrasion, corrosion, prior use, or abuse, etc. The user-engineer must consider all the variables of his/her specific application, as well as possible accident consequences, before selecting the safety factor to be applied. Where the conditions of the application are not well defined or where risk of personnel or property damage is high, a greater safety factor should be utilized.

Any warranty as to quality, performance or fitness for use of Grips is always premised on the condition that the published approximate breaking strengths apply only to new, unused grips and that such products are properly stored, handled, used, maintained, and properly inspected from time to time during the period of use.

The factory should be consulted for specific application recommendations where approximate breaking strength and holding power are critical.





Technical Reference:

Lace & Rod Closing Instructions

Split Mesh with Lace Closing are used for applications where cables are installed, subject to undo stress. The cables may be installed in applications where subject to angled stress or cable may be subject to slight arc. Lacing Material is provided to match mesh construction material (Galvanized or Stainless.)



1

Start the lacing at the lead or anchoring end of all the Grip. Thread the lacings through the first loops of the split and pull through until the lacings are centered at this point. Lace as you would your shoe, crossing the lacings before lacing the next two loops.

2

Don't pull lacing too tight. Leave a space between adjoining loops approximately equal to the width of one diamond of the mesh.

3

Twist the lacing strands tightly together at the tail of the grip.

4

A wrap of tape or steel clamp at the bottom or the lacing is recommended to prevent sharp ends from abrading hands or other equipment in proximity.

Split Mesh Grips with Rod Closing are designed for applications for vertical applications where the cable is not subject to angled stress. The stainless steel rod has a precise build-in feature which makes threading easy and fast. The strands of the mesh pass around the rod and match up with the strands from the opposite direction. The rod does not touch the cable at any point and therefore cannot cut the cable. Rod Closing Grips are salvageable; may be removed and reused as many times as desired.



Quick To Install

Wrap the Grip around the cable and thread the rod through the preformed loops with a corkscrew motion, using the curved end of the rod to engage the loops. The action required is a steady push and twist simultaneously. The fingers of the left hand are used to bring the loops together just ahead of the hook on the end of the rod. To remove, simply pull the rod out.

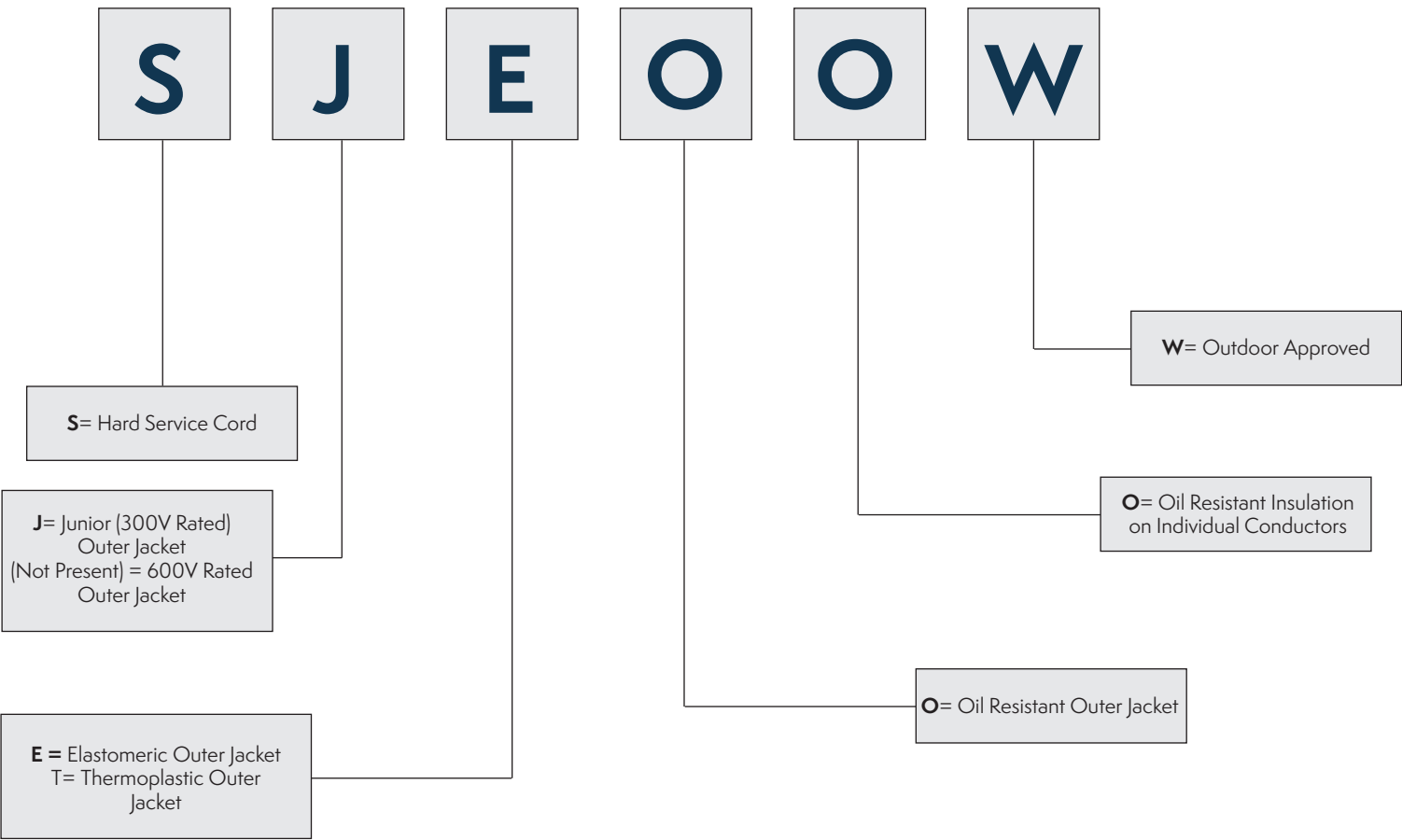
1

2

3

Technical Reference:

Portable Electrical Cord Nomenclature

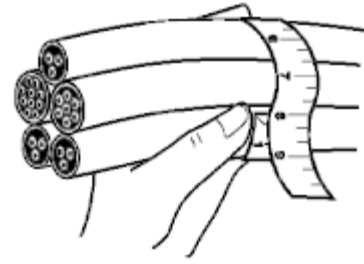


Diameter Ranges of Portable Electrical Cord in Accordance with UL 62

Type	AWG Size	2 Conductors	3 Conductors	4 Conductors
SJ,SJE, SJOO, SJO, SJEO, SJT, SJTO, SJTOO	18	0.280-0.315	0.300-0.335	0.325-0.365
	16	0.305-0.340	0.325-0.360	0.350-0.395
	14	0.335-0.375	0.360-0.395	0.390-0.435
	12	0.405-0.455	0.425-0.475	0.465-0.520
	10	0.540-0.605	0.565-0.635	0.625-0.700
S, SE, SOO, SO, SEO, ST, STOO, STO	18	0.340-0.385	0.360-0.400	0.385-0.430
	16	0.365-0.410	0.385-0.430	0.410-0.460
	14	0.495-0.550	0.520-0.575	0.560-0.620
	12	0.565-0.625	0.590-0.655	0.640-0.710
	10	0.615-0.685	0.650-0.720	0.700-0.775
	8	0.780-0.880	0.830-0.930	0.925-1.050
	6	0.920-1.050	0.970-1.100	1.050-1.200
	4	1.060-1.210	1.130-1.280	1.250-1.450
	2	1.210-1.400	1.300-1.500	1.450-1.650

Technical Reference:

Selecting Proper Sized Pulling and Support Grips



How to Select Proper Grip Size for One or More Cables of EQUAL Diameter	
Example: For four cables bundled together, each with a diameter of 0.30"	
Step 1	Locate "4 Cables" column
Step 2	Read down column to range (0.28" - .031")
Step 3	Read across line to Grip Diameter Range (.062" - .075")

Grip size is based on the outside diameter or circumference of the cable(s). Use Selection **Table 1** to determine the Grip Diameter Range for one or more cables of equal diameter. Use **Table 2** (pg 30) to determine the Grip Diameter Range for five or more cables of unequal diameter.

Grip Selection Table for One or More Cables of Equal Diameter

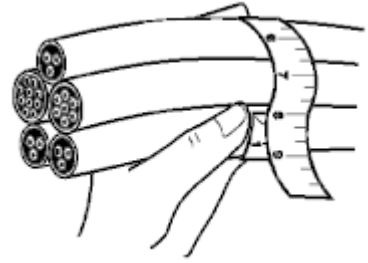
1. Read across the top line for the number of cables in one grip.
2. Read down for diameter of each cable.
3. Read across line to the Grip Diameter Range column.

Table 1: Decimal and Fractional Inch Cable Diameters — for One or More Cables of Equal Diameter

1 Cable		2 Cables		3 Cables		4 Cables		Grip Diameter Range
0.25–0.37	1/4–3/8	0.16–0.25	1/64–1/4	0.15–0.22	5/32–7/32	0.12–0.20	1/8–13/64	.250–.375
0.37–0.50	3/8–1/2	0.25–0.36	1/4–23/64	0.22–0.33	7/32–21/64	0.20–0.28	13/64–9/32	.375–0.50
0.50–0.62	1/2–5/8	0.27–0.36	17/64–23/64	0.26–0.33	17/64–21/64	0.24–0.28	15/64–9/32	0.50–0.75
0.62–0.75	5/8–3/4	0.36–0.45	23/64–29/64	0.33–0.36	21/64–23/64	0.28–0.31	9/32–5/16	0.62–0.75
0.75–1.00	3/4–1	0.45–0.60	29/64–39/64	0.36–0.49	23/64–31/64	0.31–0.42	5/16–27/64	0.75–1.00
1.00–1.25	1–1 1/4	0.60–0.76	39/64–49/64	0.49–0.63	31/64–5/8	0.42–0.54	27/64–35/64	1.00–1.25
1.25–1.50	1 1/4–1 1/2	0.76–0.91	49/64–29/32	0.63–0.76	5/8–49/64	0.54–0.65	35/64–21/32	1.25–1.50
1.50–1.75	1 1/2–1 3/4	0.91–1.08	29/32–1 5/64	0.76–0.89	49/64–57/64	0.65–0.77	21/32–49/64	1.50–1.75
1.75–2.00	1 3/4–2	1.08–1.23	1 5/64–1 5/64	0.89–1.02	57/64–1 1/64	0.77–0.88	49/64–7/8	1.75–2.00
2.00–2.50	2–2 1/2	1.23–1.54	1 5/64–1 35/64	1.02–1.28	1 1/64–1 9/32	0.88–1.00	7/8–1	2.00–2.50
2.50–3.00	2 1/2–3	1.54–1.84	1 35/64–1 27/32	1.28–1.53	1 9/32–1 17/32	1.10–1.32	1 3/32–1 21/64	2.50–3.00
3.00–3.50	3–3 1/2	1.84–2.15	1 27/32–2 5/32	1.53–1.79	1 17/32–1 51/64	1.32–1.54	1 21/64–1 35/64	3.00–3.50
3.50–4.00	3 1/2–4	2.15–2.45	2 5/32–2 29/64	1.79–2.05	1 51/64–2 3/64	1.54–1.76	1 35/64–1 49/64	3.50–4.00

Technical Reference:

Selecting Proper Sized Pulling and Support Grips



How to Select Proper Grip Size for One or More Cables of UNEQUAL Diameter	
Step 1	Find the Grip Circumference Range by measuring the circumference of the bundle of different diameter cables to be gripped (see Illustration.)
Step 2	Divide the bundle of circumference by 3.14 to determine the diameter.
Step 3	Choose a grip offering a range of cable diameters the same as the cable diameter.

Table 2: Decimal and fractional Inch Cable Diameters - Cable of Unequal Diameter

5 Cables		6 & 7 Cables		8 Cables		9 Cables		Grip Diameter Range
0.11–0.14	7/64–9/64	0.10–0.11	3/32–7/64	0.09–0.10	3/32–7/64	0.06–0.09	1/16–3/32	.250–.375
0.14–0.25	9/64–1/4	0.11–0.25	7/64–1/4	0.10–0.20	7/64–13/64	0.09–0.19	3/32–3/16	.375–0.50
0.21–0.25	7/32–1/4	0.19–0.22	3/16–7/32	0.17–0.20	11/64–13/64	0.15–0.19	5/32–3/16	0.50–0.75
0.25–0.29	1/4–19/64	0.22–0.26	7/32–17/64	0.20–0.23	13/64–15/64	0.19–0.22	3/16–7/32	0.62–0.75
0.29–0.38	19/64–3/8	0.26–0.34	17/64–11/32	0.23–0.31	15/64–5/16	0.22–0.31	7/32–5/16	0.75–1.00
0.38–0.48	3/8–31/64	0.34–0.43	11/32–7/16	0.31–0.39	5/16–25/64	0.29–0.36	19/64–23/64	1.00–1.25
0.48–0.58	31/64–37/64	0.43–0.52	7/16–33/64	0.39–0.46	25/64–15/32	0.36–0.43	23/64–7/16	1.25–1.50
0.58–0.67	37/64–43/64	0.52–0.60	33/64–39/64	0.46–0.54	15/32–35/64	0.43–0.49	7/16–31/64	1.50–1.75
0.67–0.77	43/64–49/64	0.60–0.69	39/64–11/16	0.54–0.62	35/64–5/8	0.49–0.57	31/64–37/64	1.75–2.00
0.77–0.96	49/64–31/32	0.69–0.86	11/16–55/64	0.62–0.77	5/8–49/64	0.57–0.72	37/64–23/32	2.00–2.50
0.96–1.16	31/32–1 5/32	0.86–1.03	55/64–1 1/32	0.77–0.93	49/64–15/16	0.72–0.86	23/32–55/64	2.50–3.00
1.16–1.35	1 5/32–1 23/64	1.03–1.20	1 1/32–1 13/64	0.93–1.08	15/16–1 5/64	0.86–1.00	55/64–1	3.00–3.50
1.35–1.54	1 23/64–1 35/64	1.20–1.37	1 13/64–1 3/8	1.08–1.24	1 5/64–1 15/64	1.00–1.14	1–1 9/64	3.50–4.00

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