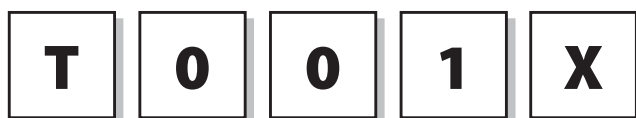


Ignition lead sets – marking, technical specifications

TESLA ignition lead sets are made of different types of cables. Their basic construction and parameters are described below. The sets comply with the ISO 3808, ISO 6856 and SAE J2031 international standards. All TESLA sets meet EMC requirements according to ECE R10.

TESLA catalogue numbers (e.g. T001B) are used to identify required ignition lead sets (application and construction used). The catalogue numbers are also used as ordering numbers / references.

Catalogue number of an ignition lead set



X= B, G, H, S – sets with resistive core

X= C – sets with copper core

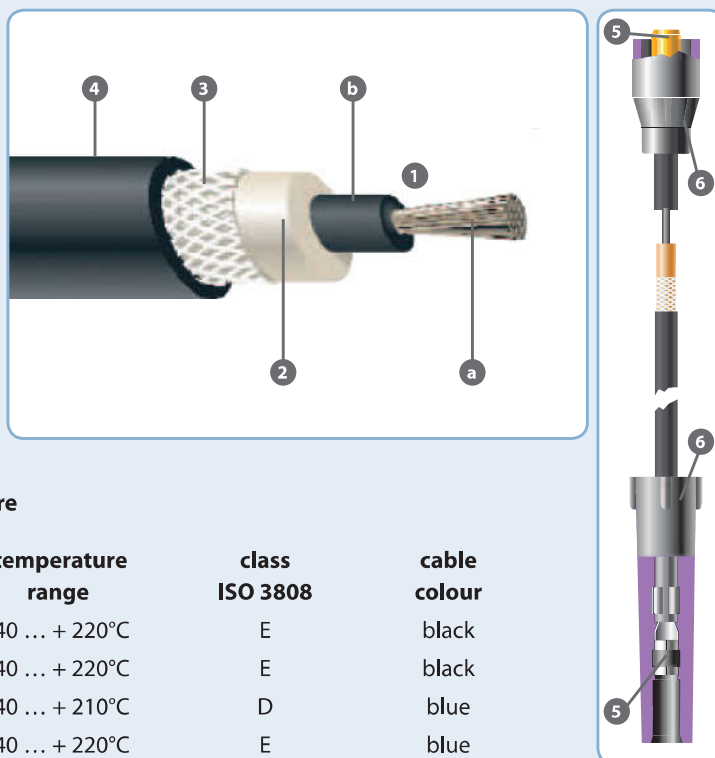
X= M, P – sets with inductive core

FORD						I
Mondeo III (B5Y) 2.0 16V	11.00 – 08.07	107	1999	CJBA/CJBB		T965G

Construction of sets - silicone resistive core

Ignition cables consist of a core, inner insulation and outer jacket. The conductive silicone core (1) is formed by glass fibre bundle cord (a) covered with a conductive silicone layer (b) of a defined thickness. The special cord ensures high tension strength and stability while the conductive silicone ensures maximum efficiency of both energy transmission and suppression. The inner insulation (2) provides superior heat resistance and dielectric strength while the tape braiding (3) adds strength and flexibility. The outer silicone jacket (4) protects the cable from the working environment under the bonnet.

Ignition leads are equipped with various types of terminals (5) on each end. The terminals are covered by silicone rubber boots (6) for insulation and protection against the working environment under the bonnet. Shapes of these components correspond to the OE requirements.



Technical specification - cable parameters - resistive core

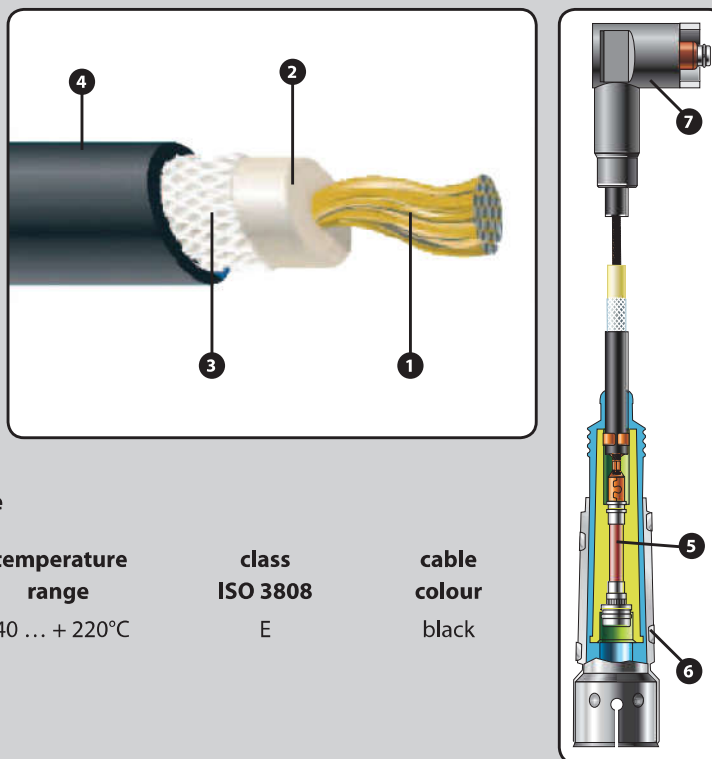
type of TESLA set	cable diameter	outer jacket	temperature range	class ISO 3808	cable colour
Txxx B	7 mm	silicone	-40 ... + 220°C	E	black
Txxx G	8 mm	silicone	-40 ... + 220°C	E	black
Txxx H	7 mm	silicone	-40 ... + 210°C	D	blue
Txxx S	7 mm	silicone	-40 ... + 220°C	E	blue

Ignition lead sets – marking, technical specifications

Construction of sets - copper core

Ignition cables consist of a core, inner insulation and outer jacket. The copper core (1) guarantees a loss-free transmission of energy over the cable and consists of stranded tin plated copper wires. The inner insulation (2) provides superior heat resistance and dielectric strength while the tape braiding (3) adds strength and flexibility. The outer silicone jacket (4) protects the cable from the working environment under the bonnet.

The suppression is carried out by a suppression resistor (5) implemented in the body of suppressed spark plug boot (6) and distributor boot (7) connectors. The spark plug boot connectors are often shielded by a metal plate for higher heat and mechanical protection. The typical value of the resistor element is 5 or 1 k Ω resistance value.



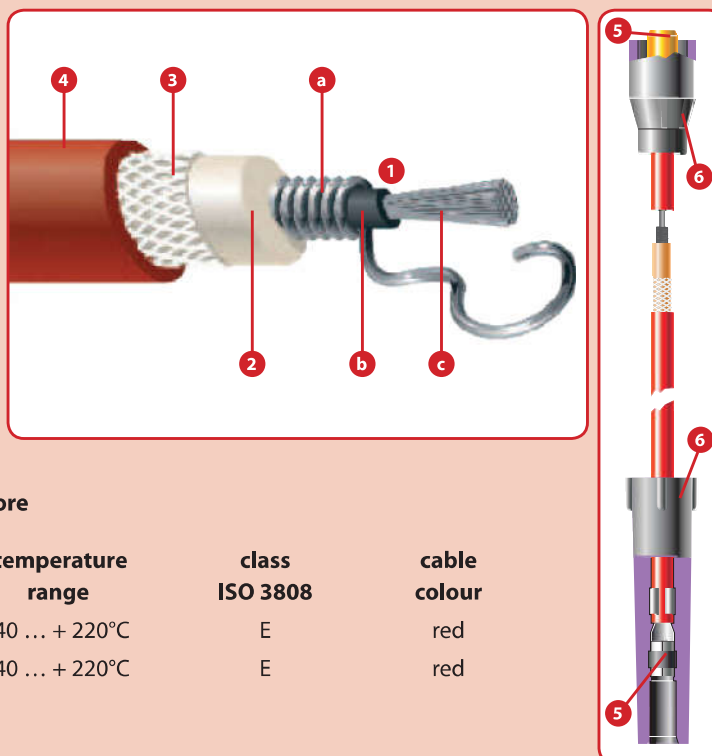
Technical specification - cable parameters - copper core

type of TESLA set	cable diameter	outer jacket	temperature range	class ISO 3808	cable colour
Txxx C	7 mm	silicone	-40 ... + 220°C	E	black

Construction of sets - inductive core

Ignition cables consist of a core, inner insulation and outer jacket. The inductive core (1) consists of a Kevlar® cord (c) covered with a semi-conductive material (b) and thin stainless steel wire (a) wound over the substrate. The Kevlar® cord ensures excellent tension strength and stability while the winding with the substrate ensures maximum efficiency of energy transmission with suppression. The inner insulation (2) provides superior heat resistance and dielectric strength while the tape braiding (3) adds strength and flexibility. The outer silicone jacket (4) protects the cable from the working environment under the bonnet.

Ignition leads are equipped with various types of terminals (5) on each end. The terminals are covered by silicone rubber boots (6) for insulation and protection against the working environment under the bonnet. Shapes of these components correspond to the OE requirements.



Technical specification - cable parameters - inductive core

type of TESLA set	cable diameter	outer jacket	temperature range	class ISO 3808	cable colour
Txxx M	7 mm	silicone	-40 ... + 220°C	E	red
Txxx P	5 mm	silicone	-40 ... + 220°C	E	red