



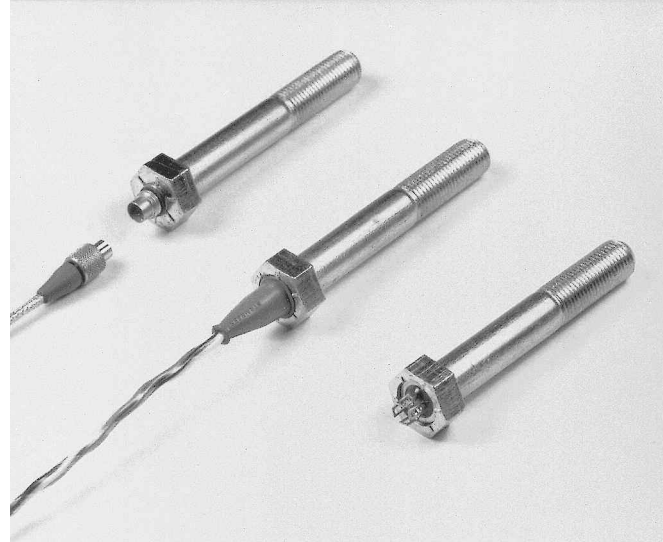
Standard Internally Gaged Hex Head Cap Screws, SXA Series

Aluminum Alloy

*To measure accurate
preload, service load
and overload of bolted
assemblies*

*For maximum uniformity,
efficiency and reliability
in bolted assemblies*

*For effective research,
testing and manufacturing
of bolted assemblies*



U.S. Patent No. 2,873,341

MECHANICAL SPECIFICATIONS

Material	Aluminum Alloy 2024-T4
Hardness	Rockwell B54 Minimum
Ultimate Tensile Strength	55,000 psi Minimum; 60,000 psi average
Threads	Class 2A, rolled
Thread Length	2-diameters + 1/4 inch full threads + 3/16 inch maximum imperfect threads.

ELECTRICAL SPECIFICATIONS

ITEM	CHARACTERISTIC
Gages Type	Metal Foil
Gage Factor	2.00
Service Temperature	150°F or 250°F
Non-Linearity	±1% of Allowable Load
Non-Repetition	±0.1% F.S.
Bridge Resistance	350 or 120 Ohms (Nominal)
Configuration	Full Bridge (FB)
Output Signal (nominal, at allowable load)	FB: 3.0 mv/V, approx.
Excitation	350-ohm FB: 12V (Maximum) 120-ohm FB: 3V (Maximum)

ALLOWABLE LOADS

Allowable loads for Strainert Hex Head Cap Screws, as tabulated below, are based on approximately 70% Yield Strength of the threads, in pounds.

SCREW SIZE	LOAD LBS.
1/4 - 20NC	900
5/16 - 18NC	1,500
3/8 - 16NC	2,200
1/2 - 13NC	4,000
5/8 - 11NC	6,500
3/4 - 10NC	10,000

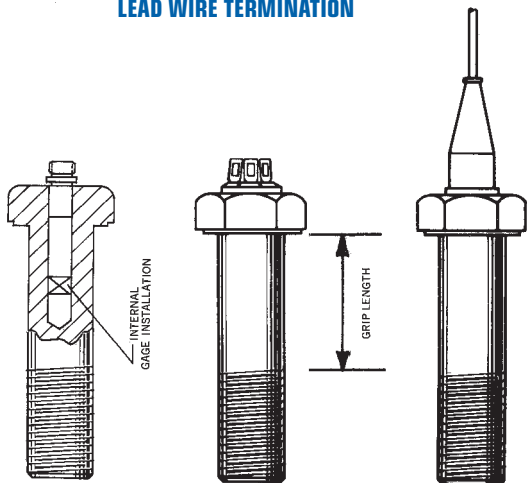
Each cap screw is calibrated to above indicated load as part of quality control procedure. See calibration section for additional calibration certification.



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LEAD WIRE TERMINATION



Type C with Connector

Type H with Multi-pin Header

Type W with Cable

- Type C – screw type miniature connector, requires mating cable assembly.
- Type H – a multi-pin header for soldered lead wire connections
- Type W – factory installed cable

U.S. Patent #2,873,341

ORDERING INFORMATION

SXA - FB 1/2-13NCx4 (350Ω / 250°F) C T2 K(LO) So

S = Signal Trimmed to Specific Endpoint
So = No Signal Trim

K(LO) = Load Only Calibration,
K(LU) = Load & Unload Calibration
Ko = No Calibration, Proof Load Only

To = No Temperature Compensation
T1 = Temperature Compensation to 150°F
T2 = Temperature Compensation to 250°F

C = Connector
W = Permanently Attached Cable
H = Header Style

150°F or 250°F Service Temperature (Max.)

350Ω or 120Ω

Bolt Thread Size (Diameter - Threads per Inch X Length)

FB = Full Bridge Strain Gage Circuit

SXA = Aluminum Alloy, Hex Head

* See Strainsert Calibration Services (Page 94)