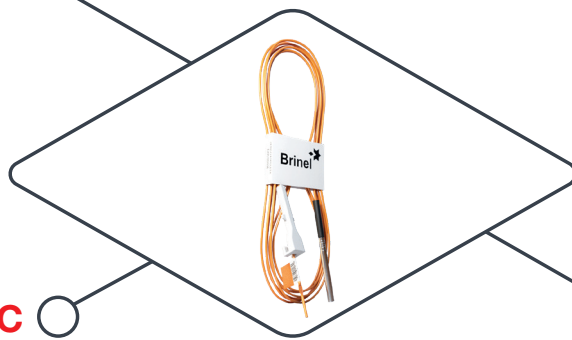




FT 051/01/02 R1
Mar. 2021

NON-ELECTRIC INITIATION SYSTEM



DESCRIPTION

Brinel is a line of non-electric initiation delay detonators used for initiating explosive charges. Its accurate delay and precise initiation produce excellent results in open-pit and underground mining, quarrying and construction operations.

Produced with Thermotube, which contains a different technology that does not use explosives. Unlike conventional shock tubes that produce a shock wave, Thermotube uses a high-temperature pyrotechnic generates a high temperature spark.

TECHNICAL CHARACTERISTICS

Internal diameter (mm)	1.25 – 1.50
External diameter (mm)	2.96 – 3.24
Tensile strength (kgF)	40
Elongation (%)	128
Propagation velocity (m/s)	1,140 – 1,275
Water resistance*	Resistant
Connector	J
Length** (m)	4.8 - 6 - 12 - 15 - 18 - 21 - 25 - 30
Operating temperature (°C)	-40 to +45

*For underwater application, contact our Customer Service.

**For other lengths, contact our Customer Service.

DELAY RANGE

Delay (ms)	0	25	50	75	100	125	150
Number	0	1	2	3	4	5	6
Delay (ms)	175	200	225	250	275	300	350
Number	7	8	9	10	11	12	14
Delay (ms)	400	450	500	600	700	850	1,000
Number	16	18	20	24	28	34	40
Delay (ms)	1,250	1,500	1,750	2,000	2,500	3,000	3,500
Number	50	60	70	80	100	120	140
Delay (ms)	4,000	4,500	5,000	6,000	6,800	7,500	8,300
Number	160	180	200	240	272	300	332

TRANSPORT INFORMATION

UN 0360
DETONATOR ASSEMBLIES,
NON-ELECTRIC FOR BLASTING
Hazard Class: 1.1B

UN 0361
DETONATOR ASSEMBLIES,
NON-ELECTRIC FOR BLASTING
Hazard Class: 1.4B***

***Contact us for availability.



APPLICATION AND RECOMMENDED USE

- Open-pit and underground mining, quarrying, construction and underwater blasting applications;
- Recommended initiation: Brinel Connection / Britacord NP05 / Detonator #8 / Brinel Initiator.

PACKAGING

Length (m)	4,8	6	12	15	18	21	25	30
Units per case (pieces)	100	100	100	100	100	100	80	60
Dimensions LxWxH (cm)	62 x 31 x 25		62 x 31 x 45					
Case material	Cardboard							

STORAGE AND SHELF LIFE

If kept in its original packaging and stored under appropriate conditions, this product is covered by a 36-month guarantee from the date of manufacture. Products must be used in accordance with applicable regulations.

MANUFACTURE

- Quatro Barras - PR, Brazil, Enaex Brasil.

**Would you like
to contact our
specialists?**

Address: Rod. Régis Bitencourt, km 1
Quatro Barras/PR
E-mail: contato.brasil@enaex.com
www.enaex.com

DISCLAIMER

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