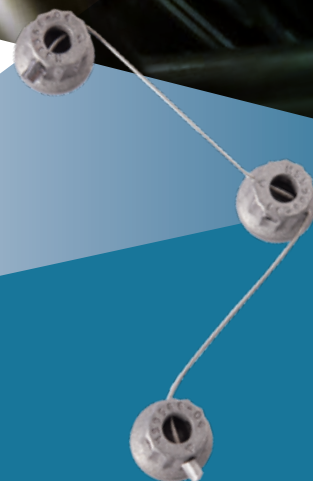




# SAFETY CABLE™

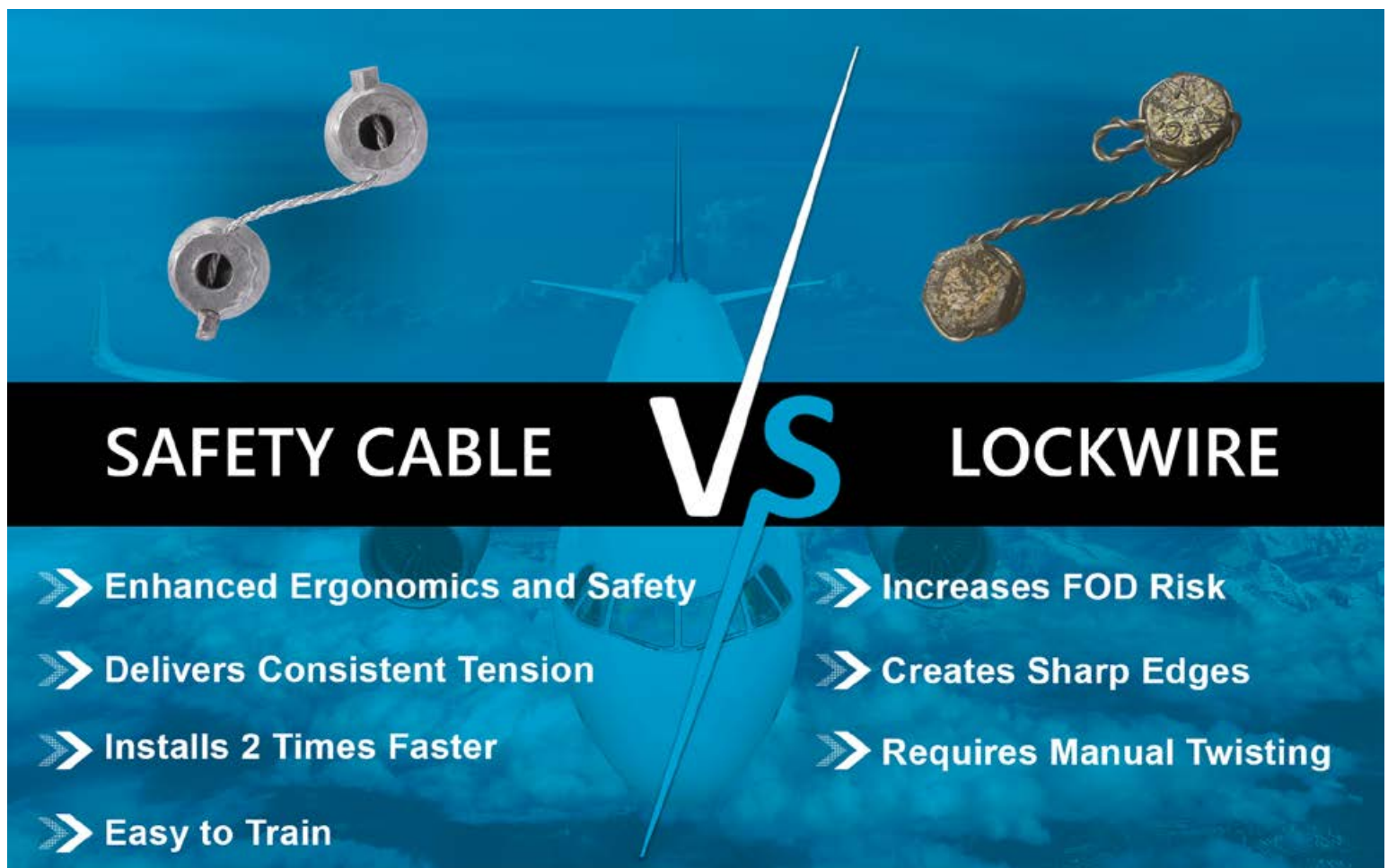
Fastener Retention Perfected



# YOUR CABLE CONNECTION

Bergen Cable Technology, Inc. has been a leading innovator in wire rope and cable assembly production, supporting aerospace, military, and other advanced technology sectors since 1942. As these industries evolved, one persistent challenge stood out: loose fasteners that compromised the safety and reliability of critical systems.

In 1987, Bergen introduced Safety Cable™ as an enhanced alternative to lockwire. Safety Cable revolutionized fastener retention by improving safety, efficiency, and reliability. The system's innovative design offers a user-friendly, 4-step installation process that prevents the loosening of bolts, nuts, and fasteners in environments subject to extreme heat and vibration.



SAFETY CABLE	VS	LOCKWIRE
<ul style="list-style-type: none"><li>➤ Enhanced Ergonomics and Safety</li><li>➤ Delivers Consistent Tension</li><li>➤ Installs 2 Times Faster</li><li>➤ Easy to Train</li></ul>		<ul style="list-style-type: none"><li>➤ Increases FOD Risk</li><li>➤ Creates Sharp Edges</li><li>➤ Requires Manual Twisting</li></ul>



## SCAN HERE

Learn more about the benefits of Safety Cable  
[qrco.de/bergencableblog](http://qrco.de/bergencableblog)

# SAFETY CABLE QUALIFICATIONS

Today, Safety Cable is the preferred solution across mission-critical industries. It has been adopted by most major aerospace OEMs and MRO facilities worldwide. Companies such as General Electric Aircraft Engines, Boeing, Pratt & Whitney, Rolls-Royce, and Woodward Governor rely on Safety Cable to enhance reliability while saving countless labor hours in fastener retention and maintenance.

## ➤➤➤ APPROVALS AND LISTINGS



Defined for use in aircraft by FAR 43.13(a). Classified as a standard part under FAR 21.303(b)(4). Major engine and airframe manufacturers publish and maintain FAA approved 70-XX-XX series standard documents.



Approved for procurement and installation under AS567, AS4536, AS3509, AS3510, AS3511 and AS3655.

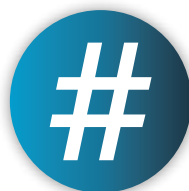


Approved for use in document number CR-4473.



### MILITARY

Meets all requirements of MIL-STD-763 and various service branch technical manuals. Meets all requirements of NASM33540. Meets performance and material specifications of NASM20995.



### NSN

National stock numbers have been assigned to specific Safety Cable tools and components to simplify the ordering process. Contact Bergen for details.



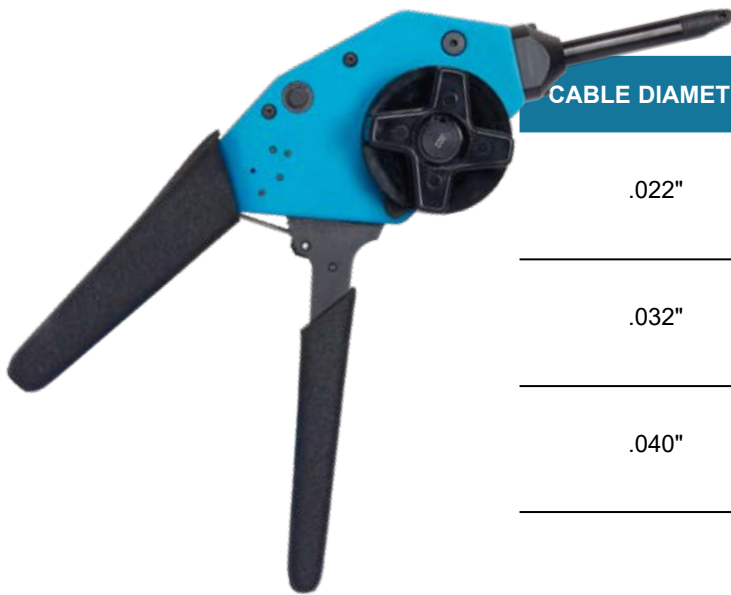
### OEM

Many companies operating in diverse industries have developed standards and drawings which include Safety Cable as the preferred means of fastener retention.



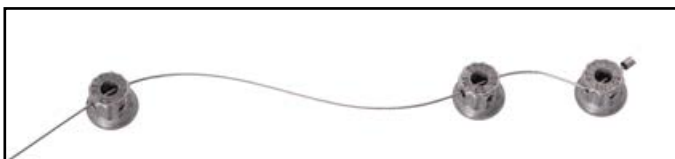
# SAFETY CABLE TOOL

Bergen's Safety Cable termination tool is ideal for reaching tight, restricted areas, while its robust construction and precise quality ensure reliability and repeatability. The 360° rotatable nose allows users to position the tool optimally for each installation while maintaining a comfortable, ergonomic grip. The tension can be modified by turning the adjustment screw in the tension wheel assembly to easily increase or decrease cable tension. Safety Cable termination tools are available in three cable diameter configurations including .022", .032", and .040" with nose lengths varying from 3"-7".

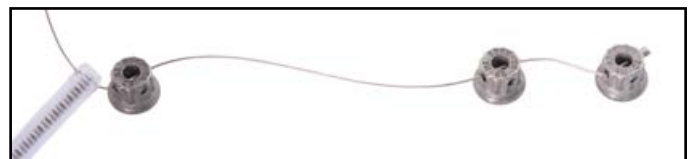


CABLE DIAMETER	NOSE LENGTH	TOOL PART NUMBER
.022"	3"	BM203
	5"	BM205
	7"	BM207
.032"	3"	BM323
	5"	BM325
	7"	BM327
.040"	3"	BM403
	5"	BM405
	7"	BM407

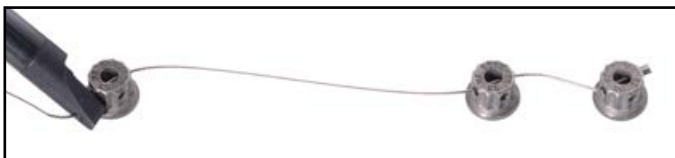
## HOW TO USE SAFETY CABLE



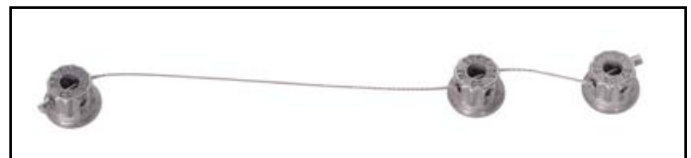
**1. Install Cable**



**2. Apply Ferrule**



**3. Tension Cable**



**4. Crimp and Cut**



**SCAN HERE**

Video tutorial on Safety Cable installation  
[qrco.de/safetycabletutorial](http://qrco.de/safetycabletutorial)

# ORDERING SAFETY CABLE


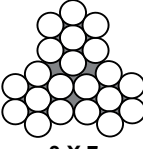
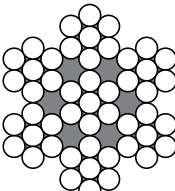


## Cable Kits

50 cable assemblies and 50 ferrules

## Cable Assemblies

50 cable assemblies

NOMINAL CABLE DIAMETER	CABLE CONSTRUCTION	CABLE LENGTH	*CABLE KITS PART NUMBER			*CABLE ASSEMBLIES PART NUMBER		
			(INCONEL 600) AMS5687 AS3509	(321 CRES) AMS5689 AS3510	(304 CRES) AMS5697 AS3511	(INCONEL 600) AMS5687 AS3509	(321 CRES) AMS5689 AS3510	(304 CRES) AMS5697 AS3511
.022"	 <b>1 X 7</b>	9"	K20A09	K20B09	K20C09	C20A09	C20B09	C20C09
		12"	K20A12	K20B12	K20C12	C20A12	C20B12	C20C12
		18"	K20A18	K20B18	K20C18	C20A18	C20B18	C20C18
		21"	K20A21	K20B21	K20C21	C20A21	C20B21	C20C21
		24"	K20A24	K20B24	K20C24	C20A24	C20B24	C20C24
.032"	 <b>3 X 7</b>	9"	K30A09	K30B09	K30C09	C30A09	C30B09	C30C09
		12"	K30A12	K30B12	K30C12	C30A12	C30B12	C30C12
		18"	K30A18	K30B18	K30C18	C30A18	C30B18	C30C18
		21"	K30A21	K30B21	K30C21	C30A21	C30B21	C30C21
		24"	K30A24	K30B24	K30C24	C30A24	C30B24	C30C24
.040"	 <b>7 X 7</b>	9"	K40A09	K40B09	K40C09	C40A09	C40B09	C40C09
		12"	K40A12	K40B12	K40C12	C40A12	C40B12	C40C12
		18"	K40A18	K40B18	K40C18	C40A18	C40B18	C40C18
		21"	K40A21	K40B21	K40C21	C40A21	C40B21	C40C21
		24"	K40A24	K40B24	K40C24	C40A24	C40B24	C40C24

\*Safety Cable is sold in quantities of 50

## CABLE ORDERING TIP

Choose a Safety Cable length that allows the cable to route through the pattern and then into the tool using the formula:

$$\text{Longest Pattern Length} + \text{Tool Nose Length} + 7 \text{ Inches} = \text{Cable Length}$$

# SAFETY CABLE ACCESSORIES

Bergen offers a complete line of accessories designed to maximize the performance and longevity of your Safety Cable system. This includes specialized cutters/grippers, and verification tooling. These accessories support reliable operation, proper maintenance, and compliance with industry standards. Tool settings can be checked using a torque verification block, and both the indenter and tensioning mechanisms should be verified periodically to ensure accuracy.

**TB-201:** *Torque Block*



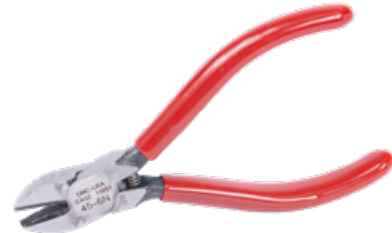
**TW-150:** *Torque Wrench*



**SCTD013:** *Push Tester\**



**45-6N:** *Cutter/Gripper\**



**MPT-250C-SC:** *Electric Load Tester\**



The MPT-250-SC electric load tester performs pull-to-fail and force-hold tests on .022", .032", and .040" Safety Cable. Test data is displayed on a full-color LCD touchscreen or can be exported to a PC via USB or RS-232.

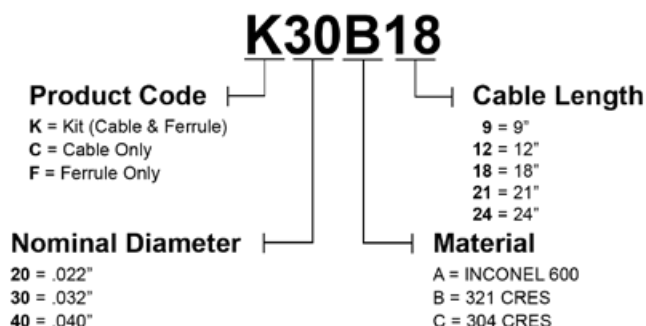
- Force Measurement Accuracy:  $\pm 0.5\%$  Full Scale
- Force Measurement Resolution: 0.1 (lbf, kgf, N)
- Complies with UL, ISO, SAE, MIL, and ASTM standards

\*Manufactured by Daniels Manufacturing Corporation®

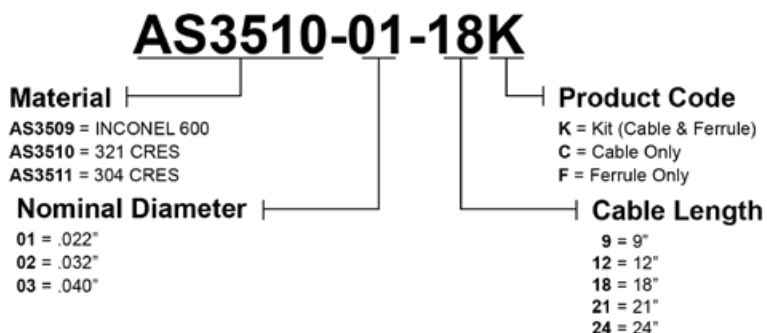
# SAFETY CABLE RESOURCES



## Bergen Part Number System



## SAE Part Number System



## Repair Services

Bergen Cable provides repair services for Bergen Cable tools only. Please contact our sales department for further information on repair services at [sales@bergencable.com](mailto:sales@bergencable.com).



## Challenges and Solutions

- Challenge: Transitioning from Lockwire to Safety Cable requires initial training.  
➡➡➡ Solution: We provide comprehensive training resources and user-friendly tools to simplify the transition.
- Challenge: Ensuring compatibility with existing aircraft systems.  
➡➡➡ Solution: Our team offers custom cable designs and detailed specifications to match aircraft requirements.
- Challenge: Meeting strict regulatory standards.  
➡➡➡ Solution: All Bergen products undergo rigorous testing to comply with AS4536, AS567, and other standards.

**LIMITED WARRANTY:** Bergen Cable Technology, Inc. warrants each new product sold by it to be free from defects in material and workmanship under normal use and service. BCT's obligation under this warranty is limited to the free correction or, at BCT's option, the refund of the purchase price of any such product which proves defective in normal service within ninety (90) days after delivery to the first user, provided that the product is returned to BCT with all transportation charges prepaid and which shall appear to BCT's satisfaction, after BCT's inspection, to have been defective in material or workmanship, it being understood that BCT products are not consumer products. This warranty shall not cover any damage to any product which, in the opinion of BCT, was caused by normal wear, misuse, improper operation, tampering, neglect, or accident. This warranty is in lieu of all other warranties express or implied. No warranty, express or implied, is made or authorized to be made or assumed with respect to products of BCT other than those herein set forth.



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