

Electric Igniters Firing Line



Photo courtesy of Jacques Couturier Organisation and Christophe Bouquin

The use of electric igniters in fireworks displays deployment allows a reliable and safe initiation of a large number of devices.

DAVEY BICKFORD electric igniters's series 2001 and 2004 are specially designed to respond to the stringent demand of this application.

Reliability

Davey Bickford ability and control of all the stages of manufacture, reinforced by a rigorous quality system (ISO 9001), makes it possible to guarantee an exceptional reliability for assured success of the largest World Class pyrotechnic spectacles.

Performance and Safety

A plastic shroud protects the fusehead during transport and preparation of the show. The fusehead low-intensity facilitates the implementation of large fireworks displays.

With a large choice of output power, wire lengths and colors references, Davey Bickford igniters bring the full flexibility you need for the creation of displays.

Definition

2001 series igniters are equipped with a small cylindrical shroud over the fusehead, giving a directional effect to the output.

2004 series igniters are equipped with a blue shroud for directional effect and fusehead protection. The casing has a specially designed feature allowing attachment of a safety fuse in order to reinforce the device ignition.

Both series have the same electrical characteristics, and are manufactured following the same stringent quality control. Whatever the series, you may choose between a standard fusehead of "B" type or a reinforced fusehead of "BSR" type. Please call us for information on custom colors and lengths.

2001 Igniter

2004 Igniter

Daveyline Firing Line

The most frequently used wire for firing lines (ref.L04) is composed of a duplex 0.51 mm copper core which is identical to the igniter wires ; this makes connection not only easier but also reliable - calculation of total circuit resistance is also facilitated.

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Igniters - Firing Line



IMPORTANT !

To insure proper initiation:
 - use only electric igniters
 having the same electrical
 characteristics on the same
 firing line,
 - provide sufficient current
 to fire the circuit.



Technical Characteristics

Fusehead resistance	1.6 ± 0.3 Ω
Average pyrotechnical composition content net weight	Standard fusehead type "B": 30mg each Reinforced fusehead type "BSR": 60mg each
Leg wires	Copper 0.51 mm (Resistance 0.17Ω /m)
Shelf life	2 years in good storage temperature conditions Dry < 50°C

Performance

No fire current I₀ - maximum current for non-ignition of the fusehead	0.20 A for 10 s.
All fire current I₁ - minimum current for ignition of fusehead	0.60 A for 3 ms
Recommended I value for N igniters	1 A per igniter
Recommended control current	<10 mA
Average ignition time	2ms with 1A / 1ms with 3A

Packaging - Igniters

UN shipping classification		1.4S		
UN number		0454		
Transport classification certificate		Inéris DCE-08-95066-02113A LEAP/GBE-AgA 57/74 dated February 8, 2008		
Length (m)	Quantity per box	Nr of inner boxes / case	Quantity per case	Gross weight per case
0.3	300	20	6000	21 kg
1.0	100	20	2000	19 kg
1.50	80	20	1600	21.5 kg
2.00	60	20	1200	21.5 kg
3.00	40	20	800	21 kg
4.00	30	20	600	20.5 kg
5.00	25	20	500	21 kg
6.00	20	20	400	20 kg
10.00	12	20	240	20 kg

Packaging - Firing line L04

Copper 2 x 0.51 mm (Resistance 0.17Ω /m)

Spool length (m)	Spools per case	Length per case	Gross weight per case	Cases per pallet
50 m	80	4000 m	25 kg	30
250 m	16	4000 m	26.5 kg	30
500 m	8	4000 m	26.5 kg	30

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Davey Bickford SNC

89550 Héry - France

Tel +33 (0) 3 86 47 30 00 Fax +33 (0) 3 86 47 30 79

in.rock@daveybickford.fr

www.daveybickford.com