



MODIFIED INTEGRAL FILL CONSTRUCTIONS FOR ROUND MINING CABLES TIGER

Nexans AmerCable has developed a new style of filling a cable core. Previously, either rubber or synthetic plastic ropes were used to fill the interstices over the grounds and ground-check conductors. The filler material selected depended upon the cable type and/or the application of the cable. At the cabling machine, the power conductors are pulled from their supply reels down until they contact one another and are placed in a helix. The grounds and ground-check are laid into the interstices in intimate contact with the power conductors. In the old construction, the fillers were then laid on top of the grounds and a rubber filled cloth tape helically applied. The new style has this tape helically wrapped directly over the cabled conductors. Ample overlap of the tape provides a smooth core for jacket extrusion. The jacket material is then extruded directly over this tape. There is some elasticity to the tape, which allows the jacket to conform to the core.

Several important advantages will be realized from this change:

1. Integral fill design has better performance in the field.
2. Torsion resistance is improved on integrally filled cable.
3. Compression of fillers is eliminated, giving a better, more round appearance to the cable.
4. Manufacturing throughput is increased, yielding shorter lead times.

The end result is a better product, at a reasonable cost, for the mining industry.

