

# ANTREX Electronics

Electronic Components Sourcing Information

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## Product Reference Information

**Part Number:** 0ADAP1600-RE  
**Manufacturer:** Bel Fuse Inc.  
**Package:** Bulk  
**Availability:** Please confirm with sales

### Product Page:

<https://antrexco.com/product/details/bel-fuse-inc/0adap1600-re.html>

### Request a Quote:

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## Contact Information

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## Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

### Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

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# Type 0ADAC / 0ADAP

## Fast-Acting Fuse Series

**HF** **Pb** 0ADAC/0ADAP Series, 6x32mm Ceramic Tube Fast-Acting Fuse RoHS Compliant

### Description

A 600VAC/VDC rated ceramic tube in a compact, 6.3 x 32mm package designed for circuit protection in high energy and high voltage applications.

### Features

- Fast-acting, high breaking capacity up to 600Vac/dc
- Available in cartridge and pigtail axial lead
- Designed to UL 248-1
- Full compliance with EU Directive 2011/65/EU and amending directive 2015/863
- Halogen Free
- Lead Free

### Applications

- Digital Measuring Instruments
- Industrial Power Supplies
- DC/DC modules
- Power Inverters
- UPS
- Smart Meters
- 3 phase

LEAD FREE = **Pb**  
HALOGEN FREE = **HF**



UK  
CA c **UL** us **CE**

### Physical Specifications

|           |                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Materials | Body : Ceramic                                                                                                                                                                                                                                                                                                                                                                                     |
|           | Cap: Silver Plated Caps                                                                                                                                                                                                                                                                                                                                                                            |
|           | Pigtail Leads: Tin Plated Copper                                                                                                                                                                                                                                                                                                                                                                   |
| Marking   | On Fuse :                                                                                                                                                                                                                                                                                                                                                                                          |
|           | "bel"                                                                                                                                                                                                                                                                                                                                                                                              |
|           | "0ADA""Current Rating", "Voltage Rating", "Appropriate Safety Logos"                                                                                                                                                                                                                                                                                                                               |
|           | On Label :                                                                                                                                                                                                                                                                                                                                                                                         |
|           | "bel", "0ADAC" or "0ADAP", "Current Rating", "Voltage Rating", "Interrupting Rating",<br>"Appropriate Safety Logos" and "  , "  "(China RoHS compliant). |

### Electrical Characteristics

| Testing Current | Opening Time |
|-----------------|--------------|
| 100%            | 4 hour Min.  |
| 250%            | 120 sec Max. |

### Safety Agency Approvals

| Safety Agency                | Safety Agency Certificate | Ampere Rating / Voltage Rating | Ampere Range / Volt @ I.R. ability*         |
|------------------------------|---------------------------|--------------------------------|---------------------------------------------|
| <b>c</b> <b>UL</b> <b>us</b> | E20624                    | 200mA – 12A 600V AC/DC         | 200mA – 12A / 600V@ 10KA AC / 600V@ 10KA DC |

\*I.R.= Interrupting Rating = Short Circuit Rating(Amps)

## Environmental Specifications

|                       |                                                                           |
|-----------------------|---------------------------------------------------------------------------|
| Operating Temperature | -50°C to +105°C                                                           |
| Terminal Strength     | MIL-STD-202G, Method 211 Test Condition A                                 |
| Lead Solderability    | MIL-STD-202, Method 208                                                   |
| Mechanical Vibration  | MIL-STD-202, Method 201                                                   |
| Thermal Shock         | MIL-STD-202, Method 107 Test Condition B (5 cycles -65°C to +125°C)       |
| Humidity              | MIL-STD-202, Method 103, Test Condition A ( 95%RH and 40°Cfor 240 hours ) |

## Electrical Specifications

| Part Number  | Ampere Rating | Typical Cold Resistance (mOhms) | Voltage and Interrupting Ratings                                               | Typical Voltage Drop ( mV) | Typical Pre –Arcing I <sup>2</sup> t (A <sup>2</sup> Sec) |
|--------------|---------------|---------------------------------|--------------------------------------------------------------------------------|----------------------------|-----------------------------------------------------------|
| 0ADAx0200-xx | 200mA         | 3900                            | See Table of Ratings on Page 1 for Voltage and associated Interrupting Ratings | 850                        | 0.003                                                     |
| 0ADAx0250-xx | 250mA         | 2755                            |                                                                                | 828                        | 0.009                                                     |
| 0ADAx0315-xx | 315mA         | 1900                            |                                                                                | 568                        | 0.030                                                     |
| 0ADAx0400-xx | 400mA         | 1875                            |                                                                                | 890                        | 0.038                                                     |
| 0ADAx0500-xx | 500mA         | 1160                            |                                                                                | 616                        | 0.041                                                     |
| 0ADAx0600-xx | 600mA         | 1035                            |                                                                                | 765                        | 0.072                                                     |
| 0ADAx1000-xx | 1A            | 450                             |                                                                                | 553                        | 0.23                                                      |
| 0ADAx1600-xx | 1.6A          | 160                             |                                                                                | 307                        | 0.89                                                      |
| 0ADAx2000-xx | 2A            | 155                             |                                                                                | 381                        | 1.28                                                      |
| 0ADAx2500-xx | 2.5A          | 89                              |                                                                                | 275                        | 3.91                                                      |
| 0ADAx3000-xx | 3A            | 64                              |                                                                                | 218                        | 7.74                                                      |
| 0ADAx3150-xx | 3.15A         | 60                              |                                                                                | 230                        | 9.92                                                      |
| 0ADAx4000-xx | 4A            | 44                              |                                                                                | 223                        | 15.50                                                     |
| 0ADAx5000-xx | 5A            | 33                              |                                                                                | 221                        | 26.50                                                     |
| 0ADAx6000-xx | 6A            | 26                              |                                                                                | 214                        | 41.76                                                     |
| 0ADAx8000-xx | 8A            | 18                              |                                                                                | 203                        | 76.80                                                     |
| 0ADAx9100-xx | 10A           | 16.8                            |                                                                                | 242                        | 101.40                                                    |
| 0ADAx9120-xx | 12A           | 12.8                            |                                                                                | 233                        | 187.20                                                    |

Consult manufacturer for other ratings

\*DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C

\*Typical Pre-arcing I<sup>2</sup>t are measured at 10In Current

## Temperature Re-Rating Curve



## Average Time Current Curve



## Soldering parameters for Pigtail Type

Wave Soldering Compatible: (260°C, 10 sec max)

Hand-Solder:

Solder Iron Temperature: (350°C +/- 5°C)

Heating Time: (5 sec max)

# Type 0ADAC /0ADAP

4 / 4

## Fuse FGNO Explanation

0ADA X [XXXX] -XX

0ADAC/P=0ADAC/P; [XXXX]=Ampere Rating; XX=See Ordering Information as below

| Fraction | Decimal | Milliamps | Bel FGNO[XXXX] |
|----------|---------|-----------|----------------|
| 1/5      | 0.200   | 200       | 0200           |
| 1/4      | .250    | 250       | 0250           |
|          | .315    | 315       | 0315           |
| 4/10     | .400    | 400       | 0400           |
| 1/2      | .500    | 500       | 0500           |
| 6/10     | .600    | 600       | 0600           |

| Fraction | Decimal | Amps | Bel FGNO[XXXX] |
|----------|---------|------|----------------|
|          | 1.0     | 1    | 1000           |
|          | 1.6     | 1.6  | 1600           |
|          | 2.0     | 2    | 2000           |
| 2-1/2    | 2.5     | 2.5  | 2500           |
|          | 3.0     | 3    | 3000           |
|          | 3.15    | 3.15 | 3150           |
|          | 4.0     | 4    | 4000           |
|          | 5.0     | 5    | 5000           |
|          | 6.0     | 6    | 6000           |
|          | 8.0     | 8    | 8000           |
|          |         | 10   | 9100           |
|          |         | 12   | 9120           |

## Mechanical Dimensions



## Ordering Information

**0ADA X XXXX - X X**

**FUSE TYPE** \_\_\_\_\_

**0ADA**

**MOUNTING TAB STYLE** \_\_\_\_\_

C = For Cartridge version  
P = For Axial lead pigtail

**AMPERE RATING** \_\_\_\_\_

Refer to fuse FGNO explanation table

**PACKAGING CODE** \_\_\_\_\_

A = Bulk (Pigtail length 52mm)  
B = Bulk (Cartridge version)  
R = Bulk (Pigtail length 38mm)  
T = Tape & Reel (Pigtail length 15mm with Inside Tape Spacing 62mm)

**QUANTITY CODE** \_\_\_\_\_

D = 500 / reel  
E = 1k / box  
G = 2k / box

## Packaging

| Packaging Option                            | Packaging Specification | Quantity | Packaging Code | Inside Tape Spacing |
|---------------------------------------------|-------------------------|----------|----------------|---------------------|
| Bulk (Cartridge version)                    | N/A                     | 1000     | BE             | N/A                 |
| Bulk(Pigtail Type, Pigtail standard length) | N/A                     | 1000     | RE             | N/A                 |
| Bulk(Pigtail Type, Pigtail length 52mm)     | N/A                     | 2000     | AG             | N/A                 |
| Tape & Reel (Pigtail Type)                  | EIA-296-F               | 500      | TD             | 10mm Pitch and 62mm |



Specifications subject to change without notice

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Rev. 0ADAC/0ADAP June2025