



CORROSION CONTROL

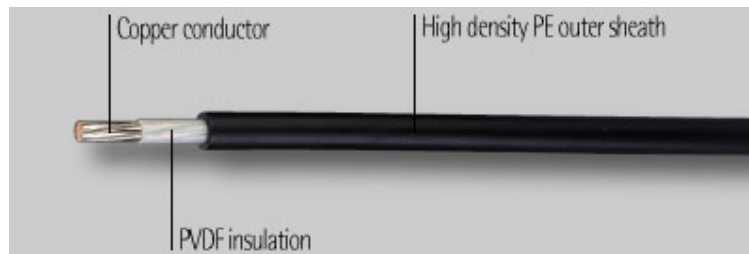
## Technical Datasheet

### SINGLE CORE CABLE – PVDF/HMWPE

- **Insulation:** Polyvinylidene fluoride (PVDF) is a tough, engineering thermoplastic that offers a unique balance of properties. It has the characteristic stability of fluoropolymers when exposed to harsh thermal, chemical, and ultraviolet environments, while the alternating CH<sub>2</sub> and CF<sub>2</sub> groups along the polymer chain provide a unique polarity that influences its solubility and electric properties.

Key Attributes of PVDF include:

- Mechanical strength and toughness
  - High abrasion resistance
  - High thermal stability
  - Resistant to most chemicals and solvents
  - Resistant to ultraviolet radiation
  - Resistant to weathering
  - Low permeability to most gases and liquids
  - Low flame and smoke characteristics
- **Sheath:** High-Molecular Weight Polyethylene (HMWPE), which provides outstanding dielectric strength and moisture resistance. During the installation the cable can withstand considerable mechanical abuse without risk of damage to the copper electrical conductor. The polyethylene cover is also chemically resistant and protects against most organic and inorganic substances.
  - **Conductor:** Stranded or Solid Plain Annealed Copper.
  - **Application:** Designed for use in cathodic protection groundbeds where the evolution of chlorine gas is expected. PVDF has excellent resistance to chemical attack and is recommended for all BAC MMO anode strings especially those for deep well groundbeds.
  - **Technical Data:** Voltage: 600/1000V,  
Temperature range: -20 °C to +90 °C



#### Sizes and Dimensions

All sizes and dimensions are approximate and for information only. BAC will confirm actual dimensions at time of order if required:

Conductor Size (mm <sup>2</sup> )	Number of Strands	Nom. O.D. (mm)	Approx. Nett Weight (kg/km)
6	7	7.5	89
10	7	8.4	144
16	7	9.4	196
25	19	11.1	312
35	19	12.3	409