

ROPE & ASSEMBLIES

Capabilities Guide











Rope & Assemblies Division Capabilities

Introduction

This capabilities guide provides information to assist in determining the Central Wire Rope & Assembly Division location that is best suited to provide the product or service that you need. The guide is structured in such a way to provide general information on capabilities by location (see chart below) and to then present specific products and processes available at each of the four divisional companies. A full page is allocated to each company to highlight their unique offerings. Contact detail is provided on the opposite page, and well as on each locations' page and the back cover.

If for some reason you cannot find the product or service that you are looking for, please contact one of our Rope and Assembly Division Companies listed in this Capabilities Guide and they will be happy to assist in finding you what you require.

	Wet Wire Drawing	Fine Wire Drawing	Wire & Cable Cleaning	Commercial Strand	Commercial Aircraft Cable	Commercial Wire Rope	Commercial Hardware	Domestic Strand	Domestic Aircraft Cable	Domestic Wire Rope	Import Wire Rope	Military Specification Aircraft Cable
Loos & Co., Inc.			②									
Strand Core					Ø				②			Ø
Sanlo				0		Ø	0				Ø	
Loos & Co., Inc. Cableware Division												

Military & Industry Specifications

MIL-W-21632	P100
DMS 2187	P101
DMS 2192	BAMS 511-001
DMS 2453	BS24917
DMS 2454	CM3862
DMS 2114	GL505H
DMS 1989	PS 60043
DMS 2220	ISO 2020
BMS7-265	BS 2W 12:1989
ASTM A1023	RR-W-410
ASTM A475	CMMP007
ASTM A313	
	DMS 2192 DMS 2453 DMS 2454 DMS 2114 DMS 1989 DMS 2220 BMS7-265 ASTM A1023 ASTM A475









Contact Information

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Toll Free: (800) 275-5408 sales@sanlo.com

www.sanlo.com

SEE PAGE 6



Toll Free: (800) 983-9926 sales@strandcore.com www.strandcore.com

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Toll Free: (800) 533-LOOS (5667)

sales@loosco.com
www.loosco.com

CABLEWARE® DIVISION

Toll Free: (800) 321-LOOS (5667)

sales@loosnaples.com www.loosnaples.com

Military Specification Wire Rope	Military Specification Hardware	Commercial Jacketed Cable & Wire Rope	Military specification Jacketed Cable	Seismic Bracing Cable	Seismic Bracing Hardware & Tools	Pulleys & Sheaves	Respooling	Proofloading / Prestretching	Cutting & Swaging Tools	Electric Cut Lengths	Commercial Cable Assemblies	Aircraft Flight Control Assemblies	Precision Machining	ISO 9001	AS9100	ISO 13485	QML 6117
Ø		②	②				Ø	Ø		②	Ø	Ø		Ø	②	②	Ø
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Customer Approvals

A.E. Petsche Co.
Airbus S.A.S
AgustaWestland
ATK Space System
Boeing Commercial Airplane. D1-9000
Bombardier Aerospace
Lockheed C-130 B-H Certified Parts Licensee
Cessna Aircraft Co.
Philadelphia Defense Control Center
Erickson Air-Crane Inc
Goodrich Aerospace Landing Gear Division
Gulfstream Aerospace Corp.
Central Texas Aircraft
LMASI-R010
Lockheed Martin Aeronautics Co.

Lycoming Engines
Martin-Baker America
Military Aircraft Systems
Northrup Grumman Corp.
Raytheon Aircraft Co.
Spirit Aerosystems
Triumph Group
TRW Space and Electronics Group
Vulcanair Aircraft
Wesco Aircraft
Goodrich
The Boeing Co.
Textron
DLA Aviation











Sanlo Inc. is a leading manufacturer of custom cable assemblies in a wide variety of bare and coated cable configurations. Coatings include nylon, vinyl, and other thermoplastic and/or specialized coatings. Sanlo also sells bulk strand, cable, and coated cable, in addition to cable assemblies for industrial, commercial, and consumer end-uses. Wire rope and mechanical cable assemblies provide a simple, reliable, and cost-effective solution to an ever-increasing diversity of applications. Sanlo offers on-site engineering services to assist with your custom designs and can often prototype your assemblies.

Products & Services

Import Strand:

1/32"-9/16" 1x7 galvanized 1/32"-1/8" 1x7 302/304, 316 stainless steel 1/32"-3/8" 1x19 galvanized 1/32"-1/2" 1x19 302/304, 316 stainless steel

Import Wire Rope:

1/32"-3/64" 3x7 galvanized 1/32"-3/64" 3x7 302/304, 316 stainless steel 3/16"-1" 6x19 bright, galvanized IWRC & Fiber Core 1/4"-3/4" 6x19 302/304, 316 IWRC & Fiber Core 1/4"-1" 6x37 bright, galvanized IWRC & Fiber Core 1/4"-3/4" 6x37 302/304, 316 IWRC & Fiber Core

Aircraft Cable:

3/64"-5/16" 7x7 galvanized 1/32"-1/4" 7x7 302/304, 316 stainless steel 1/16"-3/8" 7x19 galvanized 1/32"-3/8" 7x19 302/304, 316 stainless steel

Standard Mechanical Assemblies:

Loop-eye galvanized and stainless lanyards Eye-eye galvanized and stainless lanyards loop-loop galvanized and stainless lanyards loop-loop tab galvanized and stainless lanyards

Custom Assemblies:

Standard cable sizes: 1/32"-5/8"

Standard constructions: 1×7,3x7, 1×19, 7×7, 7×19

Bare or jacketed - nylon or vinyl

Vinyl or nylon
Custom colors
Stock commercial hardware
Custom hardware

Specialty Products:

Air hose support cables Bottom rod support cable Autorack car safety and door cable Center beam tie-down cable Bed support system cable Deck support cable Release cable Slide-out room system cable Winch cables Hang-on tree stand cable Climbing tree stand cable Hunting bow press cable Fishing cable Fish tapes Air suspension bead rings Air suspension clamp rings Retail security cable Cargo and bike lock cable Computer security lock cable Spring box cable assemblies Emergency shutoff cable Lock out/ Tag out safety cable Reflexlite Kobra Koil assemblies

Assembly Processing:

Fuse cut lengths Kitting
Cut/strip lengths Individual bagging/labeling
Die Cast Part Identification
Coiling

Wire Rope & Cable Processing:

Re-reeling, plastic/pressboard/plywood/lumber reels Cut/coil/zip tie packaging

Coated Cable:

Nylon:

3/32"-3/8" 7x19 galvanized coated to 1/8"-15/32" 3/32"-3/8" 7x19 stainless steel coated to 1/8"-15/32" 3/64"-1/4" 7x7 galvanized coated to 1/16"-3/8" 1/32"-1/4" 7x7 stainless steel coated to 3/64"-3/8"

Nylon Colors:

Clear Orange Opaque
Blue Trans. Red Trans.
Brown Red Opaque
Gray Light White

Green Forest Yellow Opaque

Custom colors upon request

Tools:

Cable Cutters Crimping Tools

Stock Commercial Hardware:

Compression sleeves
Stamped eye terminal
Stops
Plain ball ends
Single shank ball ends
Standard carbon steel thimbles
AN100 thimbles
Threaded terminal studs
Malleable rope clips

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Vinyl:

3/32"-3/8" 7x19 galvanized coated to 1/8"-15/32" 3/64"-3/8" 7x19 stainless steel coated to 1/16"-15/32" 3/64"-1/4" 7x7 galvanized coated to 1/16"-3/8" 1/32"-1/4" 7x7 stainless steel coated to 3/64"-3/8"

Vinyl Colors:

Natural Green Lime Green Trans. Beige Black Orange Opaque Blue Spartan Orange Trans. Red Trans. Blue Trans. Brown White Gray Medium White Bright Gray Trans. Smoke Yellow Opaque

Custom colors upon request

Quality Management Systems:

ISO 9001:2015

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With its focus on quality and over 40 years of excellence, Strand Core produces Commercial, Mil-Spec, OEM Wire Rope, Wire Strand and Assemblies in multiple industries including but not limited to: Aerospace, Oil & Gas, Marine, Dept. of Defense, Construction, Medical and Rigging/Hoist Industries.

Products & Services

Domestic Strand

1/32"-1/8" 1x7 galvanized 1/64"-3/8" 1x7 302/304 stainless steel 3/64"-5/16" 1x19 galvanized 3/64"-1/4" 1x19 302/304, 316 stainless steel 5/32"-3/16" 1x37 bright, galvanized 5/32"-3/16" 1x37 302/304, 316 stainless steel

Domestic Wire Rope:

1/32"-3/64" 3x7 302/304, 316 IWRC & Fiber Core 5/32" 3x19 galvanized IWRC & Fiber Core 3/16"-5/8" 6x19 bright, galvanized IWRC & Fiber Core 3/16"-5/8" 6x19 302/304, 316 IWRC & Fiber Core 3/16"-5/8" 6x37 bright, galvanized IWRC & Fiber Core 3/16"-5/8" 6x37 302/304, 316 IWRC & Fiber Core

Domestic Aircraft Cable:

3/64"- 3/8" 7x7 galvanized 1/32"- 3/8" 7x7 302/304, 316 stainless steel 1/16"- 3/8" 7x19 302/304, galvanized 1/16"- 3/8" 7x19 302/304, 316 stainless steel 3/32"-1/4" 19x7 galvanized 3/32"-1/4" 19x7 302/304, 316 stainless steel

Wire Drawing:

0.0055"-0.028"

Galvanized per AISI specs IPS, EIPS & EEIPS grades GIPS, GEIPS & GEEIPS grades

0.0035"-0.028"

302/304 Stainless steel 316 Stainless steel Inconel® 600.625 Nitronic® 32, 50 Monel® 400

Assembly:

Custom assemblies:

Standard constructions: 1×7, 1×19, 7×7, 7×19 Rescue hoists: 19x7

Military Standard (MS) Hardware:

Eye end (MS20668) Double shank ball fitting (MS20663) Single shank ball fitting (MS20664) Fork end fitting (MS20667) Locking stud (MS21260 | AN669 | NAS650) Stud (MS21259 | AN666) Oval sleeve (MS51844) Turnbuckle body (MS21251)

National Aerospace Standard (NAS) Hardware:

Ball end fitting (NAS494) Strap fork (NAS1435-K) Strap eye (NAS1435-E) Stop sleeve AN100 thimble Marine eye end

Specifications:

ASTM A 1023/A BMS7-265 MIL-DTL-83420 MIL-DTL-87161 MIL-DTL-18375 MIL-DTL-83140 RR-W-410

Processes:

Rotary swaging wire rope through 1/4"
Prestretching bulk wire rope through 5/8"
Proofloading assemblies up to 320 ft., 12,00 lbs. max
Re-reeling, plastic/pressboard/plywood/lumber reels
Cut/coil/zip tie packaging
Individual bagging/labeling

Quality Management Systems:

ISO 9001 : 2015 AS9100 Rev D

Architectural Cable:

1/32"- 3/8" 7x7 302/304, 316 stainless steel 1/32"- 3/8" 7x19 302/304, 316 stainless steel 3/64"-1/4" 1x19 302/304, 316 stainless steel

Marine Wire Rope:

3/64"-1/4" 1x19 302/304, 316 stainless steel 1/32"- 3/8" 7x7 302/304, 316 stainless steel 1/32"- 3/8" 7x19 302/304, 316 stainless steel 3/16"-5/8" 6x19 302/304, 316 stainless steel



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Loos and Company manufactures a wide variety of wire, aircraft cable, wire rope, and assemblies. These products are used in aerospace, military, and commercial applications, including - aircraft flight controls, elevators, fitness equipment, rigging, and scaffolding operations.

Products & Services

Domestic Strand:

1/64"-1/2" 1x7 galvanized 1/64"-1/2" 1x7 302/304, 316 stainless steel 3/64"-3/4" 1x19 galvanized 3/64"-3/4" 1x19 302/304, 316 stainless steel 1/16"-3/8" 1x13 bright & galvanized 1/16"-3/8" 1x13 302/304, 316 stainless steel 5/32"-5/8" 1x37 bright & galvanized 5/32"-5/8" 1x37 302/304, 316 stainless steel

Domestic Wire Rope:

5/32-5/8" 3x19 galvanized 5/32-5/8" 3x19 302/304, 316 3/16"-1-1/4" 6x19 bright, galvanized, IWRC & Fiber Core 3/16"-1-1/4" 6x19 302/304, 316 IWRC & Fiber Core 3/16"-1-1/4" 6x25 302/304, 305, 316 IWRC & Fiber Core 3/16"-1-1/4" 6x25 bright, galvanized IWRC & Fiber Core 3/16"-1-1/4" 6x36 302/304, 305, 316 IWRC & Fiber Core 3/16"-1-1/4" 6x36 bright, galvanized IWRC & Fiber Core 3/16"-1-1/4" 6x37 302/304, 305, 316 IWRC & Fiber Core 3/16"-1-1/4" 6x37 bright, galvanized IWRC & Fiber Core 1/8"-1/2" 6x42 galvanized IWRC & Fiber Core 1/8"-1/2" 6x42 302/304 stainless steel IWRC & Fiber Core 5/32"-1/2" 7x7x7 galvanized IWRC & Fiber Core 5/32"-1/2" 7x7x7 302/304 stainless steel IWRC & Fiber Core 5/8"-1" 7x7x19 galvanized IWRC & Fiber Core 5/8"-1" 7x7x19 302/304 stainless steel IWRC & Fiber Core

Standard Cable & Wire Rope Alloys:

All sizes and constructions can be manufactured in these or other specialty alloys

302, 304, 304L, 304V 305, 316, 316LVM 321, 347, 17-7 pH, MP35N®, Monel®, Inconel®, phosphor bronze 505 & 510

Domestic Aircraft Cable:

1/32"-1/16" 3x7 galvanized 1/32"-1/16" 3x7 302/304, 305, 316 stainless steel 1/32"-3/8" 7x7 galvanized 1/32"-3/8" 7x7 302/304, 305, 316 stainless steel 3/64"-3/8" 7x19 galvanized 3/64"-3/8" 7x19 302/304, 305, 316 stainless steel 1/8" 7x19 tin over zinc 3/32" 7x7 tin over zinc 3/32"-5/8" 19x7 galvanized 3/32"-5/8" 19x7 302/304, 305, 316 stainless steel

Extrusion:

Jacket diameters:

0.021"-2.250" Nylon 0.047"-2.250" Vinyl

Standard Materials:

Nylon 11, Nylon 6 Co-polymer, FDA approved Nylon 11, Nylon 12, V-80 (80 durometer) & V-90 (90 durometer) in various colors.

Color matching available:

We work with color concentrates that match customer samples or standard color specifications such as Pantone Color Numbers or FED-STD-595 Color Numbers.

Standard jacket OD tolerances:

+/- 0.007" up to 0.250"

+/- 0.010" up to 0.375"

+/- 0.015" up to 0.500"

+/- 0.020" up to 0.750"

+/- 0.025" larger than 0.750"

Assembly:

Military cable assemblies Aircraft control assemblies Lock-clad cable assemblies Commercial cable assemblies Fused cut wire rope and cables

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Miniature Stainless Steel Cable Products:

0.006"-0.047" 1x7 302/304, 316 stainless steel 0.015"-0.047" 1x7 coated to 0.021"-0.063" 0.009"-0.047" 7x7 302/304, 316 stainless steel 0.014"-0.047" 7x7 coated to 0.021"-0.063" 0.008"-0.047" 1x19 302/304, 316 stainless steel 0.015"-0.047" 1x19 coated to 0.021"-0.063" 0.018"-0.047" 7x3 302/304, 316 stainless steel

Wire Drawing:

0.001"-0.217"

302, 304, 305, 309, 310, 314, 316, 317, 321, 330, 347, 410, 420, 430, Alloy 20CB3, SnCuFe, AL6XN, Nitronic® 032/050, Nickel 200/201, MP35N®, Hastelloy C276, Inconel® 600/601/625/825, Monel® 400, Haynes Alloy 25, galvanized per AISI specs, IPS/EIPS/EEIPS, BIPS/BEIPS/BEIPS/ BEEIPS, & GIPS/GEIPS/GEEIPS

Specialty alloys available upon request

Specialty Wire & Cable Products:

Exerflex Pro fitness cable
Armor wrapped cable
Mooring and oceonographic cable
Hide wire
Marine and rigging cable
Well screen wire
Well measuring line
Safety lock wire
Knitting wire
Weaving wire
Lashing wire
Spring wire

Quality Management Systems:

ISO 9001 : 2015 AS9100 Rev D ISO 13485 : 2016



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Medical Products:

0.001"-0.188" stainless steel round wire Stainless steel flat wire 0.001"x0.003" to 0.019"x0.037" 0.003"-0.188" Elasticore® extrusion core wire Cable assemblies

Wire & Cable Processing:

Bobbin winding
Wire straightening
Cable swaging
Cut to length
Welded/fused ends
Fittings
Crimped fittings
Individual bagging/labeling

Medical Strand:

0.003"-0.047" 1x7 302/304, 304V, 316LVM stainless steel 0.005"-0.047" 1x19 302/304, 304V, 316LVM stainless steel

Medical Cable:

0.009"-0.047" 7x7 0.015"-0.047" 7x19

Processes:

Rotary swaging of bulk wire rope through 1/4"
Prestretching bulk wire rope through 1-1/4"
Proofloading assemblies up to 300 ft., 8,500 lbs. max
Part Identification: electro-chemical etch, ink stamp, tag ID
Re-reeling, plastic/pressboard/plywood/lumber reels
Cut/coil/zip tie packaging
Individual bagging/labeling

Specifications:

MIL-DTL-83420	DMS 1989
MIL-DTL-87161	DMS 2220
MIL-DTL-18375	BMS7-265
MIL-DTL-87218	ASTM A1023
MIL-DTL-83140	ASTM A475
MIL-DTL-5765	ASTM A313
MIL-DTL-6117	P100
MIL-DTL-5688	P101
MIL-W-12567	BAMS 511-001
MIL-W-18242	BS24917
MIL-W-21632	CM3862
DMS 7-265	GL505H
DMS 2187	PS 60043
DMS 2192	ISO 2020
DMS 2453	BS 2W 12:1989
DMS 2454	RR-W-410
DMS 2114	CMMP007



Specializing in MS, AN and NAS parts, stainless steel hardware from Loos & Company, Inc. Cableware Division has earned a reputation of having the finest quality products in the industry. Loos & Company, Inc. Cableware Division also manufactures and stocks a complete inventory of wire rope and cable hardware accessories including swaging tools, swaging machines and swaging dies.

Products & Services

MS Wire Rope Terminals:

Fork ends (MS21252C, NAS1435-K, MS20667) Ball ends (MS20663, MS20664, BA3) Eye ends (MS20668, MS21254C, MS21255C, EY1X, NAS1435-E)

Wire Rope Clips Oval Sleeves (MS51844)

Thimbles Studs (MS21259, MS21260)

Stop Sleeves

Turnbuckles (MS21251, MS21256)

Cable bushings Clevis pins Cotter pins

Seismic Bracing:

Complies with NFPA 13, ASCE 19, the IBC & ASCE 7

Seismic bracing cable:

#GO3-CBL - load rating: 418lbs #OR4-CBL - load rating: 770lbs #GR6-CBL - load rating: 1,900lbs #BL8-CBL - load rating: 3,180lbs

Seismic bracing hardware:

Seismic anchoring fittings Seismic anchoring fittings (retrofit) Seismic anchoring fittings (2 cable holes) Seismic anchoring kits (retrofit, 2 cable holes) Oval sleeves Low-pry fittings

Seismic bracing kits:

Available in #GO3 (GOLD), #OR4 (ORANGE), #GR6 (GREEN) and #BL8 (BLACK) cable 2-way sway bracing kit with fittings installed 4-way sway bracing kit

Tools:

Locoloc® Handswaging Tools Locoloc® Battery Swaging Tools **FELCO Cable Cutters Battery-Powered Cable Cutters Hydraulic Cable Cutters Swaging Machines** Cable Diameter Gauge Locoloc® Sleeve Gauges Accesories for M2 Locoloc® Swaging Kits **Tension Gauges** Cable Strippers Locking & Seizing Wire (NASM20995)

Pulleys & Sheaves:

Stock steel pulleys 1.5"-6" Stock QSheavesTM 6"-12" Custom steel sheaves - StrongmanTM Custom nylon sheaves - HardhatTM Plastic process sheaves Crosby API sheaves Crosby McKissick sheaves Gunnebo Johnson sheaves Bomco replacement sheaves Cable guides

Quality Management Systems:

AS9100 Rev D ISO 9001: 2015

Loos Precision Products

Machinery & Equipment:

12-foot bar feeders

Presses from 15 to 500 ton

Citizen Swiss CNS Lathes up to 1 1/2" diameter (13)

HAAS CNC Lathes (4)

HAAS TM-1 CNC Tool Room Mills

HAAS VF-2 CNC Vertical Machining Centers

Cincinnati Milacron 207MK Horizontal Mills

Cincinnati Milacron 100 Powermatic Horizontal Mills

Lagun FU-152 Horizontal Mill

Nardini Tool Room Lathes

Bridgeports (1 w/Prototrak)

Automatic Dumore Drill Units

4 Station Deep Drill Unit

Universal Grinder

Surface Grinders

Spot Welder

Stamp Presses

Roll Thread Machines - 15 Ton, 2 Die

Precision High Production Saws w/ Auto Feeding and

Clamping

Keyence IM-7030 Video Measurement Equipment

Keyence IM-6010 Measurement Equipment

Tinius Olsen LoCap Universal Testing Machine

Custom Epsilon Extensometer

Service Diamond and Phase II Hardness Testers to ASTM

E18-20

Fluorescent Penetrant Inspection System to ASTM E1417

Surftest SJ-210

In-House Inspection Capabilities:

High resolution dimensional inspection

Functional tension, compression, and elongation testing

Hardness testing of steel and aluminum

Crack, weld flaws, and other defect detection

Surface roughness testing

Statistical analysis & process capability (CP & CPK)

Production trends



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Featured Processes:

Turning

Machining

Drilling

Tapping

Thread rolling

Broaching

Milling

Lathing

Grinding

Powder coating

Material Processing Capabilities:

ASTM-E-1417

Heat treat

Plating

Passivation per ASTM A967 standard

Tolerancing to ± 0.0001"

Measurement Resolution of .000001

Standard Materials:

Stainless steel

Carbide

Alloy Steel

Copper

Aluminum

Nickel

Brass

Exotic Metals

Bronze Alloys

Plastics

Carbon Steel

Phenolics

BrushKing® Shearing & Pruning Tools:

Shearing Knives:

Razor edge shearing knives

Serrated edge shearing knives

Pine shaper

Cutters & Pruners:

Pruning knives

Grafting knives

FELCO pruners

Saws:

Hand saws

Pole saws

Accessories:

Pole saw/pruning blade

Holster

Shearing knife blades replacement parts

Shearing knife handles

Replacement parts

Shrink tube replacement parts



16B Mashamoquet Road Pomfret Center, CT 06259, USA

Toll Free: (800) 533-LOOS (5667) Phone: (860) 928-7981 Fax: (860) 928-6167

sales@loosco.com | www.loosco.com

CABLEWARE® DIVISION

901 Industrial Blvd. Naples, FL 34104-3715, USA

Toll Free: (800) 321-LOOS (5667) Phone: (239) 643-LOOS (5667) Fax: (239) 643-4558

sales@loosnaples.com | www.loosnaples.com



www.centralwire.com



5881 Commerce Rd Milton, FL, 32583, USA

Toll Free: (800) 983-9926 Phone: (850) 564-7161 Fax: (850) 983-8338

sales@strandcore.com | www.strandcore.com



400 State Highway 212 Michigan City, IN 46360, USA

Toll Free: (800) 275-5408 Phone: (219) 879-0241 Fax: (219) 879-5628

sales@sanlo.com | www.sanlo.com