



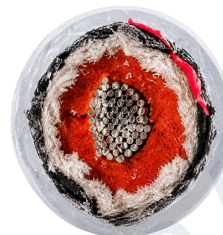
TEBAOFLEX CABLE

## DATA SHEET

Mining&Industrial cable

### FLARE STACK HIGH-TEMPERATURE IGNITER CABLE

Flexible high-voltage cable for flare stack ignition



#### APPLICATION

High-temperature flexible igniter cable suitable for flare stack applications. Designed for harsh environments with high voltage, heat, abrasion, moisture and chemical exposure.

#### KEY FEATURES

| Parameter       | Value                                                                |
|-----------------|----------------------------------------------------------------------|
| Application     | High-temperature flexible cable for flare stack igniter applications |
| Voltage rating  | 25 kV DC / 10 kV AC maximum                                          |
| Heat resistance | Maximum conductor temperature 250 deg C                              |
| Protection      | Designed to resist flexing, abrasion and harsh chemicals             |

#### DESIGN

| Parameter     | Value                                                             |
|---------------|-------------------------------------------------------------------|
| Conductor     | Finely stranded nickel-plated copper                              |
| Insulation    | High-voltage silicone rubber with mica tape wrap                  |
| Braid jacket  | Special fiberglass braid impregnated with high-temperature finish |
| Outer coating | Fluoropolymer coating for weather and chemical protection         |

#### ELECTRICAL, THERMAL, MECHANICAL AND MATERIAL DATA

| Parameter                     | Value                                                   |
|-------------------------------|---------------------------------------------------------|
| DC voltage rating             | 25 kV maximum                                           |
| AC voltage rating             | 10 kV maximum                                           |
| Maximum conductor temperature | 250 deg C                                               |
| Bending radius, static        | 10 x cable O.D.                                         |
| Bending radius, dynamic       | 12 x cable O.D.                                         |
| Flexibility                   | Finely stranded conductor for improved flex life        |
| Abrasion resistance           | Fiberglass braid and fluoropolymer outer coating        |
| Chemical resistance           | Silicone, mica, fiberglass and fluoropolymer protection |
| Conductor plating             | Nickel-plated copper for high heat resistance           |
| Application                   | Flare stack igniter wire                                |

# TECHNICAL DATA

| FLARE STACK IGNITER CABLE - AWG CONFIGURATIONS |                    |                          |                       |                        |
|------------------------------------------------|--------------------|--------------------------|-----------------------|------------------------|
| AWG / conductor                                | Nominal O.D.<br>in | Weight<br>lbs / 1,000 ft | Static bend<br>radius | Dynamic bend<br>radius |
| 18 AWG                                         | 0.239              | 34                       | 10 x O.D.             | 12 x O.D.              |
| 16 AWG                                         | 0.251              | 40                       | 10 x O.D.             | 12 x O.D.              |
| 14 AWG                                         | 0.276              | 50                       | 10 x O.D.             | 12 x O.D.              |
| 12 AWG                                         | 0.302              | 63                       | 10 x O.D.             | 12 x O.D.              |
| 10 AWG                                         | 0.339              | 83                       | 10 x O.D.             | 12 x O.D.              |

| CONSTRUCTION AND APPLICATION NOTES |                                                               |
|------------------------------------|---------------------------------------------------------------|
| Parameter                          | Value                                                         |
| Conductor                          | Finely stranded nickel-plated copper for high heat resistance |
| Insulation                         | High-voltage silicone rubber with mica tape wrap              |
| Protection                         | Fiberglass braid jacket with fluoropolymer outer coating      |
| Bending                            | 10 x O.D. static; 12 x O.D. dynamic                           |
| Electrical rating                  | 25 kV DC / 10 kV AC maximum                                   |

## CERTIFICATIONS



TEBAOFLEX CABLE