Alumina Coated Pins

**Features:** Suitable for locating pins in spot welding since Alumina coating excels in abrasion resistance and insulation.

**Alumina Coated Pins**
- **Z-LANA**
- **Z-LATA**
- **Z-LAND**
- **Z-LATD**

**Gap Size:** Type D h8 Z-LANA

**Part Number**
- **Z-LANA**
- **Z-LATA**
- **Z-LATD**
- **Z-LAND**

**W Dimension:** D8: W=2 when P>5.0. D10, 10T: W=3 when P>7.0.

**Features**
- M(Coarse Thread)=D (Applies to Round Special Stainless Steel only.)
- **Alumina Coated Pins**
- **Surface Finish** Relief of 60°
- **Surface Treatment** Black Oxide (~35HRC ~40HRC) Anti-carburizing on 55HRC ~ (Depth 0.7 ~ 0.8)

**Materials**
- **Hardness**
  - Male Thread: Approx. HV200
  - Notch: Approx. HV1300

**Applications**
- **Surface Finish:** Relief of 60°
- **Surface Treatment:** Black Oxide (~35HRC ~40HRC) Anti-carburizing on 55HRC ~ (Depth 0.7 ~ 0.8)

**Volume Discount**
- **Rate**
  - 1~19: 5%, 20~29: 10%

**Ordering Code**
- **Part Number** - P - B - L - A - E - M - (TC / KD / CD)

**Dimensions**
- **D8:** 5~30
- **D10:** 15~100
- **D10T:** 15~100

**Alternate Lengths**
- **Applicable** to Round Special Stainless Steel (Round)
- **Applicable** to Round Special Stainless Set Screw (Round)

**Characteristics Comparison**
- **Material:** Special Stainless Steel, Alumina Coated, Stainless Steel, 420J2, X5CrNi18-10

**Alumina Coated Pin (Material: KCF)**

**Cross-Section Diagram**

Detecting Pins

**-Sensor Embedded Unit / Work Detecting Unit-**

**Features:** Fiber sensor is inserted into the pin, and the sensor’s light level is used to detect the work presence.

**Sensor Embedded Unit**
- **Notch**
- **Work Detecting Unit**

**Material:**
- **Type**
- **Shape**
- **Surface Finish**
- **Surface Treatment**

**Surface Finish Relief**
- **Type**
- **Shape**
- **Width**

**Surface Treatment**
- **Type**
- **Shape**
- **Width**

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**Alumina Coated Pin (Material: KCF)**

**Cross-Section Diagram**

Installing Upper with depth of 5~15mm (apprx. W/1.16) is termed. Alumina coating excels in abrasion resistance and insulative compared to metal. Contacts with pointed objects may cause conduction.

- **Contacts with pointed objects may cause conduction**

**Steps to Ship**
- **8 Days**

**Price**
- **Volume Discount**
  - **Rate**
    - 1~19: 5%, 20~29: 10%