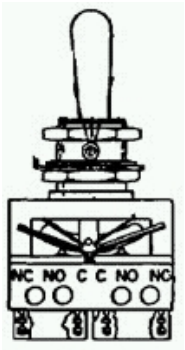




Home> Products > MICRO SWITCH™ Sealed and High Accuracy Switches > AT > Product Page

64AT22-7



AT Series Toggle Switch, 4 pole, 3 position, Quick Connect terminal, Standard Lever

Actual product appearance may vary.

Features

- Gold or silver contacts
- Choice of sealed bushing
- Standard or pull to unlock toggle lever
- Short behind-panel depth
- Solder or quick connect termination
- 2,4, 6, or 8 SPDT precision basic switches
- 2 or 3 position, momentary or maintained action

Potential Applications

- Industrial machinery and equipment
- Military and commercial aviation
- Construction equipment
- Test instruments
- Agricultural machinery
- Process control
- Medical instrumentation

Description

Compact multipole 2, 4, 6,or 8 SPDT design. MICRO SWITCH™ precision basic switches conserve space and weight. Pull -to-Unlock Toggle Levers prevent accidental operation: the lever must be pulled approximately 2,3 mm [0.09 inches] to change the positions. Many locking configurations are available. Lever to bushing seals. Hermetic basic switches are available. AT qualified versions meet MILS-8805/98. Various levers and styles are available.

Supporting Documentation

- Accessory: Lever Sleeve
- Panel Cutout
- Accessory: Seals
- Accessory: Nuts
- Engineering Drawing

Product Specifications																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Circuitry/Operating action	<table><tr><th>Keyway</th><th>Center</th><th>Opposite Keyway</th></tr><tr><th>Momentary</th><th>Maintained</th><th>Momentary</th></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr><tr><td>NC COM NO</td><td>NC COM NO</td><td>NC COM NO</td></tr><tr><td></td><td></td><td></td></tr></table>	Keyway	Center	Opposite Keyway	Momentary	Maintained	Momentary				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO				NC COM NO	NC COM NO	NC COM NO			
Keyway	Center	Opposite Keyway																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Momentary	Maintained	Momentary																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
NC COM NO	NC COM NO	NC COM NO																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								