



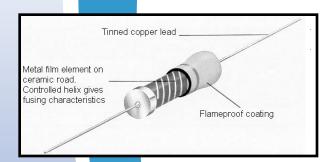








# **FUSIBLE METAL FILM RESISTOR**



# **PACKING DATA**

Ammo packed Bandoliered & reeled 1000 pcs 5000 pcs

#### CONSTRUCTION

These resistors are constructed by depositing a precisely controlled thin film of metal alloy on a high purity ceramic core. After fitting the end caps the resistors are helically cut using a laser to produce a reliable fusing characteristic and to adjust the resistor to the correct ohmic value. Wires are then welded to the end caps after which a flameproof coating is applied to protect the construction from environmental influences. The resistor is marked with IEC four colour code plus a white band.

#### **PERFORMANCE**

#### **ELECTRICAL**

from 70°C Maximum working voltage

Maximum working voltage Insulation resistance Insulation voltage

#### **ENVIRONMENTAL**

Temperature range Load life 1000 hrs Damp heat Climatic category - 55° to + 200°C 5% 5% 50/200/56

See table

 $>10^4~M\Omega$ 

500 V Min

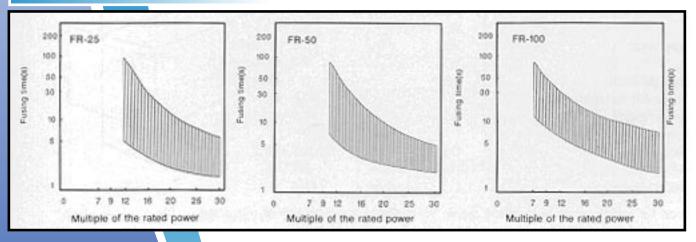
#### **MECHANICAL**

Leads Solderability

Marking

Solder plated copper < 2.5 secs (solder globule test) IEC four colour bands Plus White (fuse)

# **FUSING CHARACTERISTICS**



	FR 25	FR 50	FR 100
L mm	$6.3 \pm 0.5$	$9.0 \pm 0.5$	11.5 ± 1.0
D mm	$2.3 \pm 0.3$	$3.2 \pm 0.3$	$4.5 \pm 0.5$
d mm	$0.6 \pm 0.05$	$0.6 \pm 0.05$	$0.8 \pm 0.05$
A mm	52.5 ± 1.5	52.5 ± 1.5	73.0 ± 1.5
B mm	5	5	5
Power rating P <sub>70</sub>	0.25	0.5	1.0
Max. cont. working voltage	200	250	300
$V_{rms}$			
Max. overload voltage V	400	500	600

## **APPLICATIONS**

Suitable for use where overload protection is required in lower power circuits.

Short term overloads will be limited by the resistance value chosen, but permanent overloads will be safely isolated by the fusing characteristic of the resistors.

# series FR

Resistor + Fuse In One Flameproof Coating Safety Applications

### **DIMENSIONS**

