



Cable Management



Product:

NSF Cable Splice Cover

Problem:

The Arctic Neutrino detection programs "String of Pearls" cable splicing problem required cables 1.5 miles long to be easily fed down drill holes. Due to the limited "on-ice" time and -40°C operating conditions the solution needed to add cable splice protection, improve splice visibility and ease splice handling and installation into the tower feed tube.

Solution:

A specialized low temperature containment jacket was required to reduce installation time, increase splice reliability and ease cable splice handling and tube entry. The jacket would have to be highly visible, remain flexible at the -40°C installation temperatures, be easy to close with glove covered hands and add the needed mechanical protection to the cable splices.

Material:

Zippertubing's red colored **VNH-23** low temperature jacket material was combined with low temperature EVA foam padding, a special Nylon zipper and Nylon webbing cinch straps and pull straps. The completed product created an easily zipped on jacket that remained flexible at the low temperature, was highly visible on the ice and supplied the needed cable protection.



Conclusion:

This customized variant of Zippertubing's standard **VNH-23** material and jacket configurations eliminated all of the on-site installation and handling problems. The system is currently in use at the Antarctic Research site.