



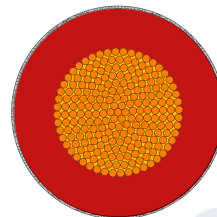
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

HEAT 180 FZLSi HIGH-VOLTAGE IGNITION WIRE

Flexible silicone wire for high-voltage ignition



APPLICATION

10 kV high-voltage ignition wire for high ambient temperature areas where conventional insulation materials may become brittle.

KEY FEATURES

Parameter	Value
Application	10 kV high-voltage ignition wire for high-temperature applications
Voltage rating	Nominal voltage: 10 kV; test voltage: 20 kV
Temperature range	-50 deg C to +180 deg C; short-term use up to +200 deg C
Protection	Halogen-free, cold-resistant and flame-retardant silicone cable

DESIGN

Parameter	Value
Conductor	Fine-wire, tinned-copper conductor, VDE 0295 / IEC 60228 Class 5
Insulation	Silicone-based insulation
Core colour	Red
Construction	Single-core cable for special high-voltage ignition service

ELECTRICAL, THERMAL, MECHANICAL AND MATERIAL DATA

Parameter	Value
Nominal voltage	10 kV
Test voltage	20 kV
Minimum bending radius, fixed	6 x core diameter
One bend at end of core	3 x cable diameter
Temperature range	-50 deg C to +180 deg C
Short-term temperature	+200 deg C
Halogen-free	IEC 60754-1
Fire performance	Flame-retardant according to IEC 60332-1-2
Conductor construction	VDE 0295 Class 5 / IEC 60228 Class 5
Chemical resistance	Resistant to many oils, alcohols, fats and chemicals
Weather resistance	Very good
Application	High-voltage ignition wire

TECHNICAL DATA

HEAT 180 FZLSi - DIMENSIONS AND RATINGS				
Cross-section mm ²	Conductor configuration	Outer diameter mm	Copper index kg/km	Cable weight kg/km
1.0	32 x 0.2	7.0	9.6	68
1.5	30 x 0.25	7.6	14.4	83

CONSTRUCTION, TESTS AND STANDARDS	
Parameter	Value
Conductor	Fine-wire, tinned-copper conductor, VDE 0295 / IEC 60228 Class 5
Insulation	Silicone-based insulation
Core colour	Red
Temperature range	-50 deg C to +180 deg C; short-term +200 deg C
Bending radius	Fixed: 6 x core diameter; one bend at end: 3 x cable diameter
Flame performance	Flame-retardant according to IEC 60332-1-2
Halogen-free	According to IEC 60754-1

CERTIFICATIONS



TEBAOFLEX CABLE