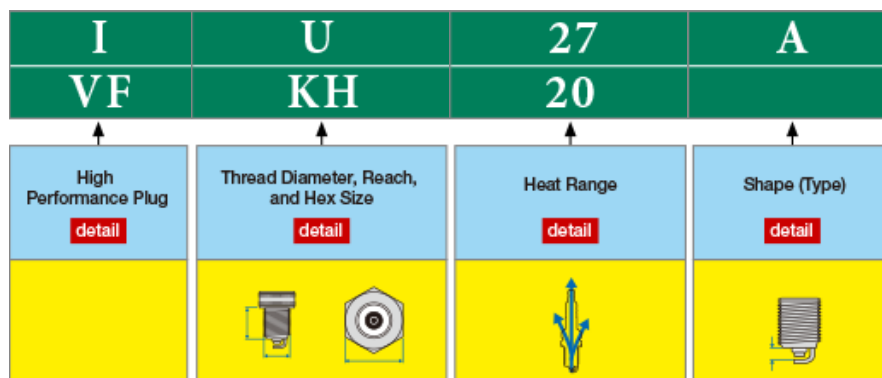


Identifying DENSO Plugs

IRIDIUM POWER Series (Power, Tough, Plus) & TT



High Performance Plug

I	.....	0.4 mm diameter iridium <POWER>
V	.....	0.4 mm diameter iridium with platinum tip <TOUGH>
VF	.....	0.4 mm diameter iridium with 0.7 mm needle type platinum tip <TOUGH>
VD	.....	0.7 mm diameter iridium with 0.7 mm needle type platinum tip <TOUGH>
P	.....	1.1 mm platinum center electrode
VS	.....	0.7 mm diameter iridium with platinum tip <TOUGH>

Thread Diameter, Reach, and Hex Size

K	.....	14×19.0×16.0
KB	.....	14×19.0×16.0 (New Triple Electrodes)
KA	.....	14×22.0 (Shroud 3.0)×16.0 (New Triple Electrodes)
KD	.....	14×20.5 (Shroud 1.5)×16.0
KH	.....	14×26.5×16.0
KBH	.....	14×26.5×16.0 (New Triple Electrodes)
Q	.....	14×19.0×16.0
W	.....	14×19.0×20.6
WF	.....	14×12.7×20.6
WM	.....	14×19.0×20.6 (Compact Insulator)
T	.....	14×17.5 (Taper Seat)×16.0
TF	.....	14×11.2 (Taper Seat)×16.0
TL	.....	14×25.0 (Taper Seat)×16.0 (Long Insulator)

TV	.....	14×25.0 (Taper Seat)×16.0
XU	.....	12×19.0×16.0
XUH	.....	12×26.5×16.0
CH	.....	12×26.5×14.0
XEH	.....	12×26.5×14.0
XEBH	.....	12×26.5×14.0 (New Triple Electrodes)
X	.....	12×19.0×18.0
XG	.....	12×21.8 (Shroud 2.8)×18.0
XEHC	.....	12×28 (Shroud 1.5)×14
U	.....	10×19.0×16.0
UF	.....	10×12.7×16.0
UH	.....	10×19.0 (Half Thread)×16.0
NH	.....	10×19.0 (Half Thread)×16.0
UEH	.....	10×26.5×14
Y	.....	8×19.0 (Half Thread)×13.0








Heat Range

DENSO	NGK	CHAMPION	BOSCH
16	5	12,11	8
20	6	10,9	7,6
22	7	8,7	5
24	8	6,63,61	4
27	9	4,59	3
29	9.5	57	
31	10	55	2
32	10.5	53	
34	11		
35	11.5		

Shape (Type)

A	Slant electrode, No U-Groove, No taper cut	I	Spark position: 4 mm Projected insulator (1.5 mm)
B	Projected insulator (1.5 mm)	J	Spark position: 5 mm
C	No U-Groove	K	Spark position: 4 mm Projected insulator (2.5mm)
D	No U-Groove	L	Spark position: 5 mm
E	Shroud: 2 mm	T	For LPG applications <PLUS>
ES	Stainless steel gasket	TT	TT series
F	Special specification	Y	0.8 mm gap
G	Stainless steel gasket, Terminal one type	Z	Taper cut

Iridium Plugs / Platinum Plugs / Normal Plugs

F	K	20	H	R		11
S	XU	22		PR	-A	9
	KJ	20		CR	-L	11
↑	↑	↑	↑	↑	↑	↑
Type of precious metal detail	Thread Diameter and Hex Size detail	Heat Range detail	Reach detail	Shape (Type) detail	Shape (Type) detail	Gap detail
						

Type of precious metal

D	0.7 mm diameter iridium with 0.7 mm needle type platinum
F	0.55 mm diameter iridium with 0.7 mm needle type platinum
P	1.1 mm diameter platinum with platinum tip
S	0.7 mm diameter iridium with platinum tip
SV, V	0.4 mm diameter iridium with platinum tip
Z	0.55 mm diameter iridium with platinum tip
E	0.7 mm diameter iridium with 1.0 mm needle type platinum

Thread Diameter and Hex Size

C	.....	12x14.0
L	.....	18x22.2 (Reach: 12.7 mm)
M	.....	18x25.4 (Reach: 12 mm)
MA	.....	18x20.6 (Taper seat, Reach: 12 mm)
MW	.....	18x20.6 (Reach: 12 mm)
J	.....	14x20.6 (Projected plug)
K	.....	14x16.0 (Miniature plug)
KJ	.....	14x16.0 (Projected Miniature plug)
LP	.....	14x20.6 (Plug for LPG applications)
Q	.....	14x16.0 (Miniature plug)
QJ	.....	14x16.0 (Projected Miniature plug)

QL	.....	14x20.6 (Miniature long cylinder housing plug)
S	.....	14x20.6 (Surface gap plug(for RE engines))
T	.....	14x16.0 (Taper seat)
W	.....	14x20.6
	.....	14x19.0 (Compact type)
X	.....	12x18.0
XE	.....	12x14.0
XU	.....	12x16.0
N	.....	10x16.0
U	.....	10x16.0
Y	.....	8x13.0
XB	.....	12x(Bi-hex)
UE	.....	10x14

Heat Range

DENSO	NGK	CHAMPION	BOSCH
4			
9	2	18	10
14	4	16,14	9
16	5	12,11	8
20	6	10,9	7,6
22	7	8,7	5
24	8	6,63,61	4
27	9	4,59	3
29	9.5	57	
31	10	55	2
32	10.5	53	
34	11		
35	11.5		

Reach

A	.....	19.0 mm (Spark position: 7.0 mm) J16AR-U11
A	.....	21.5mm S29A
B	.....	19.0 mm (Spark position: 9.5 mm) J16BR-U
C	.....	19.0 mm (Spark position: 5.0 mm) KJ20CR-L11
D	.....	20.5 mm (Shroud 2) K20DTR-S11
E (With gasket)	.....	19.0 mm W16EX-U
E (With gasket)	.....	20.0 mm W25EBR

H	.....	26.5mm K16HPR-U11
H	.....	19.0 mm (Spark position: 8.5 mm) QJ16HR-U
L	.....	11.2mm W14L
N (Taper seat, Half thread)	.....	17.5mm T20NR-U11
V (Taper seat)	.....	25mm PT16VR13
None	.....	9.5 mm W14M-U
		11.2 mm L14-U, M24S
		19mm SK20R11
		21.5 mm S29A

E	.....	Shroud 2.0mm FXE20HE11	None (Taper seat)	.....	8.3 mm T20M-U 11.2 mm W14L
F	.....	12.7mm W20FP-U			
FE	.....	19.0 mm (Half thread) U24FER9			
G	.....	22.0 mm (Shroud 3.0) PK20GR8			
G	.....	21.8 mm (Shroud 2.8) X27GPR-U			

Shape (Type)

A	.....	Double ground electrodes W22EA	M	.....	Shortened insulator head length W27EMR-C
AY	.....	Double ground electrodes with bent shape J16AY	M	.....	Compact type (Hex 19.0 mm) W20M-U
B	.....	Triple ground electrodes W22EB	P	.....	Projected (1.5 mm projection) W16EP-U
BG	.....	Triple ground electrodes (shroud) SK20BGR11	Q	.....	Projected 2mm, Spark position 3.5mm
C	.....	Shroud 1.5mm SXU22HCR11	R	.....	5Kohm resistor K16R-U
D	.....	4 ground electrodes W27EDR	S	.....	Non-projected (0 mm Projection) W22ES-U
D	.....	Projected (1.5 mm projection, spark position 3.5 mm) XU22HDR9	S	.....	Iridium on a single side KJ20SR11
K	.....	Projected (1 mm projection) W16EKR-S11	T	.....	Double ground electrodes K16TR11
LM	.....	Compact type (Hex 20.6 mm) W14LM-U	TM	.....	Double ground electrodes K22TMR11
			TN	.....	Double ground electrodes K22TNR-S
			X	.....	Fully projected (2.5 mm Projection) W16EX-U

Shape (Type)

-A	.....	Special specification SK16PR-A11	-P	.....	Double Platinum Ground Electrode SK20R-P11 Single-sided platinum plug K16PR-P11
-B	.....	Special specification K16PSR-B8	-Q	.....	Special specification FC16HR-Q8
-C	.....	Cut-back ground electrode W27EMR-C	-R	.....	10K ohm resistor K22PR-UR
-CY	.....	Special specification FC16HR-CY9	-S	.....	Semi-surface gap discharge type W20EP-S11
-D	.....	Copper-core Ground DK20PR-D13	-S	.....	Stainless gasket U27FER9S
-E	.....	Special specification SK16PR-E11	-T	.....	For LPG SK20HR8-T
-F	.....	Special specification J17SK16PR-F11	-T	.....	Special specification FK20HBR11-T
-G	.....	Grease applied on to threads, for CNG SK20R8-G	-TP	.....	Taper-cut, single-side platinum plug K20PR-TP11
-GL	.....	Platinum center electrode X22EPR-GL	-U	.....	U groove ground electrode K16PR-U
-L	.....	Heat resistant ground electrode K20PR-L11	-V	.....	1.3 mm diameter, nickel center electrode W27ES-V
-L	.....	3.5 mm projected insulator for motorcycles W20FP-UL			
-L	.....	Retracted insulator for motorcycles W20FR-L			
-M	.....	Larger ground electrode SK20PR-M11S			
-N	.....	For Yamaha and Kawasaki U27ESR-N			

Gap

5	.....	0.5mm (.020")
8	.....	0.8mm (.032")
9	.....	0.9mm (.035")
10	.....	1.0mm (.040")
11	.....	1.1mm (.044")
13	.....	1.3mm (.050")
14	.....	1.4mm (.055")
15	.....	1.5mm (.060")

<None> Cars: 0.8 mm M/C: 0.7 mm

<Exceptions> P16R, PQ16R, PQ20R are 1.1 mm

IRIDIUM RACING

⚠ Warning: On choosing the right racing plug

- Generally, electrodes that project into the combustion chamber have better ignitability and have better performance. However, because of more exposure to high temperature combustion gases and because ground electrode becomes longer, heat resistance and durability decrease. The higher the level of tuning, the greater the need is to use a less projecting type.
- As the level of tuning is increased, so does the need for higher heat range.

I	W	0	1	-	27
Variety	Thread Size	Intermediate Number (Overall Size)	Intermediate Number (Electrode Shape)		Heat Range
I : Iridium	U:10 mm XU:12 mm A:14 mm AE:14 mm K:14 mm KH:14 mm Q:14 mm RE:14 mm RL:14 mm RT:14 mm W:14 mm WM:14 mm		1 : Slant ground electrode or surface gap plug 2 : Flat ground electrode 6 : Slant ground electrode and non-resistor plug		24 27 29 31 32 34 35

(Exception) IRE01 has a flat ground electrode.

Relevant information



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