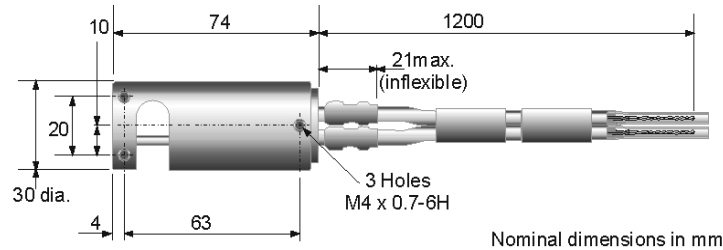


Leaffield

Engineering Limited



CABLE CUTTER C98-210

GENERAL DATA

Weight	260g
Material	Anodised aluminium body, stainless steel cutter blade
Cable details	Dual sheath (Raychem ZHTM), dual screen (Raybraid 90), twisted pair of conductors (Raychem spec 99, 26 AWG tinned copper)
Operating temperature	-40°C to + 70°C
Life	20 years (accelerated ageing trials completed)
Hazard classification	TBA
Net explosive content	200mg

OPERATION

On firing, the cutter blade actuates within the body at high velocity, the target is severed and the blade is arrested. There is no release of gas and no fragmentation of the cable cutter.

FEATURES

This device has two identical firing circuits, either of which will fire the device.

PERFORMANCE

Capacity	Able to cut a 12mm diameter electrical cable
Qualification trial summary	Humidity 95-100%RH; vibration – random 20g, 60-1000Hz and sine 22.5g, 60-200Hz; shock 1000g; acceleration 15g; electrostatic discharge – see below; acc. ageing – see above

ELECTRICAL CHARACTERISTICS PER CIRCUIT

Nominal circuit resistance	1.25 Ω
Screen resistance	<1 Ω
Insulation resistance	100M Ω at 50VDC, between both pins (shorted) to body
Maximum no fire current	1.0A for 5min
Recommended firing current	5.0A for 50ms
Maximum test current	0.010A
Electrostatic resistance	Withstands discharge from 500pF capacitor charged to 25kV with 500 Ω resistor in series, applied between both pins (shorted) and the body, non-contact.

Note: this device can be modified to comply with customer requirements

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PRODUCT SAFETY DATA SHEET

1. PRODUCT NOMENCLATURE

Ø12 CABLE CUTTER ASSEMBLY – C98-210

2. USE / FUNCTION

Used to cut an electrical cable bundle up to Ø12mm.

3. HAZARDOUS INGREDIENTS

<u>Material</u>	<u>Hazard</u>	<u>Nominal Mass Per Unit mg</u>
PROPELLANT	Deflagration	180mg max.

Note: Deflagration effects are totally contained within the body.

4. PHYSICAL PROPERTIES: CHEMICAL PROPERTIES, SENSITIVENESS CHARACTERISTICS

Physical Properties

Appearance Anodised Aluminium body to BS 1474 Grade 2014A-T6.
Hazardous material contained within body with
encapsulation material to fully seal.

Chemical Properties

Incompatible with acids and alkalis.

Sensitiveness Characteristics

Sensitive to flame: may burn to cause operation.

Conditions to avoid: open flame, electric spark, or charge exceeding the
specified no-fire current, prolonged exposure to
temperature above 125°C.

5. **HEALTH HAZARDS**

Precautions

- i) Forceful activation of the cutter blade may result if an attempt is made to tamper with or dismantle these devices before use.
- ii) Hazard may result if an attempt is made to dismantle these devices after use, due to the release of high pressure gas.
- iii) In an unpackaged condition inadvertent operation may result in forceful activation of the cutter blade inside the body, however, a safety shield is fitted to prevent hazard during handling.

6. **FIRE AND EXPLOSION**

This device will operate in the presence of excessive heat, typically above 125°C.

Hazardous decomposition: None. No outgassing produced.

7. **STORAGE PRECAUTIONS**

Store in original packaging in well ventilated, dry store.

Storage life in original packaging is more than 22 years under ideal temperature conditions (20°C).

8. **TRANSPORT, PACKAGING AND LABELLING**

This item is classified Non-Explosive as required for transport, packaging and labelling (HSE). Any onward shipment must be within this package.

9. **PROTECTION INFORMATION**

Eye protection during installation.

10. **DISPOSAL INSTRUCTIONS**

Used or life expired devices, may be returned to Leaffield Engineering Limited for disposal.

11. **EMERGENCY ACTION**

Fire represents the principal risk to safety due to the likelihood of operation. If possible and without risk to safety the devices should be removed from the immediate location of a fire.

If the packaging is burning, do not attempt to fight fire.

Call emergency services. Evacuate the immediate area.

12. **ADDITIONAL INFORMATION**

Refer to Leaffield Engineering Limited

Tel: +44 (0)1225 810771

Fax: +44 (0)1225 810614

email: lel@leaffield.co.uk