



**Fire Resistant Cable
Jacket Material Solution**



Application Advantages

LSZH

- 1.Support cable pass the BS6387 GBT19216 fire resistance Vibration test.
- 2.Support cable pass 3Hrs long period on-line fire resistance test with excellent performance of porcelain crusting in combustion process.

Properties Datasheet

| Item | Material properties | Test standard | Test condition | Unit | Model | Model |
|--------------------------|---------------------------------------|---------------|----------------|-------------------|---|--|
| | | | | | TCHS-0001S Ceramic Silicone Rubber | TCHE-0001S Ceramic Polyolefin |
| Physical characteristics | Hardness | DIN 53505 | 155 | Shore A | 70A | 95A |
| | Proportion | DIN 53479 | - | g/cm ³ | 1.46 | 1.6 |
| | Brittle temperature | ISO 812 | - | °C | -40 | -20 |
| mechanical properties | Elongation | DIN 53504 | 200mm/min | % | 447 | 160 |
| | Tensile Strength | DIN 53504 | 200mm/min | Mpa | 10.7 | 6.5 |
| Hot air aging | Heat aging condition | DIN 53504 | 158°C/168h | % | 100×168 | 100×168 |
| | Tensile Strength/ Break Elongation | DIN 53504 | 158°C/168h | % | 82/65 | 80/78 |
| Electrical performance | Volume resistivity | ASTM D257 | - | Ω·m | 9.5×10 ¹⁵ | 1.0×10 ¹² |
| | Dielectric strength | ASTM D149 | - | MV/m | 28 | 25 |
| Combustion performance | Oxygen index | ASTM D2863 | - | % | 38 | 27 |
| Feature | | | | | Excellent porcelain forming ability, meet BS6387 and GB/T19216 fire resistance spray and vibration test | Used as fireproof layer for fireproof cables, communication cables and electric wiring, in combination with mica tape, especially suitable for small size fireproof cables, through IEC 60331 and BS 6387 fireproof test |



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