Ignition Leads, Plugs and Safety Caps

Perfection built in

BERU

Category	Temperature resistance at thermal ageing (3000h)	Temperature resistance at thermal overload (1h)
B	105°C	120°C
C	120°C	155°C
D	155°C	180°C
E	180°C	220°C
F	220°C	250°C

Resistor Reactance Ignition Leads

Item No.	∅(mm)	Lead type/R/m	Insulation	Braiding	Jacket	Cat.	Colour
0 300 800 035	7	Reactance/5.6	PVC	no	-	A/B	black
0 300 800 036	7	Reactance/5.6	TPE	yes	TPE	C	black
0 300 800 056	7	Reactance/5.6	EPDM	yes	TPE	C	black
0 300 800 044	7	Reactance/5.6	EPDM	yes	Silicone	D	black
0 300 800 032	7	Reactance/5.6	Silicone	yes	Silicone	F	black
0 300 800 057	7	Reactance/5.6	Silicone	yes	Silicone	F	blue
0 300 800 058	7	Reactance/9.8	Silicone	yes	Silicone	F	black
0 300 800 059	5.5	Reactance/5.6	PVC	no	-	A/B	black
0 300 800 060	5.5	Reactance/5.6	TPE	no	-	C	black
0 300 800 061	5.5	Reactance/5.6	EPDM	yes	Silicone	F	black
0 300 800 073	5.5	Reactance/5.6	Silicone	yes	Silicone	F	black
0 300 800 062	5.5	Reactance/9.8	Silicone	yes	Silicone	F	black
0 300 800 063	8	Reactance/5.6	EPDM	yes	TPE	C	black
0 300 800 064	8	Reactance/5.6	EPDM	yes	Silicone	D	black
0 300 800 043	8	Reactance/5.6	Silicone	yes	Silicone	F	black
0 300 800 065	8	Reactance/5.6	Silicone	yes	Silicone	F	blue
0 300 800 066	8	Reactance/9.8	Silicone	yes	Silicone	F	black

Copper Ignition Leads

Item No.	∅(mm)	Lead type/R/m	Insulation	Braiding	Jacket	Cat.	Colour
0 300 800 001	7	Copper	PVC	no	-	A/B	black
0 300 800 010	7	Copper	PVC	no	-	B	blue
0 300 800 039	7	Copper	VPE	no	CM	C	black
0 300 800 020	7	Copper	EPR	yes	CM	C	black
0 300 800 037	7	Copper	TPE	yes	TPE	C	black
0 300 800 049	7	Copper	EPDM	no	TPE	C	black
0 300 800 050	7	Copper	EPDM	yes	Silicone	D	black
0 300 800 041	7	Copper	VPE	no	Silicone	C	red
0 300 800 042	7	Copper	VPE	no	Silicone	C	black
0 300 800 021	7	Copper/25 m	Silicone	yes	Silicone	F	red
0 300 800 023	7	Copper/25 m	Silicone	yes	Silicone	F	black
0 300 800 026	7	Copper	Silicone	yes	Silicone	F	black
0 300 800 051	7	Copper	Silicone	yes	Silicone	F	red
0 300 800 038	5	Copper	PVC	no	-	A/B	black
0 300 800 052	5	Copper	TPE	no	-	C	black
0 300 800 053	5	Copper	EPDM	yes	Silicone	D	black
0 300 800 047	5	Copper	Silicone	yes	Silicone	F	blue
0 300 800 031	4.5	Copper	PTFE	no	Silicone	F	black
0 300 800 054	3.5	Copper	Silicone	no	-	F	red
0 300 800 055	2.5	Copper	PTFE	no	-	F	transp.

... can be combined with 9 types of plugs ...

For safe contacts, straight and angled, with or without integrated resistance type suppressor: the high-quality Beru plug assortment – fits SAE and 4 mm diameter, temperature resistant up to 250 °C.

Type	Order No.	Description	Connection	Wire - ∅ (mm)	Material	Ceramic - ∅ (mm)	Length (mm)
O4	0 300 201 002	90° angled, without interference suppression	4 mm, M4	7	PF	max. 14	33
O4F	0 300 201 005	90° angled, without interference suppression	4 mm, M4	5	PF	max. 14	33
O4S	0 300 204 103	90° angled, without interference suppression	4 mm, M4	5 + 7	VMQ	7 - 11	21
OE4/1 short		90° angled, 1 KOhm	4 mm, M4	5 + 7	EP	max. 14	26
OE4/5 short	0 300 231 004	90° angled, 5 KOhm	4 mm, M4	5 + 7	EP	max. 14	26
OE4/1	0 300 211 001	90° angled, 1 KOhm	4 mm, M4	5 + 7	EP	max. 14	37
OE4/5	0 300 231 001	90° angled, 5 KOhm	4 mm, M4	5 + 7	EP	max. 14	37
OE4/10	0 300 241 001	90° angled, 10 KOhm	4 mm, M4	5 + 7	EP	max. 14	37
C4-570	0 300 001 003	Straight, without interference suppression	4 mm, M4	5 + 7	PF	max. 14	50
CK4	0 300 005 001	Straight, without interference suppression	4 mm, M4	5 + 7	KER	max. 14	50
BE4/1P	0 300 012 001	Straight, 1 KOhm	4 mm, M4	5 + 7	EP	max. 12	62
BE4/5	0 300 031 001	Straight, 5 KOhm	4 mm, M4	5 + 7	PF	max. 12	62
C6	0 300 102 001	Straight, coupling	SAE (6.3mm)	7	EP		48
C6A	0 300 102 002	Straight, coupling	SAE (6.3mm)	7	EP		48
O6	0 300 301 001	90° angled, without interference suppression	SAE (6.3mm)	7	PF	max. 16	40
OE6/1 short	0 300 311 004	90° angled, 1 KOhm	SAE (6.3mm)	5 + 7	EP	max. 14	26
OE6/5 short	0 300 331 004	90° angled, 5 KOhm	SAE (6.3mm)	5 + 7	EP	max. 14	26
OE6/1	0 300 311 002	90° angled, 1 KOhm	SAE (6.3mm)	5 + 7	EP	max. 14	37
OE6/5		90° angled, 5 KOhm	SAE (6.3mm)	5 + 7	EP	max. 14	37
OE6/10	0 300 341 001	90° angled, 10 KOhm	SAE (6.3mm)	5 + 7	EP	max. 14	37
BE6/1	0 300 111 001	Straight, 1 KOhm	SAE (6.3mm)	5 + 7	PF	max. 12	62
BE6/5	0 300 131 001	Straight, 5 KOhm	SAE (6.3mm)	5 + 7	PF	max. 12	62
BE6/10	0 300 141 001	Straight, 10 KOhm	SAE (6.3mm)	5 + 7	PF	max. 12	62
HE1	0 300 611 001	Sleeve type suppressor 1 KOhm	Wooden screw	7	EP		55
R5/7	2 902 090 002	Reducing bush for 5 mm leads		5			

Abbreviations

CM	Chlorinated polyethylene
EP	Epoxy resin
EPDM	Ethylene/propylene
EPR	Ethylene/propylene
EVA	Ethylene/vinyl acetate
KER	Ceramic
PF	Phenol resin (Bakelite)
PTFE	Polytetrafluoroethylene
PVC	Polyvinylchloride
TPE	Thermoplast elastomer
VMQ	Silicone rubber
VPE	Bonded polyethylene

... and the corresponding safety caps!

Age resistant, waterproof, high voltage resistant: Beru safety caps with contact and flashover protection are made of primarily high-quality silicone, with temperature resistance up to 250°C.

Ignition side

Order No.	Description	Length (mm)	Cable∅ (mm)	Inner/ Outer-∅ (mm)	∅ High-voltage dome (mm)	Material	Figure No.
0 010 320 013	suitable for high-voltage domes	35	5–7	9	9.5–11.5	Silicone	1
0 010 120 003	suitable for high-voltage domes	38	7	13	13.5–15,5	Silicone	2
0 010 330 003	suitable for high-voltage domes	50	7	15	15.5–17.5	Silicone	3
0 010 100 001	suitable for high-voltage domes	48	7	13	13.5–15.5	PVC	4
2 303 690 084	suitable for high-voltage connection	90° angled	5	8	7.5–9	Silicone	5
0 010 110 002	suitable for high-voltage domes	22	5+7	10	11–13	Silicone	6

Electrode side

Order No.	Description	Length (mm)	Cable∅ (mm)	Inner/ Outer-∅ (mm)	Electrode ∅ (mm)	Material	Figure No.
0 010 310 005	to fit electrode	90° angled	7	10	10–13	Silicone	7
0 010 320 014	to fit electrode	45	7	7	7–10	Silicone	8
0 010 320 ...	to fit electrode	45	5	7	7–10	Silicone	9
0 010 320 002	to fit electrode	67	7	10	10–13	Silicone	10
2 303 590 068	to fit electrode	37	7	8	8.5–11.5	Silicone	11

Waterproof structural parts for plugs

Order No.	Description	Length (mm)	Cable ∅ (mm)	Inner ∅ (mm)	Plug ∅ (mm)	Material	Figure No.
0 010 100 003	G3P7, suitable for plug OE ...	25	5+7	13	14	PVC	12
0 010 020 006	GWS7, suitable for plug OE ...	14		18	20.5	Silicone	13
0 010 020 007	GWS9, suitable for plug BE ...	27		16	18.5	Silicone	14
0 010 020 013	suitable for plug OE ...	12		6	15.5	Silicone	15

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The Beru ignition lead system: two techniques . . .

Insulation attributes and temperature resistance – these are the main requirements for an ignition lead. For the oil and gas burner industry, we offer a wide range of ignition cables with various diameters and customized jackets (from teflon to silicone) using two techniques: traditional, high-quality copper ignition lead or high-tech reactance ignition lead (can partially eliminate external resistance). All ignition lead components are manufactured in our own factories (and not just assembled there as is standard practice with other companies).

Of course all of our ignition leads are tested in accordance with DIN ISO 3808 for dielectric strength and temperature resistance. Beru ignition wire sets – quality from the ignition specialist.

The Beru high quality reactance ignition leads are manufactured at Beru's plant in France. Pictured to the right is a resistor wire being wound onto the ignition lead.

Beru supplies ignition leads fully-assembled. Picture shows a stamping machine in process.

Reactance ignition lead

Increased functional reliability due to innovative suppression technology: on the Beru reactance ignition lead, the resistor is not located in the plug but instead in the high-grade special steel wire wound around the ferro-magnetic core.

IGNITION LEADS, PLUGS AND SAFETY CAPS

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