

# Transmission / Distribution

## 3M™ ACCR

### 3M™ Aluminum Conductor Composite Reinforced Proven Solutions to Increase Capacity



#### More amps on the same size conductors, for your toughest transmission challenges

3M Aluminum Conductor Composite Reinforced (ACCR) is an all-aluminum-based conductor designed as a drop-in replacement for ACSR and ACSS. Its properties enable transmission capacity increases, up to twice as much or more, on existing structures, while matching or improving tensions and clearances. The round-wire construction is composed of a multi-strand, aluminum-matrix core surrounded by aluminum-zirconium outer wires that are round in shape.

3M offer both Round-wire and Trapwire construction, these are composed of a multi-strand aluminium matrix core surrounded by aluminium zirconium outer wires.

Round-wire, is the most commonly used transmission conductor construction and frequently offers the largest capacity increase because of its low weight.

Where as Trapwire conductors maximise the amount of current carrying aluminium within the same total diameter, resulting in an increase in conductivity that may reduce the resistive losses in the line.

Both types of conductors are designed to operate at high temperatures with less sag than conventional conductors

#### Technical Support

Finding the right solution can require knowledgeable support. Our experienced technical team, with their proven record of successful solutions, can help you with:

- Balancing capacity, efficiency, mechanical load, clearance, economic and environmental objectives to find the best solution
- Evaluating line characteristics to define the right mix of conductor and accessories;
- Providing you with data and information on the phone, through e-mail or on-site;
- Assisting you to compare options in PLS-CADD™, SAG10™ and other design software;
- Supporting your installation crew with training and consultation throughout the process.

All to provide you the most value from your upgrade and ensure a successful project.



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