

## Vertical Male Connectors, 8 Row, Types D, E and F

### Vertical Male Connectors

Types D, E and F mate with respective right angle receptacle connectors shown on page 19.

#### 8 row Versions

For use with unshielded female connectors. Type D has 176 signal pins with center guiding and keying facility, and type E has 200 signal pins and type F has 88 signal pins. They are stackable without change of contact pitch according to the chart on page 71.

#### 8+2 Row Versions

For use with females with ground return shields and have contacts in rows z and i in addition to those above.

#### Short Tail Versions

Standard versions have contact option A in rows a-h with option C in rows z and i on 8+2 row versions.

#### Feedthrough Versions

For midplane connection, 8 row versions mate with standard 8 row female connectors and 8+2 row versions mate with female connectors having ground return shields. Standard versions use contact options K and T instead of A and C.

For versions other than those shown, refer to page 47 which gives access to other sizes and loading patterns.

Guide pin Part No. 532808-1 may be used with type D male connectors to give early alignment.

#### Performance Data pages 6-7.

#### Materials and Finish

Glass filled polyester housing, gray, UL94 V-0 rated

Phosphor-bronze signal contacts

Contact area 0.8 $\mu$ m [.000030] Au over 1.3 $\mu$ m [.000050] Ni

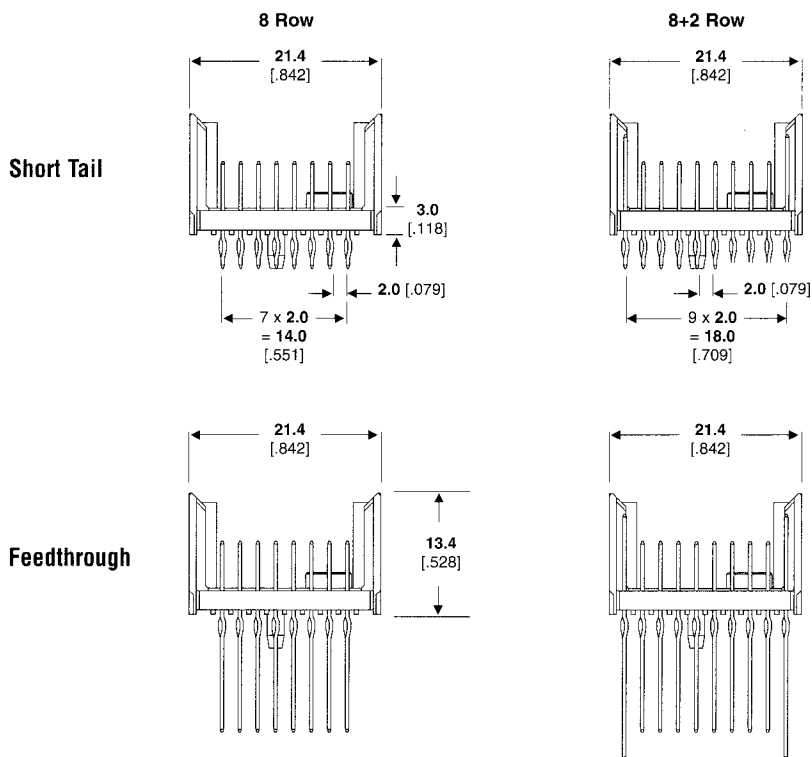
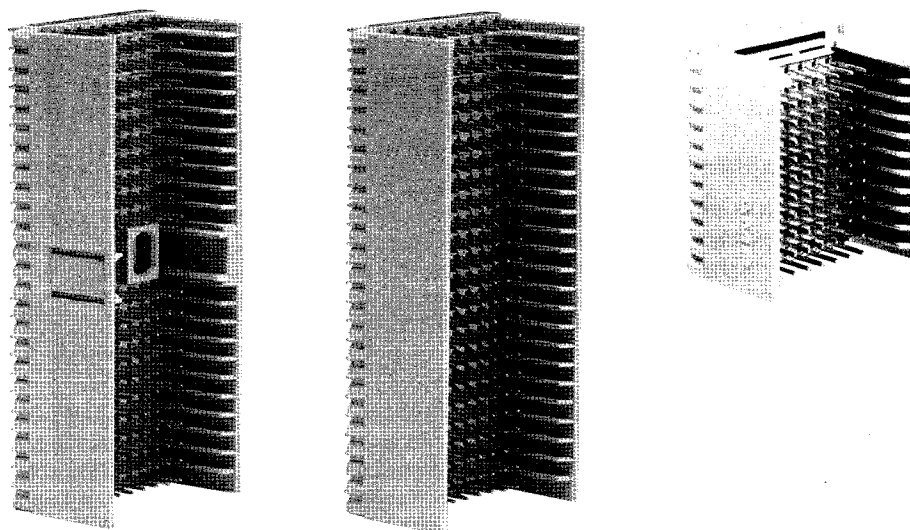
ACTION PIN Contact 0.5 $\mu$ m [.000020]

Sn/Pb over 1.3 $\mu$ m [.000050] Ni

#### Coding keys for type D page 47.

#### Board layout page 71 for guidance only.

#### Protection Covers available, see page 33.



Description	Part Numbers			
	Short Tail		Feedthrough	
	8 Row	8+2 Row	8 Row	8+2 Row
Type D	646346-1	646356-1	646372-1	646375-1
Type D (16 column, 128 position)	646362-1	—	—	—
Type E	646347-1	646357-1	646373-1	646376-1
Type F	646457-1	646513-1	646514-1	646515-1