

SHIELDING

ZETABON™

Zetabon™ Armour Shield



Zetabon™ is a copolymer coated aluminum or copper barrier tape that is applied longitudinally by folding over the cable core with an overlap. As an option, the tape can be corrugated for better flexibility and flex life.

Zetabon™ has an aluminum metal thickness of 0.008" and the copper can be 0.005" or 0.010" thick. Both metal tapes have a 0.002" thickness of polymer coating on each side that enables the tape to bond to itself at the tape overlap and also bond to the outer jacket to provide a vapour and moisture tight barrier. Typically a CPE, LSZH or HDPE jacket is applied over the longitudinal tape which adds to the cables excellent chemical and oil resistance properties.

Applications

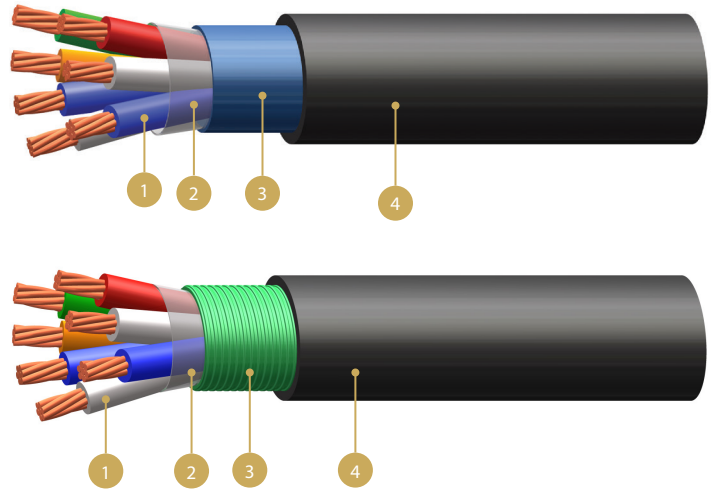
Mainly for direct burial but is also suitable for any outdoor installation as the Zetabon™ armor minimizes the adverse effects of chewing rodents, water, lightning, corrosive chemicals, gases and physical stresses thereby resulting in higher cable system reliability and lower total system costs.

Features

- The longitudinal tape will bond to itself at the overlap and will also bond to the jacket
- This sealing blocks any water, chemicals or gaseous vapours from penetrating to the insulated conductors. It also provides some mechanical strength for crush and impact protection
- An additional benefit is shielding outside noise from adversely affecting the signal carried by the cables and helping to contain electromagnetic energy within the cable so that it does not radiate and interfere with other nearby circuits or cables

Constructions

- Single/multi-pair and triad instrumentation cables will typically utilize aluminum Zetabon™ tapes and multiple conductor control and power cables will typically utilize copper Zetabon™ tapes although either system can be used on any cable
- Optional inner jacket can be applied over cable core; under Zetabon™ tape for additional cable protection



1. Insulated Conductors
2. Polyester Separator Tape
3. Zetabon™ Armour/Shielding Tape
4. Protective Jacket

Approvals

- UL 1277, Tray Cables
- UL 13, Power Limited Circuit Cables
- UL 2250, Instrumentation Tray Cables
- UL 2277, Wind Turbine Tray Cables
- CSA C22.2 #239, Control & Instrumentation Cables
- CSA C22.2 #230, Tray Cables
- CSA C22.2 #38, Thermoset Insulated Wires & Cables
- ICEA S-95-658 (NEMA WC 70), Power Cables
- ICEA S-73 532 (NEMA WC 53,) Control & Instrumentation Cables

Zetabon™ is a registered trademark of Dow Chemical.

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