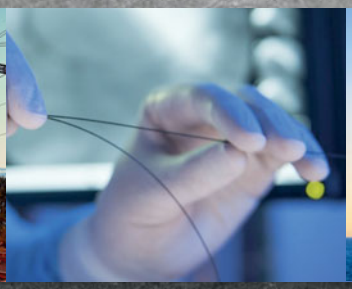
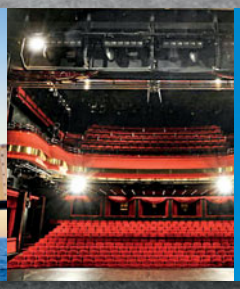
Catalog
No. 5

NICOPRESS®

*Securing our world since 1901*

# Connection System





## Sleeves and tools for wire, fiber and synthetic rope

# Wire rope connection systems for more than 120 years

Since 1901, Nicopress® has designed and manufactured a wide range of tools, connections and terminating solutions for applications in wire, fiber and synthetic rope for global customers. A perfectly integrated system, Nicopress® tools and sleeves have been specifically engineered, laboratory- and field-tested for dependability and longevity.

Sleeves are available in aluminum, copper, tin-plated copper, zinc-plated copper, black-oxide coated copper, stainless steel and titanium. Traditional sleeve sizes range from 1/32" (1mm) to 5/8" (16mm). Micro sleeve sizes also are available from 0.008" (0.20mm) to 3/64" (1mm) as well as stop and custom sleeves.

A wide range of tools for both in-field and factory conditions complement the sleeves for convenient and proper installation; these include: hand, pneumatic, manual hydraulic, electric hydraulic and bench. Detailed instruction sheets are available to illustrate proper connector and tool selection, as well as tool operation and adjustment. Go gauges are packaged with each tool so that swaged sleeves may be inspected properly for correct installation.

# Safely securing our world

Nicopress® patented and developed the science for the oval sleeve connection system, and continues to successfully secure customers' critical applications worldwide in industries that require efficiency, safety, reliability and quality. Sleeves hold up to 100% RBS (rated breaking strength) and comply with wire rope termination specifications including MS51844 and EN13411. The industry leader, the Nicopress® system of sleeves and tools ensures dependability.

# Committed to innovation

We continually evaluate various types and grades of cable and rope to provide new solutions for challenging connections and terminations. Regardless of alloy, composition or application, the result is a Nicopress® system of compression connectors and tools that provides secure and permanent solutions for cable terminations and connections.

For more than 120 years, Nicopress® sleeves and tools have been the termination solution of choice for aerospace, military and defense, utilities (infrastructure), OEM/industrial, rail signal and catenary, indoor and outdoor entertainment, performing arts, motion picture, and specialty solutions including construction, erosion control, fall protection, material handling, marine and others.

# Dedication to quality and continuous improvement

Our Cleveland, Ohio USA operation is certified to ISO 9001:2015 with Design standard. This globally recognized certification of quality management system standards supports our commitment to create and maintain quality processes that ensure consistency, visibility and accountability. The demanding certification and audit process demonstrate our dedication to provide the highest-quality standards in design, engineering and product manufacturing that meet or surpass our customers' expectations.

# Knowledgeable post sales service & support

Our design, engineering and development team supports a wide range of Nicopress® products with extensive technical knowledge. Our team answers questions and provides after-sales service as part of our quality commitment. A wide range of educational literature including technical bulletins are available for download on our website.

We developed an efficient distributor network to make Nicopress® products available worldwide on-demand. Nicopress® customers can rely on our quality products, service and support. Our USA operation manufactures the vast majority of the products we sell and our knowledgeable team is available to answer questions and assist with global engineering challenges.

# NICOPRESS: A safe, secure, integrated system

Nicopress® tools and connectors have been specifically engineered, laboratory- and field-tested for dependability. They're a perfectly integrated system for your global connection and terminating solutions for applications of wire, fiber and synthetic rope. Safety is our cornerstone. We continually provide instructions and technical bulletins to ensure proper usage of Nicopress® tools and connectors to safely secure your world.

## Connections & terminations hold to RBS

The Nicopress® system is easy to use. Nicopress® sleeves are used to create rated breaking strength (RBS) eye-splice terminations. Nicopress® stop sleeves are used to terminate cable and rope and typically hold to 50% of the cable's RBS.

Through pull testing we have determined that Nicopress® oval sleeves made of copper, plated copper, aluminum and stainless steel will typically hold wire ropes in tension until they break when wire ropes and strand are certified to specifications: MIL-DTL-83420 (Flexible Wire Rope for Aircraft Control); RR-W-410 (Federal Specification for Wire Rope and Strand); MIL-DTL-18375 (Flexible Stainless Steel Aircraft Wire Rope); and EN12385 (Steel Wire Ropes for Lifting – metric standard). Typical cable constructions are: 3x7, 7x7, 7x19, 6x19 IWRC, 6x25 IWRC and others.

Nicopress® sleeves for swaged wire rope connections comply with all known termination specifications and standards including: MS-51844 (Sleeve, Swaging Wire Rope), metric standard EN13411-3 (Terminations for Steel Wire Ropes, Ferrules and Ferrule Securing), and ASME B30.9 (Slings).

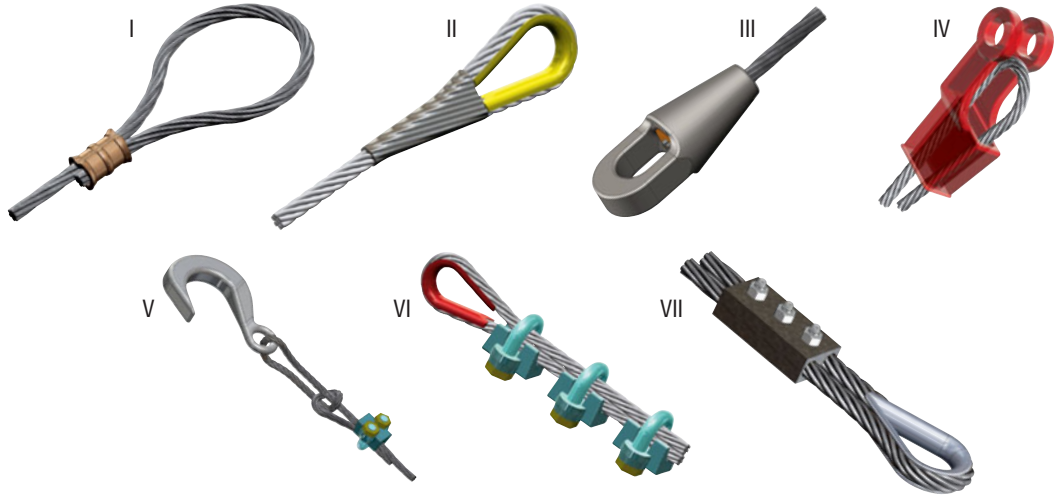
Other types and grades of cable exist and may be used with Nicopress® sleeves. In order to establish the exact holding power a pull test is recommended prior to use. This ensures proper selection of materials, the correct pressing procedure and an adequate margin of safety for intended use. Proof testing is recommended whenever the possibility of personal injury or property damage exists. ALWAYS wear safety glasses when tool is being used.

Nicopress® tools are designed to be used with Nicopress® sleeves as an integrated system.

## Efficiency of wire rope connections[1, 2, 3]

| FIGURE | TYPE OF CONNECTION | EFFICIENCY | COST |
|---|---|---|---|
| I | COMPRESSED SLEEVE 'NICOPRESS' | 95 - 100% | LOW |
| II | SPLICED EYE AND THIMBLE | 80 - 89% | MEDIUM |
| III | POURED SOCKET | 95 - 100% | HIGH |
| IV | OPEN WEDGE 'WEDGE SOCKET' | 75 - 85% | HIGH |
| V | KNOT AND CLIP 'CONTRACTORS KNOT' | 50% | LOW |
| VI | WIRE ROPE CLIPS | 75 - 85% | MEDIUM |
| VII | PLATE CLAMP | 80% | LOW |

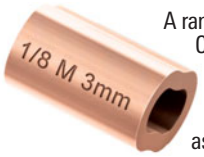
1-Handbook of Oceanographic Winch, Wire and Cable Technology. National Science Foundation and Dept of Navy – Office of Naval Research.
2-Dept of Energy DOE-STD–1090-2007, Ch 11, Wire Rope Fastenings.
3-Rope and Cable Terminations, C Robert Shaw.



# NICOPRESS Copper, Zinc-Plated & Black-Oxide Oval Sleeves


| FOR STEEL AIRCRAFT CONTROL CABLE & WIRE ROPE | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NICOPRESS OVAL SLEEVES | | | | | | | NICOPRESS APPLICATION TOOL SELECTION | | | | | | | | | |
| CABLE SIZE | | OVAL SLEEVE | | | APPROX WT (PER 1000/M) | | HAND TOOLS | | BENCH TOOL HEAD | | HYDRAULIC TOOLS | | AT-PNEUMATIC | BATTERY TOOLS | | |
| in | mm | PLAIN COPPER | ZINC-PLATED COPPER | BLACK-OXIDE | lb | kg | SINGLE-GROOVE | MULTI-GROOVE | SINGLE-GROOVE | MULTI-GROOVE | 3512 DIE | 635 DIE | POWER HEAD | 5606M DIE | 5612M DIE | |
| 1/32 | - | 17-1-B | 27-1-B | 617-1-B | 0.6 | 0.3 | 31-B | 17-BA<br>17-B4B | | | | | AT-B | | | |
| 3/64 | 1-1.2 | 18-11-B4 | 28-11-B4 | 618-11-B4 | 2 | 1 | 51-B4-887<br>31-B4 | 17-B4B<br>33V-CGB4 | 51-B4-887 HEAD | | 12-OVAL-B4 | OVAL B4 | AT-B4 | 6-OVAL-B4 | 12-OVAL-B4 | |
| 1/16 | 1.5-2 | 18-1-C | 28-1-C | 618-1-C | 3 | 1.3 | 51-C-887 | 33V-CGB4<br>32-VC-VG<br>64-CGMP | 51-C-887 HEAD<br>3-C-887 HEAD | 64-CGMP HEAD<br>3V-CGMP HEAD | 12-OVAL-C | OVAL C | AT-C<br>AT-CGMP | 6-OVAL-C | 12-OVAL-C | |
| 3/32 | 2.5 | 18-2-G | 28-2-G | 618-2-G | 5 | 2.3 | 51-G-887 | 33V-CGB4<br>32-VC-VG<br>64-CGMP | 51-G-887 HEAD<br>3-G-887 HEAD | 64-CGMP HEAD<br>3V-CGMP HEAD | 12-OVAL-G | OVAL G | AT-G<br>AT-CGMP | 6-OVAL-G | 12-OVAL-G | |
| 1/8 | 3-3.5 | 18-3-M | 28-3-M | 618-3-M | 17 | 7.7 | 51-M-850 | 64-CGMP*<br>63V-XPM*<br>51-MJ<br>3V-F6:X:M<br>3-MJ | 51-M-850 HEAD<br>3-M-850 HEAD | 64-CGMP HEAD<br>63V-XPM HEAD<br>51-MJ HEAD<br>3V-CGMP HEAD<br>3V-F6:X:M HEAD<br>3-MJ HEAD | 12-OVAL-M | OVAL M | AT-M<br>AT-CGMP<br>AT-XPM<br>AT-MJ | 6-OVAL-M | 12-OVAL-M | |
| 5/32 | 4 | 18-4-P | 28-4-P | 618-4-P | 23 | 10.4 | 51-P-850<br>3-P-850 | 64-CGMP*<br>63V-XPM* | 51-P-850 HEAD<br>3-P-850 HEAD | 64-CGMP HEAD<br>63V-XPM HEAD<br>3V-CGMP HEAD | 12-OVAL-P | OVAL P | AT-P<br>AT-CGMP<br>AT-XPM | 6-OVAL-P | 12-OVAL-P | |
| 3/16 | 5 | 18-6-X | 28-6-X | 618-6-X | 49 | 22.2 | 51-X-850<br>3-X-850 | 63V-XPM*<br>3V-F6:X:M | 51-X-850 HEAD<br>3-X-850 HEAD | 63V-XPM HEAD<br>3V-F6:X:M HEAD | 12-OVAL-X | OVAL X | AT-X<br>AT-XPM<br>AT-X-F6** | 6-OVAL-X | 12-OVAL-X | |
| 7/32 | 6 | 18-8-F2 | 28-8-F2 | 618-8-F2 | 48 | 22 | 51-F2-850<br>3-F2-850 | | 51-F2-850 HEAD<br>3-F2-850 HEAD | | 12-OVAL-F2 | OVAL F2 | AT-F2 | 6-OVAL-F2 | 12-OVAL-F2 | |
| 1/4 | | 18-10-F6 | 28-10-F6 | 618-10-F6 | 78 | 35 | 3-F6-950 | 3-V-F6:X:M | 3-F6-950 HEAD | 3-V-F6:X:M HEAD | 12-OVAL-F6 | OVAL F6 | AT-F6**<br>AT-X-F6** | 6-OVAL-F6 | 12-OVAL-F6 | |
| 5/16 | 8 | 18-13-G9 | 28-13-G9 | 618-13-G9 | 114 | 51.7 | 3-G9-950 | | 3-G9-950 HEAD | | 12-OVAL-G9 | OVAL G9 | AT-G9** | 6-OVAL-G9 | 6-OVAL-G9 | |
| 3/8 | 9-10 | 18-23-H5 | 28-23-H5 | 618-23-H5 | 153 | 69 | 3-H5-950 | | 3-H5-950 HEAD | | 12-OVAL-H5 | OVAL H5 | | 6-OVAL-H5 | 12-OVAL-H5 | |
| 7/16 | 11 | 18-24-J8 | 28-24-J8 | 618-24-J8 | 302 | 137 | | | | | 12-OVAL-J8 | OVAL J8 | | | 12-OVAL-J8 | |
| 1/2 | 12-13 | 18-25-K8 | 28-25-K8 | 618-25-K8 | 410 | 186 | | | | | 12-OVAL-K8 | OVAL K8 | | | 12-OVAL-K8 | |
| 9/16 | 14 | 18-27-M1 | 28-27-M1 | 618-27-M1 | 551 | 250 | | | | | | OVAL M1 | | | | |
| 5/8 | 16 | 18-28-N5 | 28-28-N5 | 618-28-N5 | 802 | 364 | | | | | | OVAL N5 | | | | |

*Model also available with cable cutter. Specify 64-CGMP/cutter tool or 63V-XPM/cutter tool.
**Must be crimped using accessory booster kit.




A range of Nicopress® Copper and Zinc-Plated Copper sleeves are engraved with the correct wire size and groove. This aids users to identify the correct sleeve, rope diameter & swaging tool groove. Also provides a visual quality assurance check.

# NICOPRESS Stainless Steel Oval Sleeves

| FOR STAINLESS STEEL AIRCRAFT CONTROL CABLE & WIRE ROPE | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| NICOPRESS OVAL SLEEVES | | | | | NICOPRESS APPLICATION TOOL SELECTION | | | | | | |
| CABLE SIZE | | OVAL SLEEVE | APPROX WT (PER 1000/M) | | HAND TOOLS | | BENCH TOOL HEAD | HYDRAULIC TOOLS | | AT-PNEUMATIC | BATTERY TOOLS |
| in | mm | STAINLESS STEEL | lb | kg | SINGLE-GROOVE | MULTI-GROOVE | SINGLE-GROOVE | 3512 DIE | 635 DIE | POWER HEAD | 5612M DIE |
| 1/32 | 1 | 168-1-VB | 0.5 | 0.2 | 31-B | | | | | | |
| 3/64 | 1.2-1.5 | 168-1.5-VB4 | 1.5 | 0.7 | 51-B4-887 | 33V-CGB4 | 51-B4-887 HEAD | 12-OVAL-B4 | OVAL B4 | AT-B4 | 12-OVAL-B4 |
| 1/16 | 2 | 168-2-VB4 | 1.5 | 0.7 | 51-B4-887 | | 51-B4-887 HEAD | 12-OVAL-B4 | OVAL B4 | AT-B4 | 12-OVAL-B4 |
| 3/32 | 2.5 | 168-3-VC | 2.3 | 1 | 51-C-887<br>3-C-887 | | 51-C-887 HEAD<br>3-C-887 HEAD | 12-OVAL-C | OVAL C | AT-C | 12-OVAL-C |
| 1/8 | 3.5 | 168-4-VG | 3.8 | 1.7 | 51-G-887<br>3-G-887 | | 51-G-887 HEAD<br>3-G-887 HEAD | 12-OVAL-G | OVAL G | AT-G | 12-OVAL-G |
| 5/32 | 4 | 168-5-VM | 14 | 6.3 | 51-M-850<br>3-M-850 | | 51-M-850 HEAD<br>3-M-850 HEAD | 12-OVAL-M | OVAL M | AT-M | 12-OVAL-M |
| 3/16 | 5 | 168-6-VP | 21 | 9.5 | 51-P-850 | | 51-P-850 HEAD | 12-OVAL-P | OVAL 168-6-VP | AT-P | 12-OVAL-P |
| 7/32 | | 168-7-VX | 31 | 14.1 | 3-X-950 | | 3-X-950 HEAD | 12-OVAL-X | OVAL X | AT-X** | |
| 1/4 | 6 | 168-8-VF2 | 44 | 20 | 3-F2-950 | | 3-F2-950 HEAD | 12-OVAL-F2 | OVAL F2 | AT-F2** | 12-OVAL-F2 |
| 5/16 | 8 | 168-10-VF6 | 57 | 25.9 | | | | 12-168-F6 | OVAL 168-10-F6 | | 12-168-F6 |

**Must be crimped using accessory booster kit.

# NICOPRESS Tin-Plated Copper Oval Sleeves

| FOR STAINLESS STEEL AIRCRAFT CONTROL CABLE & WIRE ROPE | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NICOPRESS OVAL SLEEVES | | | | | NICOPRESS APPLICATION TOOL SELECTION | | | | | | | | |
| CABLE SIZE | | OVAL SLEEVE | APPROX WT (PER 1000/M) | | HAND TOOLS | | BENCH TOOL HEAD | | HYDRAULIC TOOLS | | AT-PNEUMATIC | BATTERY TOOLS | |
| in | mm | TIN-PLATED COPPER | lb | kg | SINGLE-GROOVE | MULTI-GROOVE | SINGLE-GROOVE | MULTI-GROOVE | 3512 DIE | 635 DIE | POWER HEAD | 5606M DIE | 5612M DIE |
| 3/64 | 1-1.2 | 428-1.5-VB4 | 2 | 0.9 | 51-B4-887<br>31-B4 | 17-B4B<br>33V-CGB4 | 51-B4-887 HEAD | | 12-OVAL-B4 | OVAL B4 | AT-B4 | 6-OVAL-B4 | 12-OVAL-B4 |
| 1/16 | 1.5 | 428-2-VC | 3 | 1.4 | 51-C-887<br>3-C-887 | 33V-CGB4<br>32-VC-VG<br>64-CGMP*<br>3V-CGMP | 51-C-887 HEAD<br>3-C-887 HEAD | 64-CGMP HEAD<br>3V-CGMP HEAD | 12-OVAL-C | OVAL C | AT-C<br>AT-CGMP | 6-OVAL-C | 12-OVAL-C |
| 3/32 | 2-2.5 | 428-3-VG | 6 | 2.7 | 51-G-887<br>3-G-887 | 33V-CGB4<br>32-VC-VG<br>64-CGMP*<br>3V-CGMP | 51-G-887 HEAD<br>3-G-887 HEAD | 64-CGMP HEAD<br>3V-CGMP HEAD | 12-OVAL-G | OVAL G | AT-G<br>AT-CGMP | 6-OVAL-G | 12-OVAL-G |
| 1/8 | 3.5 | 428-4-VM | 17 | 7.7 | 51-M-850<br>3-M-850 | 64-CGMP*<br>63V-XPM*<br>51-MJ<br>3V-F6:X:M<br>3-MJ<br>3V-CGMP | 51-M-850 HEAD<br>3-M-850 HEAD | 64-CGMP HEAD<br>63V-XPM HEAD<br>51-MJ HEAD<br>3V-CGMP HEAD<br>3V-F6:X:M HEAD<br>3-MJ head | 12-OVAL-M | OVAL M | AT-M<br>AT-CGMP<br>AT-XPM<br>AT-MJ | 6-OVAL-M | 12-OVAL-M |
| 5/32 | 4 | 428-5-VP | 23 | 10.4 | 51-P-850<br>3-P-850 | 64-CGMP*<br>63V-XPM*<br>3V-CGMP | 51-P-850 HEAD<br>3-P-850 HEAD | 64-CGMP HEAD<br>63V-XPM HEAD<br>3V-CGMP HEAD | 12-OVAL-P | OVAL P | AT-P<br>AT-CGMP<br>AT-XPM | 6-OVAL-P | 12-OVAL-P |
| 3/16 | 5 | 428-6-VX | 49 | 22.2 | 51-X-850<br>3-X-850 | 63V-XPM*<br>3V-F6:X:M | 51-X-850 HEAD<br>3-X-850 HEAD | 63V-XPM HEAD<br>3V-F6:X:M HEAD | 12-OVAL-X | OVAL X | AT-X<br>AT-XPM<br>AT-X-F6 | 6-OVAL-X | 12-OVAL-X |
| 7/32 | 6 | 428-7-VF2 | 47 | 26.7 | 51-F2-850 | | 51-F2-850 HEAD | | 12-OVAL-F2 | OVAL F2 | AT-F2 | 6-OVAL-F2 | 12-OVAL-F2 |
| 1/4 | 7 | 428-8-VF6 | 75 | 36.7 | 3-F6-950 | 3V-F6:X:M | 3-F6-950 HEAD | 3V-F6:X:M HEAD | 12-OVAL-F6 | OVAL F6 | AT-F6**<br>AT-X-F6** | 6-OVAL-F6 | 12-OVAL-F6 |
| 5/16 | 8 | 428-10-VG9 | 120 | 54.4 | 3-G9-950 | | 3-G9-950 HEAD | | 12-OVAL-G9 | OVAL G9 | AT-G9** | 6-OVAL-G9 | 12-OVAL-G9 |
| 3/8 | 9-10 | 428-12-VH5 | 155 | 70.3 | 3-H5-950 | | 3-H5-950 HEAD | | 12-OVAL-H5 | OVAL H5 | | 6-OVAL-H5 | 12-OVAL-H5 |
| 7/16 | 11-12 | 428-14-VJ8 | 310 | 140.6 | | | | | 12-OVAL-J8 | OVAL J8 | | | 12-OVAL-J8 |
| 1/2 | 13 | 428-16-VK8 | 420 | 190.5 | | | | | 12-OVAL-K8 | OVAL K8 | | | 12-OVAL-K8 |
| 9/16 | 14 | 428-18-VM1 | 565 | 256.3 | | | | | | OVAL M1 | | | |
| 5/8 | 16 | 428-20-VN5 | 822 | 372.8 | | | | | | OVAL N5 | | | |

*Model also available with cable cutter. Specify 64-CGMP/cutter tool or 63V-XPM/cutter tool.
**Must be crimped using accessory booster kit.

# NICOPRESS Aluminum Oval Sleeves

| FOR STEEL AIRCRAFT CONTROL CABLE & WIRE ROPE | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NICOPRESS OVAL SLEEVES | | | | | NICOPRESS APPLICATION TOOL SELECTION | | | | | | | | |
| CABLE SIZE | | OVAL SLEEVE | APPROX WT (PER 1000/M) | | HAND TOOLS | | BENCH TOOL HEAD | | HYDRAULIC TOOLS | | AT-PNEUMATIC | BATTERY TOOLS | |
| in | mm | ALUMINUM | lb | kg | SINGLE-GROOVE | MULTI-GROOVE | SINGLE-GROOVE | MULTI-GROOVE | 3512 DIE | 635 DIE | POWER HEAD | 5606M DIE | 5612M DIE |
| 3/64 | 1 | 188-1.5 VB4 | 0.7 | 0.3 | 31-B4<br>51-B4-887 | 17-B4B<br>33V-CGB4 | 51-B4-887 HEAD | | 12-OVAL-B4 | OVAL-B4 | AT-B4 | 6-188-B4 | 12-OVAL-B4 |
| 1/16 | 1.5 | 188-2-VC | 1 | 0.4 | 51-C-887<br>3-C-887 | 33V-CGB4<br>32-VC-VG<br>64-CGMP*<br>3V-CGMP | 51-C-887 HEAD<br>3-C-887 HEAD | 64-CGMP HEAD<br>3V-CGMP HEAD | 12-OVAL-C | OVAL C | AT-C<br>AT-CGMP | 6-188-C | 12-OVAL-C |
| 3/32 | 2-2.5 | 188-3-VG | 2.8 | 1.3 | 51-G-887<br>3-G-887 | 33V-CGB4<br>32-VC-VG<br>64-CGMP* | 51-G-887 HEAD<br>3-G-887 HEAD | 64-CGMP HEAD<br>3V-CGMP HEAD | 12-188-VG | 188-VG | AT-G<br>AT-CGMP | 6-188-G | 12-188-VG |
| 1/8 | 3-3.5 | 188-4-VM | 6.1 | 2.8 | 51-M-850 | 64-CGMP*<br>63V-XPM*<br>51-MJ<br>3V-F6:X:M<br>3-MJ<br>3V-CGMP | 51-M-850 HEAD<br>3-M-850 HEAD | 64-CGMP HEAD<br>63V-XPM HEAD<br>51-MJ HEAD<br>3V-CGMP HEAD<br>3V-F6:X:M HEAD<br>3-MJ HEAD | 12-188-VM | 188-VM | AT-M<br>AT-CGMP<br>AT-XPM<br>AT-MJ | 6-188-M | 12-188-VM |
| 5/32 | 4 | 188-5-VP | 9 | 4 | 51-P-850 | 64-CGMP*<br>63V-XPM*<br>3V-CGMP | 51-850 HEAD<br>3-P-850 HEAD | 64-CGMP HEAD<br>63V-XPM HEAD<br>3V-CGMP HEAD | 12-188-VP | 188-VP | AT-P<br>AT-CGMP<br>AT-XPM | 6-188-P | 12-188-VP |
| 3/16 | 5 | 188-6-VX | 16 | 7 | 51-X-850 | 63V-XPM*<br>3V-F6:X:M | 51-X-850 HEAD<br>3-X-850 HEAD | 63V-XPM HEAD<br>3V-F6:X:M HEAD | 12-188-VX | 188-VX | AT-X<br>AT-XPM<br>AT-X-F6** | 6-188-VX | 12-188-VX |
| 1/4 | – | 188-8-VF6 | 27 | 12 | 3-F6-950 | 3V-F6:X:M | 3-F6-950 HEAD | 3V-F6:X:M HEAD | 12-188-VF6 | 188-VF6 | AT-F6**<br>AT-X-F6** | 6-188-F6 | 12-188-F6 |
| 9/32 | 7 | 188-9-VG2 | 30 | 13.6 | 3-G2-950 | | 3-G2-950 HEAD | | 12-VG-2 | VG-2 | AT-G2** | | |
| 5/16 | 8 | 188-10-VG92 | 48 | 22 | 3-G9-950 | | 3-G9-950 HEAD | | 12-VG92 | VG-92 | AT-G9** | 6-188-VG9 | 12-VG92 |
| 3/8 | 9 | 188-12-VH5 | 65 | 47 | 3-H5-950 | | 3-H5-950 HEAD | | 12-OVAL-H5 | OVAL H5 | | | 12-OVAL-H5 |
| 7/16 | 10-11 | 188-14-VK8 | 115 | 52 | | | | | 12-OVAL-K8 | OVAL K8 | | | 12-OVAL-K8 |
| 1/2 | – | 188-16-VM1 | 172 | 78 | | | | | 12-188-VM1 | 188-VM1 | | | |

*Model also available with cable cutter. Specify 64-CGMP/cutter tool or 63V-XPM/cutter tool.
**Must be crimped using accessory booster kit.

# NICOPRESS Aluminum Oval Sleeves for Synthetic & Fiber Rope

| FOR SYNTHETIC ROPE | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NICOPRESS OVAL SLEEVES | | | | | NICOPRESS APPLICATION TOOL SELECTION | | | | | | | |
| CABLE SIZE | | OVAL SLEEVE | APPROX WT (PER 1000/M) | | HAND TOOLS | | BENCH TOOL HEAD | | HYDRAULIC TOOLS | | AT-PNEUMATIC | BATTERY TOOLS |
| in | mm | ALUMINUM | lbs | kg | SINGLE-GROOVE | MULTI-GROOVE | SINGLE-GROOVE | MULTI-GROOVE | 3512 DIE | 635 DIE | POWER HEAD | 5612M DIE |
| 1/16 | 1.5 | 1700-C | 1 | 0.4 | 51-C-887 | 64-CGMP | 51-C-887 HEAD<br>3-C-887 HEAD | 64-CGMP HEAD<br>3V-CGMP HEAD | 12-OVAL-C | OVAL C | AT-C<br>AT-CGMP | 12-1700-C |
| 1/8 | 3 | 1700-M | 7 | 3.2 | 51-M-850<br>3-M-850 | 64-CGMP<br>63V-XPM | 51-M-850 HEAD<br>3-M-850 HEAD | 64-CGMP HEAD<br>63V-XPM HEAD<br>3V-CGMP HEAD | 12-1700-M | 1700-M | AT-M<br>AT-CGMP<br>AT-XPM | 12-1700-M |
| 3/16 | 5 | 1582-P | 9 | 4.1 | 51-P-850<br>3-P-850 | 64-CGMP<br>63V-XPM | 51-P-850 HEAD<br>3-P-850 HEAD | 64-CGMP HEAD<br>63V-XPM HEAD<br>3V-CGMP HEAD | 12-1582-P | 1582-P | AT-P<br>AT-CGMP<br>AT-XPM | 12-1582-P |
| 1/4 | 6 | 1700-X | 20 | 9 | 51-X-850<br>3-X-850 | 63V-XPM | 51-X-850 HEAD<br>3-X-850 HEAD | 63V-XPM HEAD | 12-1700-X | 1700-X | AT-X<br>AT-XPM | 12-1700-X |
| 5/16 | 8 | 1700-G3 | 30 | 13.6 | | | | | 12-1700-G3 | 1700-G3 | | 12-1700-G3 |
| 3/8 | 10 | 1700-H5 | 63 | 28.5 | | | | | 12-1700-H5 | 1700-H5 | | 12-1700-H5 |
| 1/2 | 12 | 1700-J8 | 110 | 50 | | | | | 12-1700-J8 | 1700-J8 | | 12-1700-J8 |

# NICOPRESS Aluminum Stop Sleeves

| FOR STEEL AIRCRAFT CONTROL CABLE & WIRE ROPE | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NICOPRESS STOP SLEEVES | | | | | NICOPRESS APPLICATION TOOL SELECTION | | | | | | | | |
| CABLE SIZE | | STOP SLEEVE | APPROX WT (PER 1000/M) | | HAND TOOLS | | BENCH TOOL HEAD | | HYDRAULIC TOOLS | | AT-PNEUMATIC | BATTERY TOOLS | |
| in | mm | ALUMINUM | lb | kg | SINGLE-GROOVE | MULTI-GROOVE | SINGLE-GROOVE | MULTI-GROOVE | 3512 DIE | 635 DIE | POWER HEAD | 5606M DIE | 5612M DIE |
| 1/16 | 1-1.5 | 878-2-VC | 0.83 | 0.4 | 51-C-887 | 33V-CGB4<br>32-VC-VG<br>64-CGMP* | 51-C-887 HEAD<br>3-C-887 HEAD | 64-CGMP HEAD<br>3V-CGMP HEAD | 12-OVAL-C | OVAL C | AT-C<br>AT-CGMP | 6-OVAL-C | 12-OVAL-C |
| 3/32 | 2-2.5 | 878-3-J | 3 | 1.4 | | 51-MJ<br>3-MJ | | 51-MJ HEAD<br>3-MJ HEAD | 12-J | 878-J | AT-MJ | 6-J | 12-J |
| 1/8 | 3 | 878-4-J | 3 | 1.4 | | 51-MJ<br>3-MJ | | 51-MJ HEAD<br>3-MJ HEAD | 12-J | 878-J | AT-MJ | 6-J | 12-J |
| 5/32 | 4 | 878-5-M | 4.8 | 2.2 | | 51-MJ<br>3-MJ | | 51-MJ HEAD<br>3-MJ HEAD | 12-M | 878-M | AT-MJ | 6-OVAL-M | 12-M |
| 3/16 | 5 | 878-6-M | 4.3 | 2 | | 51-MJ<br>3-MJ | | 51-MJ HEAD<br>3-MJ HEAD | 12-M | 878-M | AT-MJ | 6-OVAL-M | 12-M |
| 1/4 | 6 | 878-8-VF6 | 21 | 9.5 | 3-F6-950 | 3V-F6:X:M | 3-F6-950 HEAD | 3V-F6:X:M HEAD | 12-OVAL-F6 | OVAL-F6 | AT-F6**<br>AT-X-F6** | 6-OVAL-F6 | 12-OVAL-F6 |
| 5/16 | 8 | 878-10-VF6 | 19 | 8.3 | 3-F6-950 | 3V-F6:X:M | 3-F6-950 HEAD | 3V-F6:X:M HEAD | 12-OVAL-F6 | 878-VF6 | AT-F6**<br>AT-X-F6** | 6-OVAL-F6 | 12-OVAL-F6 |
| 3/8 | 10 | 878-12-VF6 | 16 | 7 | 3-F6-950 | 3V-F6:X:M | 3-F6-950 HEAD | 3V-F6:X:M HEAD | 12-OVAL-F6 | 878-VF6 | AT-F6**<br>AT-X-F6** | | 12-OVAL-F6 |

*Model also available with cable cutter. Specify 64-CGMP/cutter tool or 63V-XPM/cutter tool.
**Must be crimped using accessory booster kit.
NOTE: Stop sleeves typically hold between 30-50% of the RBS of the cable.

# NICOPRESS Copper/Zinc-Plated Copper Stop Sleeves

| FOR STEEL AIRCRAFT CONTROL CABLE & WIRE ROPE | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| NICOPRESS STOP SLEEVES | | | | | | NICOPRESS APPLICATION TOOL SELECTION | | | | | | | | |
| CABLE SIZE | | STOP SLEEVE | | APPROX WT (PER 1000/M) | | HAND TOOLS | | BENCH TOOL HEAD | | HYDRAULIC TOOLS | | AT-PNEUMATIC | BATTERY TOOLS | |
| in | mm | PLAIN COPPER | ZINC-PLATED COPPER | lb | kg | SINGLE-GROOVE | MULTI-GROOVE | SINGLE-GROOVE | MULTI-GROOVE | 3512 DIE | 635 DIE | POWER HEAD | 5606M DIE | 5612 DIE |
| 1/32 | - | 871-32-B | 872-32-B | 0.75 | 0.3 | 31-B | 17-BA<br>17-B4B | | | | 871-B | AT-B | | |
| 3/64 | 1-1.2 | 871-12-B4 | 872-12-B4 | 1.5 | 0.7 | 51-B4-887<br>31-B4 | 17-B4B<br>3V-F6:X:M | 51-B4-887 HEAD | | 12-OVAL-B4 | OVAL B4 | AT-B4 | 6-OVAL-B4 | 12-OVAL-B4 |
| 1/16 | 1.5 | 871-1-C | 872-1-C | 2 | 0.9 | 51-C-887 | 3V-F6:X:M<br>32-VC-VG<br>64-CGMP* | 51-C-887 HEAD<br>3-C-887 HEAD | 64-CGMP HEAD<br>3V-CGMP HEAD | 12-OVAL-C | OVAL C | AT-C<br>AT-CGMP | 6-OVAL-C | 12-OVAL-C |
| 1/16 | 1.5 | 871-1-Q^ | - | 2 | 0.9 | 51-Q-929 | | 51-Q-929 HEAD<br>3-Q-929 HEAD | | | 871-Q | AT-Q | | |
| 3/32 | 2-2.5 | 871-17-J<br>(yellow) | 872-17-J | 8 | 3.6 | | 51-MJ<br>3-MJ | | 51-MJ HEAD<br>3-MJ HEAD | 12-J | 871-J | AT-MJ | 6-J | 12-J |
| 3/32 | 2-2.5 | 871-3-Q^ | - | 2 | 0.9 | 51-Q-929 | | 51-Q-929 HEAD<br>3-Q-929 HEAD | | | 871-Q | AT-Q | | |
| 1/8 | 3-3.5 | 871-18-J<br>(red) | 872-18-J | 8 | 3.6 | | 51-MJ<br>3-MJ | | 51-MJ HEAD<br>3-MJ HEAD | 12-J | 871-J | AT-MJ | 6-J | 12-J |
| 5/32 | 4 | 871-19-M | 872-19-M | 13 | 5.9 | | 51-MJ<br>3-MJ | | 51-MJ HEAD<br>3-MJ HEAD | 12-1-M | 871-1-M | AT-MJ | 6-OVAL-M | 12-1-M |
| 3/16 | 5 | 871-20-M<br>(black) | 872-20-M | 12 | 5.4 | | 51-MJ<br>3-MJ | | 51-MJ HEAD<br>3-MJ HEAD | 12-1-M | 871-1-M | AT-MJ | 6-OVAL-M | 12-1-M |
| 7/32 | 6 | 871-22-M | 872-22-M | 20 | 9.1 | | 51-MJ<br>3-MJ | | 51-MJ HEAD<br>3-MJ HEAD | 12-1-M | 871-1-M | AT-MJ | 6-OVAL-M | 12-1-M |
| 1/4 | 7 | 871-23-F6 | 872-23-F6 | 60 | 27.2 | 3-F6-950 | 3V-F6:X:M | 3-F6-950 HEAD | 3V-F6:X:M HEAD | 12-OVAL-F6 | OVAL F6 | AT-F6**<br>AT-X-F6** | 6-OVAL-F6 | 12-OVAL-F6 |
| 5/16 | 8 | 871-26-F6 | 872-26-F6 | 55 | 27.2 | 3-F6-950 | 3V-F6:X:M | 3-F6-950 HEAD | 3V-F6:X:M HEAD | 12-OVAL-F6 | OVAL F6 | AT-F6**<br>AT-X-F6** | 6-OVAL-F6 | 12-OVAL-F6 |
| 3/8 | 9 | 871-27-F6 | 872-27-F6 | 45 | 27.2 | 3-F6-950 | 3V-F6:X:M | 3-F6-950 HEAD | 3V-F6:X:M HEAD | 12-OVAL-F6 | OVAL F6 | AT-F6**<br>AT-X-F6** | | 12-OVAL-F6 |

^Electro galvanized steel sleeves.
*Model also available with cable cutter. Specify 64-CGMP/cutter tool or 63V-XPM/cutter tool.
**Must be crimped using accessory booster kit.
NOTE: Stop sleeves typically hold between 30-50% of the RBS of the cable.

# NICOPRESS Tool & Sleeve and Splice Kits

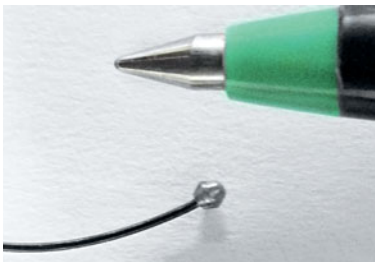
All kits include a comprehensive assortment of the most popular Nicopress® oval splicing and stop sleeve sizes, packed in a sturdy, latching, plastic carrying case. Kits 1 & 2 also include: swaging/cutting tool and tool gauge.

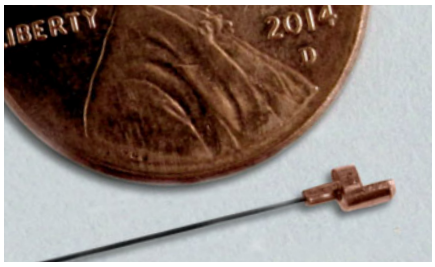
| KIT # | WIRE SIZE | | WEIGHT | |
|---|---|---|---|---|
| | in | mm | lbs | kg |
| 1 - Copper w/64-CGMP/Cutter Tool | 1/16-5/32 | 1.5-4 | 21 | 9.5 |
| 2 - Zinc/Copper w/63V-XPM/Cutter Tool | 1/8-3/16 | 1.5-4 | 21 | 9.5 |
| 3 - Copper | 1/32-1/4 | 0.75-7 | 2.6 | 1.2 |
| 4 - Zinc-Plated Copper | 1/32-1/4 | 0.75-7 | 2.6 | 1.2 |
| 5 - Tin-Plated Copper | 3/64-1/4 | 1-7 | 2.6 | 1.2 |
| 6 - Aluminum | 3/64-1/4 | 1-7 | 1.3 | 0.6 |

# NICOPRESS Micro-Cable Oval & Stop Sleeves

| FOR STEEL AIRCRAFT CONTROL CABLE & WIRE ROPE | | | | | | | |
|---|---|---|---|---|---|---|---|
| NICOPRESS OVAL SLEEVES | | | | | NICOPRESS APPLICATION TOOL SELECTION | | |
| CABLE SIZE | | OVAL SLEEVE | | | TOOL PART | PRESSES REQUIRED | TOOL GROOVE |
| in | mm | PLAIN COPPER | ZINC-PLATED COPPER | TIN-PLATED COPPER | | | |
| 0.008-0.021 | 0.20 | 16-1-A | | | 17-BA | 3 | A |
| 0.022-0.027 | 0.52 | 16-2-A | | | 17-BA | 3 | A |
| 0.027-1/32 | 0.75 | 17-1-B | 27-1-B | | 17-BA 17-B4B | 2 | B |
| 3/64 | 1-1.2 | 18-11-B4 | 28-11-B4 | 428-1.5-VB4 | 17-B4B | 3 | B4 |

| NICOPRESS STOP SLEEVES | | | | NICOPRESS APPLICATION TOOL SELECTION | | |
|---|---|---|---|---|---|---|
| CABLE SIZE | | STOP SLEEVE | | TOOL PART | PRESSES REQUIRED | TOOL GROOVE |
| in | mm | PLAIN COPPER | ZINC-PLATED COPPER | | | |
| 1/32 | 0.75 | 871-32-B | 872-32-B | 17-BA 17-B4B | 2 | B |
| 3/64 | 1-1.2 | 871-12-B4 | 872-12-B4 | 17-B4B | 2 | B4 |






Above images are custom micro sleeve solutions.

# NICOPRESS Hand Tools

Engineered for field conditions, Nicopress® tools are made from drop-forged alloy steel with heat treated and specially hardened working surfaces. Tools are designed to create maximum metal flow of the splicing sleeve around the wire or conductor which results in strong, reliable splices. Tools have single- or multiple-marked pressing grooves matching similar markings found on Nicopress® sleeves. Go gauges are supplied with toggle action tools to ensure accurate sleeve compression.

## 17 Series

Lightweight, handy field manual tool. Ideal for use with small diameter cable and in confined spaces.


### 17-BA

| | |
|---|---|
| **Length** | 8.25" (21cm) |
| **Weight** | 0.75 lbs (0.34kg) |
| **Wire Size** | 1/32" |
| **Oval Sleeve** | 17-1-B, 27-1-B |
| **Stop Sleeve** | 871-32-B |
| **Groove** | A, B |


### 17-B4B

| | |
|---|---|
| **Length** | 8.25" (21cm) |
| **Weight** | 0.75 lbs (0.34kg) |
| **Wire Size** | 1/32", 3/64" (1mm to 1.2mm) |
| **Oval Sleeve** | 17-1-B, 27-1-B, 18-11-B4, 28-11-B4, 428-1.5-VB4, 188-1.5-VB4 |
| **Stop Sleeve** | 871-32-B, 871-12-B4 |
| **Groove** | B, B4 |

## 30 Series

Multi-groove toggle action hand tool. Recommended when several small diameter cables are being used.

### 31-B

| | |
|---|---|
| **Length** | 11.25" (28.6cm) |
| **Weight** | 2.5 lbs (1.13kg) |
| **Wire Size** | 1/32" (1mm) |
| **Oval Sleeve** | 17-1-B, 27-1-B, 168-1-VB |
| **Stop Sleeve** | 871-32-B |
| **Groove** | B |

### 31-B4

| | |
|---|---|
| **Length** | 8.25" (21cm) |
| **Weight** | 2.5 lbs (1.13kg) |
| **Wire Size** | 3/64" (1mm to 1.2mm) |
| **Oval Sleeve** | 18-11-B4, 28-11-B4, 428-1.5-VB4, 188-1.5-VB4 |
| **Stop Sleeve** | 871-12-B4 |
| **Groove** | B4 |

### 32-VC-VG

| | |
|---|---|
| **Length** | 11.25" (28.6cm) |
| **Weight** | 2.5 lbs (1.13kg) |
| **Wire Size** | 1/16" (1mm) to 3/32" (2.5mm) |
| **Oval Sleeve** | 18-1-C, 28-1-C, 18-2-G, 28-2-G, 428-2-VC, 428-3-VG, 188-2-VC, 188-3-VG |
| **Stop Sleeve** | 871-1-C, 878-2-VC |
| **Sleeve Size** | 3/64" 0mm (B-4), 1/16" 0mm (C), 3/32" 0mm (G) |
| **Groove** | VC, VG |

### 33V-CGB4

| | |
|---|---|
| **Length** | 11.75" (30cm) |
| **Weight** | 2.5 lbs (1.13kg) |
| **Wire Size** | 3/64" (1mm) to 3/32" (2.5mm) |
| **Oval Sleeve** | 18-11-B4, 28-11-B4, 18-1-C, 28-1-C, 18-2-G, 28-2-G, 168-1.5-VB4, 428-1.5-VB4, 428-2-VC, 428-3-VG, 188-1.5-VB4, 188-2-VC, 188-3-VG |
| **Stop Sleeve** | 871-12-B4, 871-1-C, 878-2-VC |
| **Groove** | VC, VG, VB4 |

# 51 Series

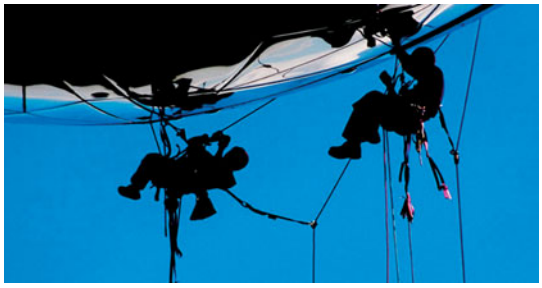
Toggle action tools available in single- and multi-groove. Useful when several small diameter cables are being used.

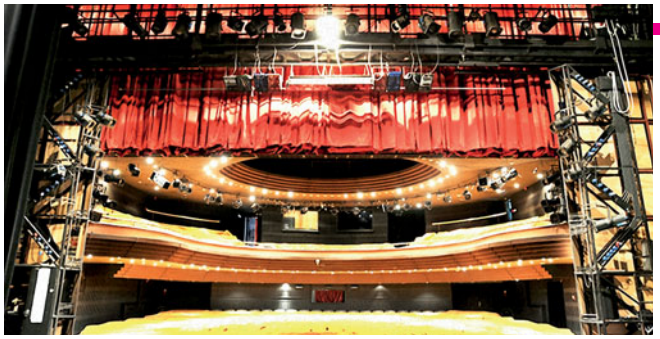
## 51-Single-Groove Hand Tools

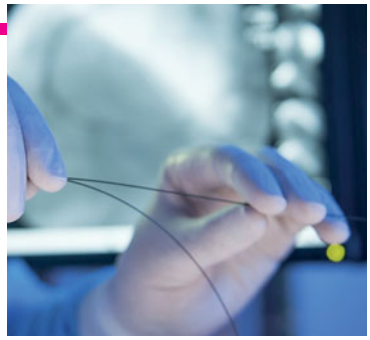
| Single-Groove Tool Listing | |
|---|---|
| | 51-B4-887, 51-C-887, 51-G-887, 51-M-850, |
| | 51-P-850, 51-X-850, 51-F2-850, 51-Q-929 |
| **Length** | 18.75" (45cm) |
| **Weight** | 5.25 lbs (2.4kg) |
| **Wire Size** | 3/64" (1mm) to 1/4" (6mm ) |
| **Oval Sleeve** | varies by tool groove |
| **Stop Sleeve** | varies by tool groove |
| **Groove** | B4, C, G, M, P, X, F2, Q |

## 51-MJ

| | |
|---|---|
| **Length** | 18.75" (45cm) |
| **Weight** | 5.25 lbs (2.4kg) |
| **Wire Size** | 3/32" (2mm) to 7/32" (6mm) |
| **Oval Sleeve** | 18-3-M, 28-3-M, 428-4-VM, 188-4-VM |
| **Stop Sleeve** | 871-17-J, 871-18-J, 871-19-M, 871-20-M, |
| | 871-22-M, 878-3-J, 878-4-J, 878-5-M, 878-6-M |
| **Groove** | M, J |







# 60 Series

Multi-groove toggle action adjustable hand tool. Recommended when several small diameter cables are being used. Also available with fiberglass handles and in a cutter combination.

## 64-CGMP

| | |
|---|---|
| **Length** | 20" (51cm) |
| **Weight** | 6 lbs (2.7kg) |
| **Wire Size** | 1/16" (1mm) to 5/32" (4mm) |
| **Oval Sleeve** | 18-1-C, 28-1-C, 18-2-G, 28-2-G, 18-3-M, 28-3-M, 18-4-P, 28-4-P, 428-2-VC, 428-3-VG, 428-4-VM, 428-5-VP, 188-2-VC, 188-3-VG, 188-4-VM, 188-5-VP, 1700-C, 1700-M, 1582-P |
| **Stop Sleeve** | 871-1-C, 878-2-VC |
| **Groove** | C, G, M, P |

## 64-CGMP w/Cable Cutter

| | |
|---|---|
| **Length** | 20" (51cm) |
| **Weight** | 6 lbs (2.7kg) |
| **Wire Size** | 1/16" (1mm) to 5/32" (4mm) |
| **Oval Sleeve** | 18-1-C, 28-1-C, 18-2-G, 28-2-G, 18-3-M, 28-3-M, 18-4-P, 28-4-P, 428-2-VC, 428-3-VG, 428-4-VM, 428-5-VP, 188-2-VC, 188-3-VG, 188-4-VM, 188-5-VP, 1700-C, 1700-M, 1582-P |
| **Stop Sleeve** | 871-1-C, 878-2-VC |
| **Cutting Capacity** | up to 3/16" (5mm) |
| **Groove** | C, G, M, P |

## 63V-XPM

| | |
|---|---|
| **Length** | 20.5" (52.1cm) |
| **Weight** | 6 lbs (2.7kg) |
| **Wire Size** | 1/8" (3mm) to 3/16" (5mm) |
| **Oval Sleeve** | 18-3-P, 28-3-P, 18-4-P, 28-4-P, 18-6-X, 28-6-X, 428-4-VM, 428-5-VP, 428-6-VX, 188-4-VM, 188-5-VP, 188-6-VX, 1700-M, 1582-P, 1700-X |
| **Stop Sleeve** | none |
| **Groove** | VM, VP, VX |

## 63V-XPM w/Cable Cutter

| | |
|---|---|
| **Length** | 20.5" (52.1cm) |
| **Weight** | 6 lbs (2.7kg) |
| **Wire Size** | 1/8" (3mm) to 3/16" (5mm) |
| **Oval Sleeve** | 18-3-P, 28-3-P, 18-4-P, 28-4-P, 18-6-X, 28-6-X, 428-4-VM, 428-5-VP, 428-6-VX, 188-4-VM, 188-5-VP, 188-6-VX, 1700-M, 1582-P, 1700-X |
| **Stop Sleeve** | none |
| **Cutting Capacity** | up to 3/16" (5mm) |
| **Groove** | VM, VP, VX |

# NICOPRESS Hand Tools

## 3 Series

Recommended when larger diameter cables are being used. Single- and multi-groove toggle action hand tools.

### 3-H5-950

| | |
|---|---|
| **Length** | 33.5" (85cm) |
| **Weight** | 15 lbs (6.8kg) |
| **Wire Size** | 3/8" (9-10mm) |
| **Oval Sleeve** | 18-23-H5, 28-23-H5, 188-12-VH5, 618-23-H5 |
| **Groove** | F2 |

### 3-G9-950

| | |
|---|---|
| **Length** | 33.5" (85cm) |
| **Weight** | 15 lbs (6.8kg) |
| **Wire Size** | 5/16" (8mm) |
| **Oval Sleeve** | 18-13-G9, 28-13-G9, 428-10-VG9, 188-10-VG92 |
| **Groove** | G9 |

### 3-F6-950

| | |
|---|---|
| **Length** | 33.5" (85cm) |
| **Weight** | 15 lbs (6.8kg) |
| **Wire Size** | 1/4" (6mm) to 3/8" (10mm) |
| **Oval Sleeve** | 18-10-F6, 28-10-F6, 428-8-VF6, 188-8-VF6 |
| **Stop Sleeve** | 871-23-F6, 871-26-F6, 871-27-F6, 878-8-VF6, 878-10-VF6, 878-12-VF6 |
| **Groove** | F6 |

### 3V-F6:X:M

| | |
|---|---|
| **Length** | 34.5" (88cm) |
| **Weight** | 14 lbs (6.4kg) |
| **Wire Size** | 1/8" (3mm) to 3/8" (10mm) |
| **Oval Sleeve** | 18-3-M, 28-3-M, 18-6-X, 28-6-X, 18-10-F6, 28-10-F6, 428-4-VM, 428-6-VX, 428-8-VF6, 188-4-VM, 188-6-VX, 188-8-VF6 |
| **Stop Sleeve** | 871-23-F6, 871-26-F6, 871-27-F6, 878-8-VF6, 878-10-VF6, 878-12-VF6 |
| **Groove** | VM, VX, VF6 |

# NICOPRESS Bench Mounted Compression Tools

Tools are designed to speed up bench type cable assembly work by allowing one-handed operation of bench press. This frees the other hand to position the sleeve and cable. Available in two sizes.
*Head for bench tool must be ordered separately.*

## 510

| | |
|---|---|
| **Length** | 21" (53cm) |
| **Weight** | 6 lbs (2.7kg) |
| **Wire Size** | 1/16" (1.5mm) to 7/32" (6mm) |
| **Accommodates Interchangeable Tool HEADS (sold separately)** | |
| | 51-B4-887 HEAD, 51-C-887 HEAD, |
| | 51-G-887 HEAD, 51-X-850 HEAD, |
| | 51-F2-850 HEAD, 51-M-850 HEAD, |
| | 51-P-850 HEAD, 51-MJ HEAD, 51-Q-929 HEAD, |
| | 64-CGMP, 63-V-XPM HEAD |
| **Available HEAD Grooves (sold separately)** | |
| | Single-Groove: B4, C, G, X, F2, M, Q, P, |
| | Multi-Groove: MJ, CGMP, XPM |

## 300

| | |
|---|---|
| **Length** | 35" (89cm) |
| **Weight** | 19 lbs (8.6kg) |
| **Wire Size** | 1/16" (1.5mm) to 3/8" (10mm) |
| **Accommodates Interchangeable Tool HEADS (sold separately)** | |
| | 3-C-887 HEAD, 3-G-887 HEAD, 3-M-850 HEAD, |
| | 3-P-850 HEAD, 3-X-850 HEAD, 3-F2-850 HEAD, |
| | 3-F6-950 HEAD, 3-G9-950 HEAD, 3-Q-929 HEAD, |
| | 3V-CGMP HEAD, 3-F6:X:M HEAD, 3-MJ HEAD, |
| | 3-H5-950 HEAD, 3V-F6:X:M HEAD, |
| | 3V-XPM HEAD |
| **Available HEAD Grooves (sold separately)** | |
| | Single-Groove: C, G, M, P, X, F2, F6, G9, H5, Q |
| | Multi-Groove: MJ, CGMP, F6:X:M, XPM |

# NICOPRESS Battery Powered Compression Tool & Die

## 5606M
## 6-ton In-Line Battery Swaging Tool

- Lightweight ergonomic design for easy one-handed operation
- 180-degree rotating head with forged jaws and protective brush guards
- Supplied with 2 Makita batteries and 120VAC charger for continuous operation
- Batteries have a state-of-charge indicator and tool has LED lighting

| | |
|---|---|
| **Weight** | 8 lbs (3.6kg) w/battery |
| **Dimensions** | 18"L x 4"H x 3"W |
| | (457mm L x 102mm H x 76mm W) |
| **Wire Rope Sizes** | 3/64" to 3/8" (1mm to 10mm) |
| **Battery** | 2 Makita 18V Lithium-Ion 5.0Ah (BL1850B) |
| **AC Battery Charger** | Makita 18V Lithium-Ion 120VAC (DC18RC) |
| **Wrist Strap** | Yes |
| **Carrying Bag** | Yes |
| **Approx. No. of Crimps** | 400 |
| **Die Selection** | See die selection table below |

**Tool only also available**


# NICOPRESS Oval Sleeve Die Selection

The below table includes some of the more common tool and die combinations for wire rope applications.
Note that for proper die selection you need to match the cable size, sleeve type and tool.
Refer to pages 2 through 7 in this catalog.



| Cable Size | | Tool 5606M | Tools 3512, 5612M | Tool 635 |
|---|---|---|---|---|
| in | mm | | | |
| 3/64 | 1 | 6-Oval-B4 | 12-Oval-B4 | Oval B4 |
| 1/16 | 2 | 6-Oval-C | 12-Oval-C | Oval C |
| 3/32 | 2.5 | 6-Oval-G | 12-Oval-G | Oval G |
| 1/8 | 3 | 6-Oval-M | 12-Oval-M | Oval M |
| 5/32 | 4 | 6-Oval-P | 12-Oval-P | Oval P |
| 3/16 | 5 | 6-Oval-X | 12-Oval-X | Oval X |
| 7/32 | 6 | 6-Oval-F2 | 12-Oval-F2 | Oval F2 |
| 1/4 | 7 | 6-Oval-F6 | 12-Oval-F6 | Oval F6 |
| 5/16 | 8 | 6-Oval-G9 | 12-Oval-G9 | Oval G9 |
| 3/8 | 10 | 6-Oval-H5 | 12-Oval-H5 | Oval H5 |
| 7/16 | 11 | – | 12-Oval-J8 | Oval J8 |
| 1/2 | 12 | – | 12-Oval-K8 | Oval K8 |
| 9/16 | 14 | – | – | Oval M1 |
| 5/8 | 16 | – | – | Oval N5 |

NOTE: Other die types available. Refer to Nicopress data sheet for specific die selection

# NICOPRESS Battery Powered Compression Tools & Accessories

## 5612M
## 12-ton Pistol Grip Battery Swaging Tool

- Optimized hydraulics offer 20% faster advance and 30% quicker retraction
- Selectable auto-retract switch
- Designed for use in single-handed operation
- 180-degree rotating head with forged jaws and protective brush guards
- Supplied with 2 Makita batteries and 120VAC charger for continuous operation
- Batteries have a state-of-charge indicator and tool has LED lighting


| | |
|---|---|
| **Weight** | 15.5 lbs (7kg) w/battery |
| **Dimensions** | 16"L x 11.5"H x 3.6"W |
| | (406mm L x 292mm H x 91.4mm W) |
| **Wire Rope Sizes** | 3/64" to 1/2" (1mm to 13mm) |
| **Battery** | 2 Makita 18V Lithium-Ion 5.0Ah (BL1850B) |
| **AC Battery Charger** | Makita 18V Lithium-Ion 120VAC (DC18RC) |
| **Wrist Strap** | Yes |
| **Carrying Bag** | Yes |
| **Approx. No. of Crimps** | 110 |
| **Die Selection** | See pg.14 for die selection table |

**Tool only also available**

# NICOPRESS Battery Charger and Battery Pack

- Rapid charging—reaches full charge in 45 minutes or less
- Protection against overloading, overdischarging and overheating
- Longer run times and consistent power, even in extreme conditions
- Integrated LED battery charge level indicator for easy monitoring
- Maintains charge even after long period of storage
- Impact-resistant outer case and shock-absorbing inner liner for protection

### Battery Charger DC18RC

Makita 18V LXT® Lithium-Ion Rapid Optimum Charger (120VAC)

Only 120VAC available (for use in N. America)


### Battery Pack BL1850B

Makita 18V LXT® Lithium-Ion 5.0Ah Battery

# NICOPRESS Pneumatic Compression Tools

Tools are recommended where continuous operation of hand tools reduces operator productivity. Available in either hand-held or bench models. Tools can be used at the field site or centralized production assembly work at a bench. These tools cover the widest range of wire sizes. Both single- and multi-groove power crimp heads can be interchanged easily, minimizing shop set-up time. Head for bench tool must be ordered separately.

## ATB-330 (Bench Tool)

| | |
|---|---|
| **Dimensions** | 15"L x 6"H x 4"W (38.1cm x 15.2cm x 10.2cm) |
| **Weight** | 15 lbs (6.8kg) |
| **Wire Size** | 1/32", 3/64" (1mm) to 3/8" (10mm)* |
| **Accommodates Interchangeable Tool HEADS (sold separately)** | |
| | Single-Groove: AT-B, AT-B4, AT-C, AT-G, AT-M, AT-P, AT-X, AT-F2, AT-F6*, AT-G9* |
| | Multi-Groove: AT-CGMP, AT-XPM, AT-MJ, AT-X-F6* |
| **Available HEAD Grooves** | |
| | B, B4, C, G, M, P, X, F2, F6, G9, J |

## AT-330 (Hand Tool)

| | |
|---|---|
| **Dimensions** | 15"L x 7.5"H x 4"W (38.1cm x 19.1cm x 10.2cm) |
| **Weight** | 13 lbs (6kg) |
| **Wire Size** | 1/32", 3/64" (1mm) to 3/8" (10mm)* |
| **Accommodates Interchangeable Tool HEADS (sold separately)** | |
| | Single-Groove: AT-B, AT-B4, AT-C, AT-G, AT-M, AT-P, AT-X, AT-F2, AT-F6*, AT-G9* |
| | Multi-Groove: AT-CGMP, AT-XPM, AT-MJ, AT-X-F6* |
| **Available HEAD Grooves** | |
| | B, B4, C, G, M, P, X, F2, F6, G9, J |

*AT-Booster Accessory required for AT-X-F6; AT-F6 and AT-G9 Heads.

# NICOPRESS Hydraulic Power Source for 635-A & 3512-H

Optional electric hydraulic and pneumatic hydraulic power source compatible with 12-ton 3512-H and 35-ton 635-A hydraulic swaging tools. Engineered for both shop and field use when higher volume throughput is required.

## NEH-1 Electric Pump

- 115 volt, 60 HZ-AC power
- Hydraulic output is 20 cu in per minute at 9,200 PSI
- Approx wt. 33 lbs

# NICOPRESS Hydraulic Compression Tools

## 3512

The hand operated 12-ton hydraulic compression tool features a two stage rapid advance pumping system.
It's engineered to swage the full range of Nicopress® product up through ½" (12mm).

### 3512

| | |
|---|---|
| **Dimensions** | 23"L x 6.5"H x 3.5"W |
| | (59cm x 16.5cm x 8.9cm) |
| **Weight** | 13 lbs (6kg) |
| **Wire Size** | 3/64" (1mm) to 1/2" (12mm) |
| **Compression Output** | 12-ton |
| **Die Selection** | See pg.14 for die selection table |

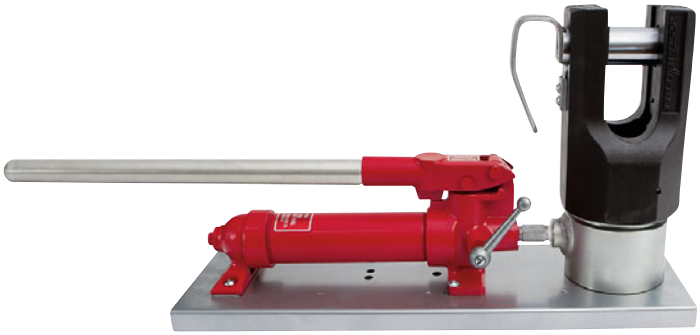
### 3512-H

| | |
|---|---|
| **Dimensions** | 9.5"L x 5.25"H x 2.75"W |
| | (24.1cm x 13.3cm x 7cm) |
| **Weight** | 8.5 lbs (3.9kg) |
| **Wire Size** | 3/64" (1mm) to 1/2" (12mm) |
| **Compression Output** | 12-ton |
| **Die Selection** | See pg.14 for die selection table |

## 635

The 35-ton swaging tool is designed for a range of markets and is the most versatile swager of its size.
It's supplied with a manual pump and can be ordered with an electric hydraulic power unit.

It's compatible with the full range of Nicopress® oval and stop sleeves and will swage sleeves up through 5/8" (16mm).
An excellent choice for both shop and field applications.



### 635

| | |
|---|---|
| **Dimensions** | 33"L x 13"H x 6.5"W |
| | (84cm x 16.5cm x 33cm) |
| **Weight** | 73 lbs (33kg) |
| **Wire Size** | 3/64" (1mm) to 5/8" (16mm) |
| **Compression Output** | 35-ton |
| **Die Selection** | See pg.14 for die selection table |

### 635-A

| | |
|---|---|
| **Dimensions** | 9"L x 13"H x 6.5"W |
| | (33cm x 16.5cm x 23cm) |
| **Weight** | 45 lbs (21kg) |
| **Wire Size** | 3/64" (1mm) to 5/8" (16mm) |
| **Compression Output** | 35-ton |
| **Die Selection** | See pg.14 for die selection table |

# NICOPRESS Cutting Tools

Nicopress® manual and hydraulic cable cutters produce round clean cuts without fraying wire rope ends. Cutting blades are made from ultra-tough forged and hardened alloy steel construction.

## 7506M
## 6-ton In-Line Battery Cutting Tool

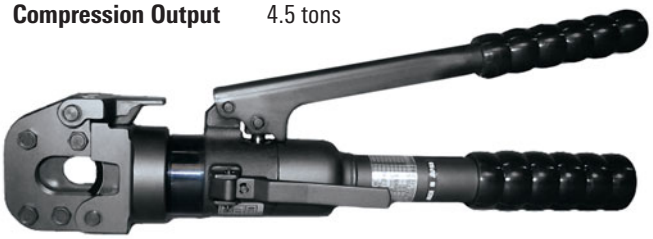
- Latched cutting head for superior shear strength on tough materials
- Head rotates 180 degrees for optimum maneuverability in tight workspaces
- Supplied with 2 Makita batteries and 120VAC charger for continuous operation
- Batteries have a state-of-charge indicator and tool has LED lighting

| | |
|---|---|
| **Weight** | 8 lbs (3.6kg) w/battery |
| **Dimensions** | 15.5"L x 4.8"H x 3.1"W |
| | (394mm L x 122mm H x 79mm W) |
| **Maximum Wire Rope Diameter** | 5/8" (16mm) |
| **Battery** | 2 Makita 18V Lithium-Ion 5.0Ah (BL1850B) |
| **AC Battery Charger** | Makita 18V Lithium-Ion 120VAC (DC18RC) |
| **Wrist Strap** | Yes |
| **Carrying Bag** | Yes |
| **Cutting Cycles** | 275 cuts - 1/2" (13mm) wire rope |
| **Die Selection** | See pg.14 for die selection table |

**Tool only also available**


## 4512
## Hydraulic Cutter

| | |
|---|---|
| **Length** | 15" (38cm) |
| **Weight** | 6 lbs (2.72kg) |
| **Wire Size** | up to 5/8" (16mm) |
| **Compression Output** | 4.5 tons |



## 1-VC1 Cable Cutter

| | |
|---|---|
| **Length** | 7.5" (19.1cm) |
| **Weight** | 0.8 lbs (0.36kg) |
| **Cutting Capacity** | up to 3/16" (up to 5mm) |

# NICOPRESS Material Selection & Rated Breaking Strength

## Proper material selection is important to ensure efficiency of wire rope connections

The ideal combination between any sleeve and wire rope are similar metals; however, some dissimilar metals combinations are perfectly acceptable to meet performance and/or material availability requirements. Understanding material combinations of wire rope and sleeves for a given environment is important to minimize corrosion. *Refer to Technical Bulletin TB-3.1 for details.*

**Nicopress Guide to Sleeve and Wire Rope Material Combinations in Various Environments**

| Sleeve Materials *(small area electrode)* | Wire Rope Materials (large area electrode) | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Mildly Corrosive Environment *(ex: indoors)* | | | | Moderately Corrosive Environment *(ex: outdoors)* | | | | Severely Corrosive Environment *(ex: chemical or ocean exposure)* | |
| | CS | Zn CS | SS | BO SS | CS | Zn CS | SS | BO SS | Zn CS | SS |
| Cu | B | B | B | B | C | B | B | B | C | C |
| Zn Cu | C | A | C | C | NR | A | C | C | B | NR |
| Sn Cu | B | B | B | C | C | B | B | C | C | C |
| BO Cu | B | B | B | B | C | B | B | C | C | C |
| Al | C | C | NR | NR | NR | C | NR | NR | NR | NR |
| SS | B | B | A | A | C | B | A | A | B | A |
| BO SS | B | B | A | A | C | B | A | A | B | A |

**Note:** All combinations of sleeves and wire rope in the above table represent "galvanic couples" where it is always preferable to have the "smaller area electrode," or the metal sleeve, to be cathodic (or the more noble metal) relative to the "larger surface area electrode," or wire rope, which is better when it is anodic (or a more active metal) in the couple. *Refer to Technical Bulletin TB-3 for more information.*

**Disclaimer:** The information provided herein serves as a general recommendation only. Many factors involved in service environments such as, but not limited to; temperature cycles and extremes, mechanical loading, electrical currents, radiation, chemicals, exposure methods (spray, immersion, or mists), exposure severity or frequency, and others may potentially vary or reverse an expected result.

### Compatibility Key

| | |
|---|---|
| A | Excellent |
| B | Good |
| C | Fair |
| NR | Not Recommended |

### Sleeve Materials Key

| | |
|---|---|
| Cu | Copper |
| Zn Cu | Zinc-plated Copper |
| Sn Cu | Tin-plated Copper |
| BO Cu | Black-Oxide coated Copper |
| Al | Aluminum |
| SS | Stainless Steel |
| BO SS | Black-Oxide coated Stainless Steel |

### Wire Rope Materials Key

| | |
|---|---|
| Zn CS | Zinc-plated Carbon Steel |
| SS | Stainless Steel |
| BO SS | Black-Oxide coated Stainless Steel |
| CS | Carbon Steel |

## Rated breaking strength

**Table of Government Specifications for Breaking Strengths (lbs force) of Wire Ropes Typically used for Nicopress Sleeve Terminations**

*Note: The following table was taken from: "Sleeve – Swaging Wire Rope" MS51844E, pg 4*

| Cable size nominal | Construction | Nominal breaking strength (lbs)* | | | |
|---|---|---|---|---|---|
| | | MIL-DTL-83420, type I | | RR-W-410, type I, class 2** | |
| | | Zinc or tin coated carbon steel comp A | Corrosion resistant steel comp B | Zinc coated steel | Corrosion resistant steel |
| 1/32 | 3 x 7 | 110 | 110 | | |
| 3/64 | 7 x 7 | 270 | 270 | | |
| 1/16 | 7 x 7 | 480 | 480 | | |
| 1/16 | 7 x 19 | 480 | 480 | | |
| 3/32 | 7 x 7 | 920 | 920 | | |
| 3/32 | 7 x 19 | 1000 | 920 | | |
| 1/8 | 7 x 19 | 2000 | 1760 | | |
| 5/32 | 7 x 19 | 2800 | 2400 | | |
| 3/16 | 7 x 19 | 4200 | 3700 | | |
| 7/32 | 7 x 19 | 5600 | 5000 | | |
| 1/4 | 7 x 19 | 7000 | 6400 | | |
| 5/16 | 7 x 19 | 9800 | 9000 | | |
| 3/8 | 7 x 19 | 14400 | 12000 | | |
| 7/16 | 6 x 19 IWRC | | | 18360 | 16300 |
| 1/2 | 6 x 19 IWRC | | | 24000 | 22800 |
| 9/16 | 6 x 19 IWRC | | | 30200 | 28500 |
| 5/8 | 6 x 19 IWRC | | | 37000 | 35000 |
| 3/4 | 6 x 19 IWRC | | | 53000 | 49600 |

*Nominal breaking strength. Eye splices, when properly assembled using the manufacturer's recommended tools and splicing instructions and when pulled with increasing tension, shall hold until wire rope breaks. It's preferred that tensile loads at failure be not less than 90 percent of the breaking strength specified in Table I.

**In all applications where RR-W-410 type I, class 2 wire rope is being used, proof tests should be conducted to determine if one or two sleeves are required.

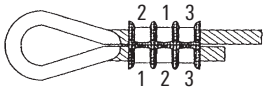
Amendment notations. The margins of this specification are marked with vertical lines to indicate modifications generated by this amendment. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations.

# NICOPRESS Installation Safety

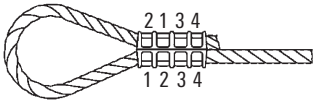
## Proper press sequences

If making three or more presses, it's important to press in the recommended sequences illustrated. The most important sequences to avoid are ones which press an area on the sleeve in-between two previous presses as illustrated. ***Reason:*** *once two outer presses are formed followed by pressing an interior position, the middle press will cause sleeve material to push (or flow) against the previously pressed outer positions possibly breaking wires and/or compromising the grip strength of the two outer presses.*

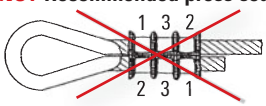
**Recommended press sequences for a 3-press sleeve**



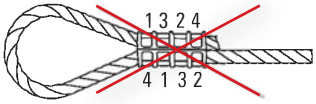

**Recommended press sequences for a 4-press sleeve**




**NOT Recommended press sequences for a 3-press sleeve**



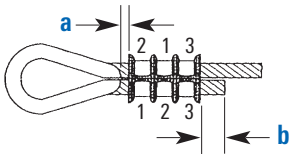

**NOT Recommended press sequences for a 4-press sleeve**




## Proper wire rope end protrusion "tail" and thimble clearance

When making an eye-splice, extend the rope cut-end a sufficient distance (b) out of the sleeve so when pressing has completed, some portion of the cut end (or "tail") remains outside the sleeve. ***Reason:*** *the material flows and lengthens the sleeve as it's pressed and may cause the wire rope end to retract inside the sleeve. If the wire has retracted, the gripping strength cannot be predicted since less rope is gripped by the sleeve, which may reduce the gripping strength between the wire rope and sleeve.*

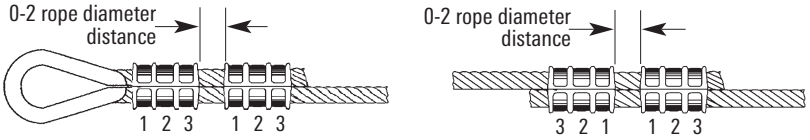
When using a thimble, position the sleeve from the thimble a distance of at least ½ of the wire rope diameter (a). ***Reason:*** *when swaging, material flow tends to lengthen the sleeve which may cause the sleeve to contact the thimble – possibly damaging the wire rope wires and/or compromising the grip strength of the sleeve.* Proper press sequences also are shown for the three-press sleeve illustrated below.




*Refer to Technical Bulletin-1 for proper press sequences, wire rope end protrusion, and thimble clearance for oval sleeve eye splices.*

## Proper construction of multiple sleeve eye and lap splices

When it's necessary to use multiple sleeves for special eye or lap splices, it's always better to keep the sleeves as close as possible to prevent one intermediate rope from becoming longer than the other. If the recommended procedure for multiple sleeve installations is used, the pressed sleeves will act additively and perform reliably and consistently. If it's desired to install the second sleeve in direct contact with the first, the second sleeve must be pressed in the sequence shown below so the sleeve material flows outward, away from the interface during swaging. Recommended sleeve spacing and press sequences are illustrated below for lap and eye splices:




*Refer to Technical Bulletin-4 for details regarding proper construction of eye and lap splices using multiple compression sleeves.*

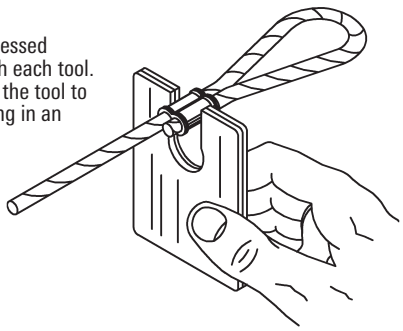
## Go gauge usage

Gauging swaged sleeves is an important inspection process to determine if a sleeve has been pressed enough to ensure a full-strength connection to wire rope. Nicopress go gauges are provided with each tool. It's always recommended, while adjusting a hand tool, to gradually increase the compression of the tool to a point where the Nicopress "go-gauge" easily slides (or "goes") over the pressed sleeve resulting in an optimum swage compression.

### It's a "go" gauge, not a "go-no-go" gauge

A Nicopress "go" gauge is a gauge designed to easily slide or "go" over a properly swaged section of sleeve to be sure a safe amount of compression has been reached. If the gauge tool doesn't slide easily over the swage, or doesn't go, the swage tool must be adjusted to press deeper to allow the gauge to freely pass or "go" over the swage. In theory, this would be an inspection tool to prevent under-pressing occurring during a swaging process.

*Refer to Technical Bulletin-2 for "Go-Gauge" or "Go-No-Go" Gauge details.*



# NICOPRESS Design Assistance

## Standard Fittings

We manufacture and stock a wide range of standard compression fittings and tools. From wire rope terminations to lap splices, Nicopress® can provide fittings per your specification. Contact us for assistance to select the right connection system – both tools and fittings – to meet your needs.

## Custom Fittings

We thrive on designing engineered connections and specialize in difficult and unique fitting configurations and attaching them to ferrous, non-ferrous and synthetic wires, strands and cables to achieve maximum tensile strength. Sleeve materials may include copper, aluminum, stainless steel, PTFE coated wire, titanium, nitinol, Inconel and high performance synthetics. Our R&D and engineering department have the right tools available, from 3-D modeling to non-linear FEA analysis, to ensure the connection solution is engineered in a timely and efficient manner. You specify the final fitting dimensions and tolerances of the cable assembly and we'll suggest either a standard item or quote a custom engineered solution.

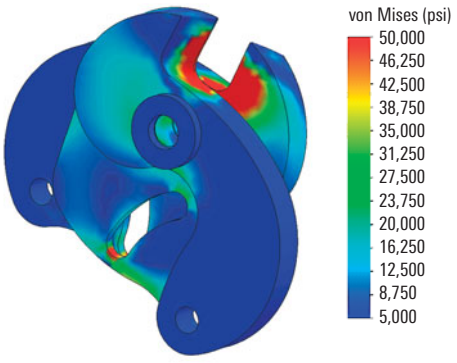
## Tool Selection

Nicopress® offers proven mechanical connectivity systems and solutions. Laboratory- and field-tested for dependability, our tools are manufactured specifically for use with Nicopress® connectors. We have a variety of tools for all your crimping and compression needs, including manual, battery powered, hydraulic and pneumatic. Nicopress® tools are recognized around the world by their "safety orange" colored handles.

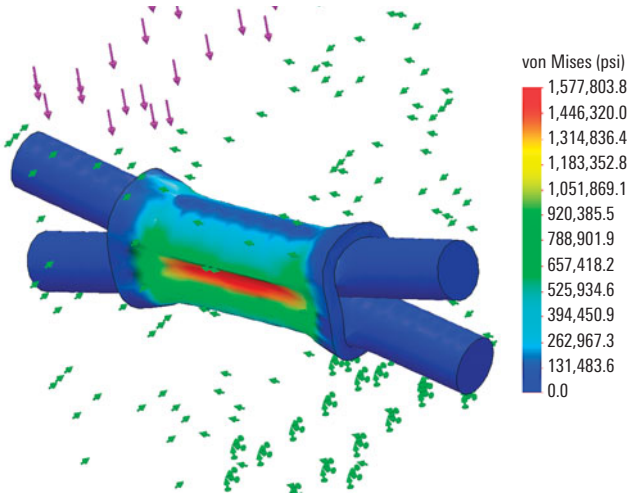
## Certified Testing

Nicopress® has the capabilities to test everything we build. All tensile testing and measurement equipment is certified and calibrated utilizing reference standards traceable to the U.S. National Institute of Standards and Technologies (NIST), in accordance with ISO 10012 and MIL-STD-45662A.

Cable assemblies can be 100% proof loaded to a percentage of ultimate break strength and sampled for destructive testing. Tensile testing capabilities available up to 60,000 lbs (266 kN). Conductivity/resistance testing also is available.



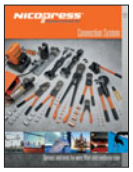

Stress Concentration Analysis




Plastic Deformation Analysis

Nicopress resources are available to download or request online at www.nicopress.com. Or, ask your distributor. Resources include catalogs, brochures, data sheets, instruction sheets, technical bulletins, white papers and technical drawings. Call Nicopress at (+1)216-361-0221 for design assistance.

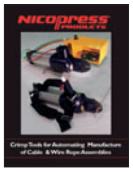
## CATALOGS



Sleeves and tools for wire, fiber and synthetic rope (Catalog No. 5)

Battery Powered Compression & Cutting Tools

Theatrical Rigging Connectors & Tools



Crimp Tools for Automating Manufacture of Cable Wire Rope Assemblies

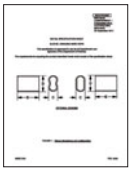
## BROCHURES

Efficiency of Wire Rope Connections

## DATA SHEETS

Wire Rope Products: Copper & Zinc-Plated Copper Oval Sleeves for Aircraft Control Cable & Wire Rope

Oval Sleeve Connector Series – Rotation Resistant Wire Rope



Sleeve, Swaging - Wire Rope MS51844E w/Amendment

## TECHNICAL BULLETINS

TB-1.0: Proper Press Sequences, Wire Rope End Protrusion, and Thimble Clearance for Oval Sleeve Eye Splices

TB-2.0: Go-Gauge or Go-No-Go Gauge

TB-3.2: Proper Material Selection for Wire Rope Sleeves

B-4.0: Proper Construction of Eye Splices & Lap Splices Using Multiple Compression Sleeves

TB-5.0: Wire Rope Termination Efficiencies

TB-6.0: Wire Rope Termination Inspection Specifications

## QR code on Nicopress® tools permits easy access to helpful instructions & info.

Available for these tools:
51 series, 63V-XPM, 64-CGMP.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