Description of Product
UniLok is a family of nickel-titanium shape memory alloy rings used for permanent and semi-permanent fastening, sealing, and electrical interconnection. The rings shrink in diameter when heated, producing a uniform radial clamping pressure. Alloys H and C are used for permanent fastening, alloys B and D for demateable fastening, and alloys G and N for short term clamping and actuation.

Index of Related Documents
PD ACE Rectangular Section, Cryogenic
PD AGE Rectangular Section, 105°C Recovery Temperature
PD AHE Rectangular Section, Heat-To-Recover
PD ANE Rectangular Section, 125°C Recovery Temperature
PD ADE Rectangular Section, 35°C Recovery Temperature
PD BGE Circular Section Welded, 105°C Recovery Temperature
PD BHE Circular Section Welded, Heat-To-Recover, English Units
PD 003 Installation Procedure, Heat-To-Recover
PD 004 Installation Procedure, Cryogenic
PD 005 Material Properties
PD 008 Geometric Modifications
PD 009 Clamping Force Calculation

Part Numbering System
AHE0505-0071-0141I

Geometry
A - ring with rectangular cross section
B - ring fabricated by forming and welding round wire

Alloy
B - 55°C recovery temperature
D - 35°C recovery temperature
H - heat to recover

Units
E - English (inches)
M - Metric (mm)

Inside Diameter of Ring, Minimum, As Supplied
Format: Y.YYY" X 1000 or YY.YY mm X 100 (example, 0.505")
For Alloys G & N, this is as measured at the minimum recovery temperature.

Thickness of Ring, Nominal, As Supplied
Format: Y.YYY" X 1000 or YY.YY mm X 100 (example, 0.071")
Omit for welded wire rings.

Axial Length of Ring, Nominal, As Supplied
Format: Y.YYY" X 1000 or YY.YY mm X 100 (example, 0.141")

Modifications
B - Matte finish.
O - Grey / black oxide finish.
C - With geometric modification per PD 008.
E - Alloy H with recovery temperature >60°C
I - With electrical insulating layer applied to ring ID to aid direct resistance heating.
J - With electrical insulating layer applied to ring ID and end faces to aid direct resistance heating.
P - With temperature indicating paint corresponding to full clamping force temperature.

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CAGE Code 08CE6

Product Document
UniLok Index

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