



**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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