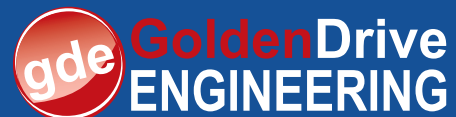


PROOF

MINING

SURFACE MINING SOLUTIONS

MEMBERS OF THE GDE GROUP



366 200A 6.6kV PLUGS and SOCKETS

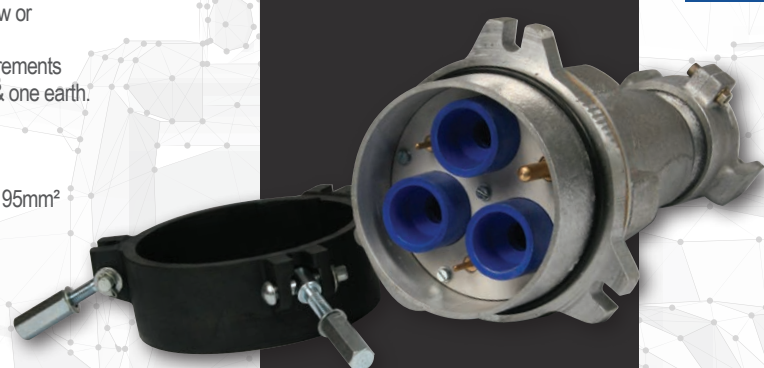


PLUGS & SOCKETS

- Contacts are sweated, no grub screw or crimp type connectors
- Contacts drilled to suite cable requirements
- Contact pins: 3-Phase connection & one earth. Up to 3 pilots (optional)
- Insulator: Silicone or Teflon
- IP67 rated & corrosion resistant
- Maximum cable diameter 76mm or 95mm²
- Maximum conductor size: 14mm
- Plug & socket rated at 6.6kV 200A
- Quick-Release mechanism (quick-thread available on request)
- Optional epoxy powder coating

Electrical Characteristics

- Dry lighting impulse 27kV (Test report: HV/100289B)
- Phase-to-phase 15kV
- Phase-to-earth 8.6kV



Features and Benefits

- Flexible silicone insulators that can be individually replaced (Teflon Hard type insulators on request)
- Lightweight aluminium design
- Maximum cable OD: 95sqmm
- Grommets cut to suite cable OD
- Quick-release mechanism (easy coupling)
- Stainless steel pilots: Prevent bending during coupling 6000 Volt 200A rated
- New split insulator for ease of assembly
- Guide pin to assist with fitment



Applications

- Primarily used in opencast applications
- Power supply to rock drills & shovels
- Used with flexible mining cable (similar to Texoprene TRM cable)

415 / 515 500A 15kV MALE PLUGS

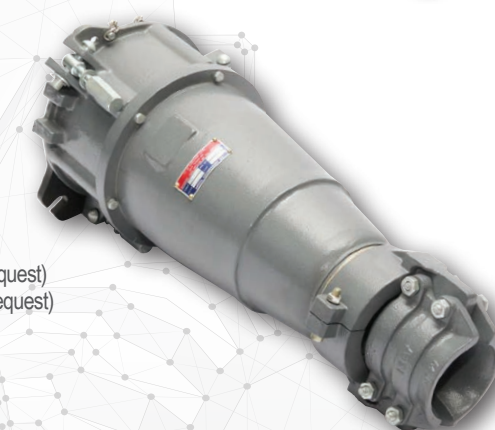


MALE PLUGS

- Conductors: Crimped
- Contacts drilled to suite cable requirements
- Contact pins: 3-Phase connection & one earth
- Up to 4 pilots (optional)
- Insulators: Silicone or Teflon
- IP54 rated & corrosion resistant
- Maximum cable diameter (415 unit): 90mm
- Maximum cable diameter (515 unit): 100mm
- Maximum 240sq mm
- Maximum conductor size: 22mm
- Plug & socket rated at 15kV 500A
- Double key system for increased safety (available on request)
- Quick-Release mechanism (quick-thread available on request)
- Optional epoxy powder coating

Electrical Characteristics

- Dry lighting impulse 55kV (Test report: HV/100289A)
- Phase-to-phase 32kV
- Phase-to-earth 17kV



Features and Benefits

- Flexible silicone insulators that can be individually replaced
- Lightweight aluminium design
- Rear grommets cut to suite cable OD
- Stainless steel pilots: Prevent bending during coupling
- 15000 Volt 500A rated
- Guide pin for ease of fitment



Applications

- Primarily used in opencast applications
- Power supply to rock drills & shovels
- Used with flexible mining cable (similar to Texoprene TRM cable)



415 / 515 500A 15kV FEMALE PLUGS

RESTRAINED PLUG

- Conductors: Crimped
- Contacts drilled to suite cable requirements
- Contact pins: 3-Phase connection & one earth
Up to 4 pilots (optional)
- Insulators: Silicone or Teflon
- IP65 rated & corrosion resistant
- Maximum cable diameter (415 unit): 90mm
- Maximum cable diameter (515 unit): 100mm
- Maximum 240sq mm
- Maximum conductor size: 22mm
- Plug & socket rated at 15kV 500A
- Quick-Release mechanism (quick-thread available on request)
- Optional epoxy powder coating

Electrical Characteristics

- Dry lightning impulse 55kV (Test report: HV/100289A)
- Phase-to-phase 32kV
- Phase-to-earth 17kV



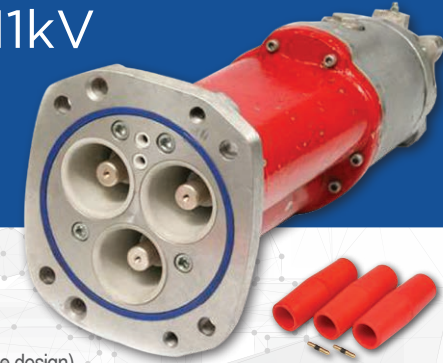
Features and Benefits

- Flexible silicone insulators that can be individually replaced
- Lightweight aluminium design
- Rear grommets cut to suite cable OD
- Stainless steel pilots: Prevent bending during coupling
- 15000 Volt 500A rated
- Guide pin for ease of fitment

Applications

- Primarily used in opencast applications
- Power supply to rock drills & shovels
- Used with Texoprene flexible mining cable

400A 22kV & 800A 11kV HALF COUPLER / ADAPTOR and KIT



- Complete phase segregation, no phase-to-phase failures
- Conductors: Crimped, grub screw or crimp type connectors
- Designed to enhance customer usage & improved safety (solid cage design)
- Each pin has three grub screws for clamping the conductors
- Housing: Aluminium
- Main contact pins: Solid copper; Pilot pins: Solid brass
(These can be drilled out to suite the size of the conductors being used)
- The unit is electrically homogeneous to the cable when terminated
- Three Insulators made from specialised insulation material
- Silicon connecting sleeves contains self extinguishing agents to eliminate partial discharge
- Optional epoxy powder coating



Tests Conducted

- High voltage withstand test 50kV at 50Hz for 1 min
- Lightning impulse test - 125kV 10 positive & 10 negative
- Temperature rise: 400A
- Tension test: Gland (Report GA01B92007)
- Tension test: Contact assembly (Report GA01B92014)
- Through fault test 20Ka for 1 sec (Report 794/8405/H37)
- Overpressure voltage test on insulators - 60kV
- Optional epoxy powder coating

400A 25kv Unit



Features and Benefits

- Front flange easily removable if damaged (800A only)
- Individually screened phases
- Lightweight aluminium design
- Maximum cable OD: 240sqmm
- Rear grommets cut to suite cable OD
- Silicone connection tubes for improved insulation
- Solid body or split unit
- Up to 3 auxiliary pins available (excluding earth)



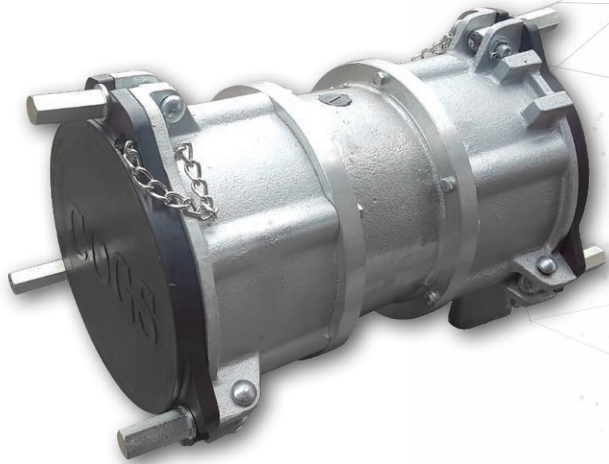
Applications

- Primarily used in opencast and tunneling applications
- Power supply to TBM's and draglines
- Used with flexible mining cable (such as our Texoprene TRM cable or SWA cable)

SURFACE MINING COUPLER POINT SKID



JANUS COUPLER



SURFACE MINING SKID



SKID and JANUS COUPLER



PROOF MINING SERVICES [PTY] LTD

HEAD OFFICE | 087 152 5050

sales@proofmining.co.za | accounts@proofmining.co.za | technical@proofmining.co.za

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After Sales Service Solutions

- » Coupler repair services (available on request)
- » Spares locally manufactured (ex-stock)
- » Technical back-up and support 24/7
- » Termination of the cable into the coupler (available on request)
- » Training on terminating the coupler (available on request)



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