

Materials List for:

# Design, Instrumentation and Usage Protocols for Distributed In Situ Thermal Hot Spots Monitoring in Electric Coils using FBG Sensor Multiplexing

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## Materials

| Name                | Company        | Catalog Number      | Comments   |
|---------------------|----------------|---------------------|--|
| Cletop-S            | Fujikura       | 14110601            | Commercial optic connector cleaner                 |
| Copper wire AWG24   | RS             | 357-744             | Commercial insulated copper wire                   |
| DC power supply     | TTi            | CPX400SP            | Commercial 420W DC power supply                    |
| FBG sensors         | ATGratings     | NA                  | Commerically manufactured FBG array to design spec |
| Heat Shrink Tubing  | RS             | 700-4532            | Heat Shrink Tubing 3mm Sleeve Dia. x 10m           |
| Kapton masking tape | RS             | 436-2762            | Orange Masking Tape Tesa 51408                     |
| PEEK tubing         | Polyflon       | 4901000060          | Commercial PEEK tubing                             |
| SmartScan04         | Smartfibres UK | S-Scan-04-F-60-U-UK | Commercial interrogator system                     |
| Thermal Oven        | Lenton         | WHT6/30             | Commercial thermal oven                            |
| Winder machine      | RS             | 244-2636            | Commercial winder machine                          |