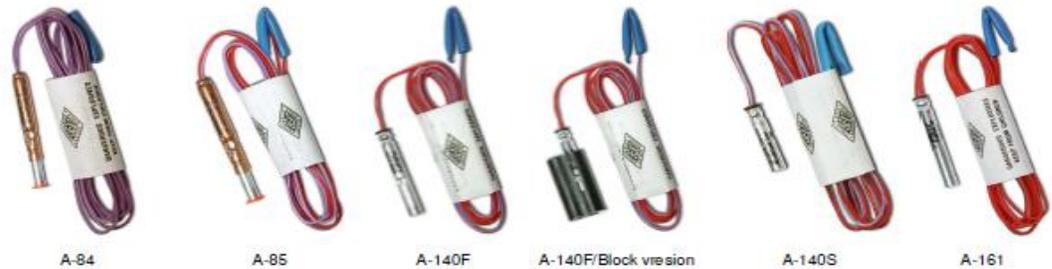


A-140S | A-140F | A-161 | A-84 | A-85

(ELECTRIC DETONADOR)
PRODUCT TECHNICAL DATA SHEET

Those detonators are used for applications where the detonator is protected from direct contact with the oil well environment, e.g. as is the case of hollow carrier perforators. Their design enables them to withstand high temperature environment. They provide the fluid disabled feature - in case the perforator leaks the fluid inside it prevents the detonator from proper function. In this way the detonators prevent from undesirable blocking the oil well by swollen perforator as might happen with wet shaped charges incorrectly exploding in a leaky perforator. For the A-140S detonator the fluid disabled function is designed only for water pressure of at least 0,7 MPa and 10 minutes exposure. The A-140F detonator is offered also in the A-140F/Block version - equipped with a plastic block to accommodate detonating cord. The A-140F, A-140S and A-161 detonators are transported with a protective tape which is to BE REMOVED JUST PRIOR USE



PROPERTIES

Type	A-84	A-85	A-140F	A-140S	A-161
Length (in)	2,7	2,7	1,9	1,3	2,1
Diameter (in)	0,34	0,34	0,29	0,28	0,29
Wires (4 ft/Cu 22 gauge)	Teflon	Teflon	Teflon	Teflon	Teflon
Base charge	7,3 grain RDX	7,3 grain RDX	4,3 grain RDX	4,3 grain RDX	6,4 grain HNS
Resistance (Ω)	1,1	58	59	59	59
No fire current (A)	0,25	0,2	0,2	0,2	0,2
All fire current (A)*	0,6	0,6 to 3,0	0,6 to 3,0	0,6 to 3,0	0,6 to 3,0
Electrostatic immunity**	20 kV/500 pF	25 kV/2,500 pF	25 kV/2,500 pF	25 kV/2,500 pF	25 kV/2,500 pF
Temperature (°F)***	- 40 to 350	- 40 to 350	- 40 to 350	- 40 to 350	- 40 to 475
Detonating cord adapter	80 grain	80 grain	No****	No	No****

* single detonator; ** double leg to shell; *** max. temperature for 1 hour; **** optional

Contact your local Austin Powder representative for further information.

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