

XTL-Plugs for Unshielded Applications

Spark Plug

- Thread size **A** Variable (Can be derived from P/N. See Table 2.)
- Thread reach **B** Variable (Can be derived from P/N. See Table 2.)
- Electrode design **C** Variable (Can be derived from P/N. See Table 2.)
- Electrode gap **H** Variable (Can be derived from P/N. See Table 7.)

Extended Barrel

- Resistance 5 k Ω
- Wrench opening 7/8"
- Extended barrel diameter Variable (Can be derived from P/N. See Table 2.)
- Extended barrel length **D** Variable (Can be derived from P/N. See Table 3.)

Spark Plug Lead

- Resistance Max. 15.1 Ω /km
- Test voltage (U_{ms}) 16 kV AC (spark test)
- Break-down voltage 30 kV AC / 100 kV DC
- Bending radius 7.5 x diameter (fixed installation) / 15 x diameter (free movement)
- Temperature range -50 °C to +180 °C (-58 °F to +356 °F)
- Diameter 7 mm (0.28")
- Jacket material Silicone
- Lead output from barrel **E** Variable (Can be derived from P/N. See Table 4.)
- Length **F** Variable (Can be derived from P/N. See Table 5.)
- Connector to ignition coil **G** Variable (Can be derived from P/N. See Table 6.)

Application

- Application Gas engines

Recommended Torque

Table 1

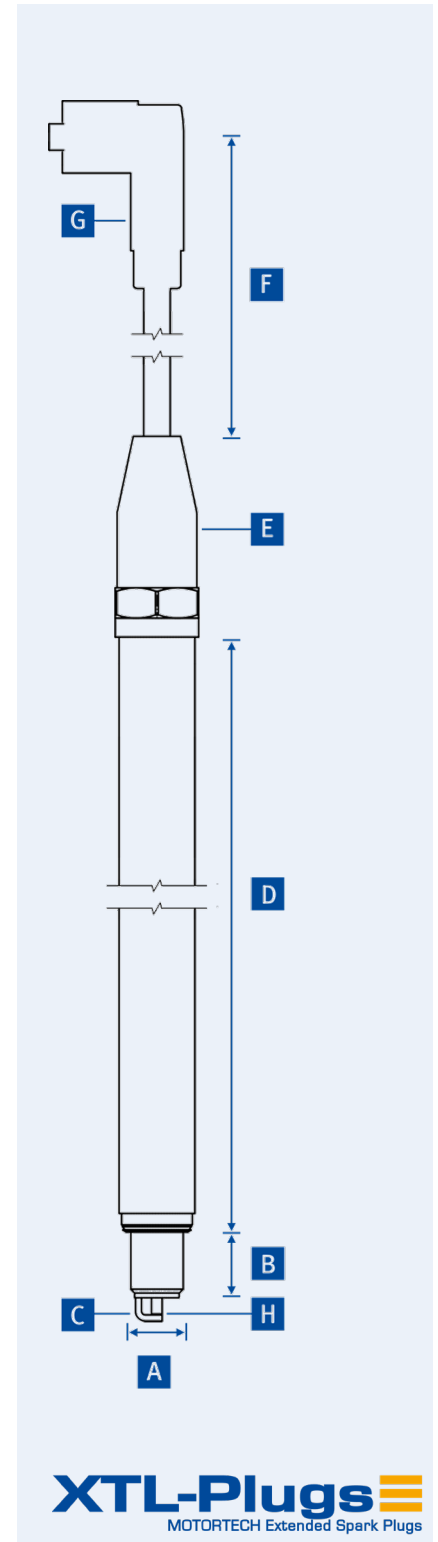
Thread size	Torque in cast iron cylinder head*
M14x1.25	30 Nm to 40 Nm (22 lb-ft to 29 lb-ft)
M18x1.5	50 Nm to 60 Nm (37 lb-ft to 44 lb-ft)
7/8-18 UNS	70 Nm to 80 Nm (52 lb-ft to 59 lb-ft)

* Please note the torque provided by each engine manufacturer.



Risk of destruction!

Reused spark plug gaskets may not be tight so that gas can escape and the spark plug connector can be damaged. Always replace the spark plug gasket if the spark plug is removed from the engine.



Technical Data That Can Be Derived From the P/N of an Unshielded XTL-Plug

P/N A B C D - E F G - H

Table 2

A	B	C	Thread size	Thread reach	Electrode design	Ext. barrel diameter
B4	1	2	M14x1.25	12.7 mm (0.500")	J-type (Ir/Ir)	20 mm (0.79")
B4	3	2	M14x1.25	19.0 mm (0.750")	J-type (Ir/Ir)	20 mm (0.79")
B8	1	2	M18x1.5	12.7 mm (0.500")	J-type (Ir/Ir)	25 mm (0.98")
B8	3	2	M18x1.5	19.0 mm (0.750")	J-type (Ir/Ir)	25 mm (0.98")
B8	4	2	M18x1.5	22.2 mm (0.875")	J-type (Ir/Ir)	25 mm (0.98")
B8	5	2	M18x1.5	25.4 mm (1.000")	J-type (Ir/Ir)	25 mm (0.98")
B7	2	2	7/8-18 UNS	15.0 mm (0.600")	J-type (Ir/Ir)	25 mm (0.98")
B7	3	2	7/8-18 UNS	19.0 mm (0.750")	J-type (Ir/Ir)	25 mm (0.98")
B7	4	2	7/8-18UNS	22.2 mm (0.875")	J-type (Ir/Ir)	25 mm (0.98")

Table 3

D	Extended barrel length – Other lengths available on request
BEX6	152 mm (6")
BEX8	203 mm (8")
BEX10	254 mm (10")
BEX12	305 mm (12")
BEX16	406 mm (16")

Table 4

E	Cable output from extended barrel
B	180°

Table 5

F	Cable length – Other lengths available on request
8	203 mm (8")
10	254 mm (10")
12	305 mm (12")
14	356 mm (14")
16	406 mm (16")
18	457 mm (18")

Technical Data That Can Be Derived From the P/N of an Unshielded XTL-Plug

P/N A B C D - E F G - H

Table 6

G	Ignition coil connector	
1	Non CSA	ALTRONIC® style – male, 180°
1A	Non CSA	ALTRONIC® style – female, 180°, with spreading adaptor
2	Non CSA	MOTORTECH style – M6, 90°
3	Non CSA	ALTRONIC® style – male, 180°
4	Non CSA	ALTRONIC® style – female, 90°
5A	CSA	ALTRONIC® style – externally mounted – 3/4-20 UNEF
5B	CSA	BENDIX® style – externally mounted – 3/4-20 UNEF
5C	CSA	MOTORTECH style – externally mounted – 1-20 UNEF
5E	CSA	ALTRONIC® style – CPU-XL – ignition coil P/N 591401-1
6	Non CSA	ALTRONIC® style – male, 90°
7	Non CSA	MOTORTECH style – M6, 180°
8	Non CSA	ALTRONIC® style – female, 90°
9	Non CSA	FAIRBANKS MORSE® style – male – no boot

Table 7

H	Electrode gap (optional)
010	0.25 mm (0.01")
012	0.30 mm (0.012")
014	0.35 mm (0.014")