



## Low Voltage Zero Halogen Cable Joints for limited Fire Hazard Cables



- Fire tested and compliant with London Underground standards 2-0100-002 or the fire safety of materials and E4156 for the cable standard
- Slim profile and unlimited shelf life complete with range taking mechanical shearbolt connectors if required
- Full range of joints available for all cable types including power and multicore cables

Shrink Polymer Systems offer a comprehensive range of heat shrink joints suitable for both single and multicore low smoke fume zero halogen cables.

Developed for London Underground for use within the tunnels and above surface, the system incorporates flame retardant, non halogen polyolefin heat shrink tubing with a meltable inner liner that itself has excellent fire resistance and reduced acid gas emissions.



The system incorporates a high degree of fire resistance. For installations outside of the tunnels, this can be omitted.



Tel: +44 (0)191 490 1547  
Fax: +44 (0)191 477 5371  
Email: [northersales@thorneandderrick.co.uk](mailto:northersales@thorneandderrick.co.uk)  
Website: [www.cablejoints.co.uk](http://www.cablejoints.co.uk)  
[www.thorneandderrick.co.uk](http://www.thorneandderrick.co.uk)

For ease of use, the range can be supplied with range finding mechanical shearbolt connectors. Slim in profile, the joints can be installed in horizontal and vertical planes and have an unlimited shelf life.

### Joints to Suit Single or 2/3/4 Core XLPE / EPR Cables

Part Number	Cable Range	Voltage
SPA NHF 1.5-2.5 –	1.5-2.5mm <sup>2</sup>	600/1000V
SPA NHF 4-6 –	4-6mm <sup>2</sup>	600/1000V
SPA NHF 10-16 –	10-16mm <sup>2</sup>	600/1000V
SPA NHF 25-50 –	25-50mm <sup>2</sup>	600/1000V
SPA NHF 70-95 –	70-95mm <sup>2</sup>	600/1000V
SPA NHF 120-185 –	120-185mm <sup>2</sup>	600/1000V
SPA NHF 240-300 –	240-300mm <sup>2</sup>	600/1000V
SPA NHF 400-630 –	400-630mm <sup>2</sup>	600/1000V
SPA NHF 800-1000 –	800-1000mm <sup>2</sup>	600/1000V

#### Notes:

1. For non armoured joints, omit letter (A) from the part number
2. Add last digit to part number to indicate number of cores



### Joins to Suit Multicore / Multipair XLPE / EPR Cables

Part Number	Cable Range	Voltage
SPA NHF 1.5-2.5-5	5 core 1.5-2.5mm <sup>2</sup>	600/1000V
SPA NHF 1.5-2.5-7	7 core 1.5-2.5mm <sup>2</sup>	600/1000V
SPA NHF 1.5-2.5-12	12 core 1.5-2.5mm <sup>2</sup>	600/1000V
SPA NHF 1.5-2.5-19	19 core 1.5-2.5mm <sup>2</sup>	600/1000V
SPA NHF 1.5-2.5-27	27 core 1.5-2.5mm <sup>2</sup>	600/1000V
SPA NHF 1.5-2.5-37	37 core 1.5-2.5mm <sup>2</sup>	600/1000V
SPA NHF 1.5-2.5-48	48 core 1.5-2.5mm <sup>2</sup>	600/1000V
SPA NHF 1.5-2.5-61	61 core 1.5-2.5mm <sup>2</sup>	600/1000V

**Notes:**

1. For non armoured joints, omit letter (A) from the part number
2. Add letter “PR” to end of part number to indicate multipair cables
3. If cable size is 0.5-1.5mm<sup>2</sup>, insert 0.5-1.5mm after SPA NHF then number of cores

## Low Voltage Zero Halogen Cable Joints for Fire Resistant Cables



- Designed for use where low smoke fume and fire resistance is essential
- Designed and tested in leading UK fire testing laboratory, in accordance with the procedures specified in IEC 60331-21:1999
- Test report available
- Joints available for all types of LV and MV cables

Fire resistant cables are usually installed where vital electrical circuits are required to continue operating in the event of a fire. Shrink Polymer Systems can provide joint kits to suit these cable types for both single and multicore configurations.

In addition to utilising LSF/Zero halogen heat shrink tubes and fire barrier tubes, the joints also incorporate mica tape over each of the cores.

Mica tape is a slit silica tape constructed from 96% pure SiO<sub>2</sub> silica fiber, coated one side with a pressure sensitive adhesive backing that facilitates installation. The adhesive decomposes at high temperatures, leaving a perfectly taped core

Suitable for use at 1800°F (982°C), and able to withstand short term exposure up to 3000°F (1650°C), mica tape when combined with our proven zero halogen joint range, enables the joint to work in these extreme conditions.

