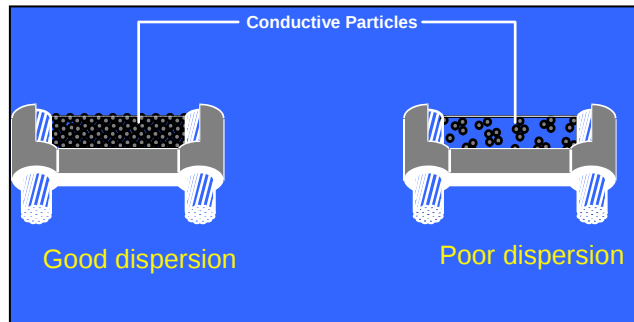


QUALITY CRITERIAS for SELF REGULATING CABLES

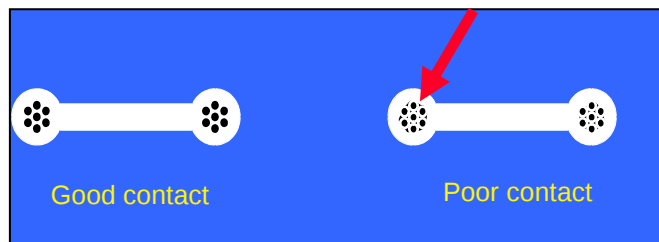
1) Non-uniform distribution of carbon particles:

Causes localized internal overheating and reduced life



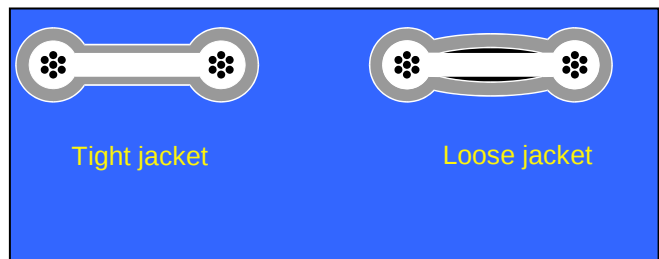
2) Poor contact of conductors with the heating core:

Causes localized overheating around the bus wires and reduced life



3) Loose insulating jackets:

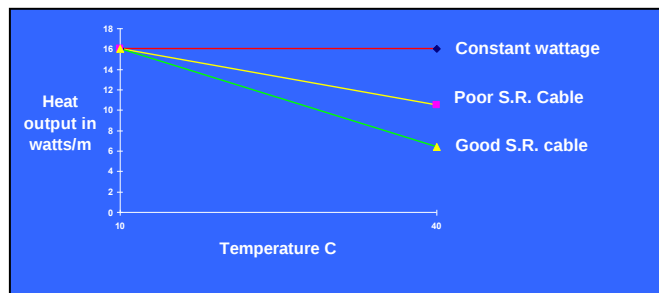
Causes overheating of the core prematurely resulting in reduced life



4) Low SR Index

Benefits of Higher SR index:

- Quicker heat up
- Higher energy savings
- Unconditional temperature classifications
- Safe for plastic pipes
- Use of SR cables without thermostats



Tests for Self Regulating Cables

Thermal Cycling: Thermal cycling test detects the common manufacturing defects. Higher cycling capability leads to longer life

Long Term Aging: Long term Arrhenius accelerated aging test allows prediction of product life and built in safety factors

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