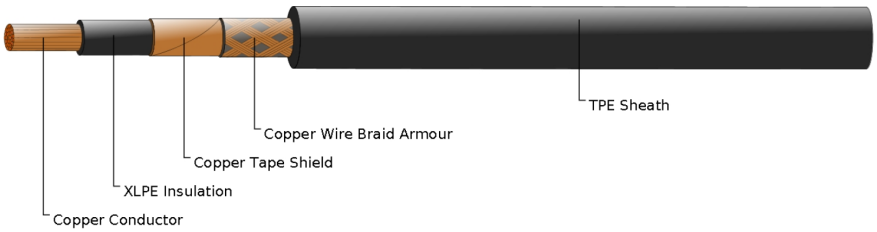
Caledonian

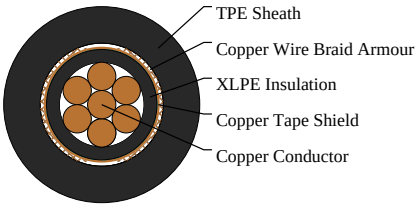
VFD Cable

www.caledonian-cables.com marketing@caledonian-cables.com

Armoured VFD Cable with EMC Screening

1C16





APPLICATIONS

These cables are used for fixed installation in most areas and on open deck in ships.Design to meet requirements for Variable Frequency Drivers (VFD). Suitable for voltage peaks to 3kV (for cables ≥ 10mm2).

VOLTAGE RATING

1.8/3kV (3.6kV)

CABLE CONSTRUCTION

Conductor: Stranded copper conductor conforming to IEC60288 Class 5.
Insulation: XLPE insulation conforming to IEC60092-351.
Filler: Non-hygroscopic filler tape.
Shield: Copper tape.
Armor: Copper wire braid, coverage > 90%.
Sheath: Black, polyolefine plastic, SHF1 conforming to IEC 60092-359.Special TPE compound, oil, ozone, UV resistant, flame and heat resistant. All-weather flexibility.

PHYSICAL AND THERMAL PROPERTIES

Maximum conductor temperature: + 90 °C
Minimum recommended installation temperature: -15 °C
Lowest operation temperature: -40 °C
Flame-retardant: IEC 60332-1-2 -test for single insulated wire and cable IEC 60332-3-22 -test for bunched wires and cables,category A
Halogen-free: IEC 60754
Smoke emission: IEC 61034
Transfer impedance: IEC 61196-1 (typical value 26dB over 1mΩ/m at 100MHz [20mΩ/m])

DIMENSION AND PARAMETERS

No. of Cores × Cross-sectional Area	Copper Tape Screen Area	Outer Diameter	Approx. Weight	Min. Bend LBS/Radius	Current Rating
No.×mm²	mm²	mm	kg/km	mm	A

1x16	5.2	13.5	340	85	96