



**ATP**olymer

**Network Cable Jacket Material (LSZH)**

ATP POLYMER TECHNOLOGY CO., LTD

## CPR Jacket Material – LSZH

### 1. High flame retardant performance :

- >> Fully support the network cable through the EN 50575:2014+A1:2016 B2ca, Cca, Dca level test (different product models meet different CPR level requirements);
- >> Very effective total heat release and heat release rate peak control scheme. The carbonization efficiency is higher. When burning, the cable surface can be quickly charred to form an effective fiber protective layer; the generation of smoke during combustion and the release of halogen acid gas are also in full compliance with the CPR regulations;

### 2. Safety and reliability :

- Fully support the cable through environmental resistance test as follows;
- >> Passed high temperature cracking test (YD/T1113 100 ° C, 96H, no crackle on surface);
- >> Pass the high temperature aging test (100 ° C, 168H, tensile strength and elongation change rate ≤ 30%);
- >> Pass the -25 ° C low temperature shock test.

### 3. Good wear resistance:

Better wear and scratch resistance under same test conditions;

### 4. Easier processing :

Fully meet the high-speed extrusion of optical cables; the wire diameter is round and stable, less flow (less die deposit), good color stability, higher processing yield rate.

### 5. Stable performance and quality :

The product batch stability and uniformity are guaranteed. .

## Application Advantages

The new generation of network cable jacket material LSZH series (CPRsupport™) are high flame retardant LSZH product developed by ATP for network cables, meeting the latest EU CPR building codes and GB31247 requirements. Compared to traditional LSZH products, CPRsupport™ has undergone more long-term research and development, more complete and rigorous comprehensive performance testing. It is a new upgraded version of the traditional LSZH material, fully improved in the selection of raw materials, flame retardant system innovation, lubrication system innovation and production process control.

## Properties Datasheet

					Model	Model	Model
Item	Material properties	Test standard	Test condition	unit	5644S	5653S	5631E
<b>Physical characteristics</b>	Hardness	DIN 53505	155	Shore A	97	95	92
	Proportion	DIN 53479	-	g/cm <sup>3</sup>	1.55	1.52	1.49
	Brittle temperature	ISO 812	-	°C	-20	-20	-20
<b>Mechanical properties</b>	Elongation	DIN 53504	200mm/min	%	150	180	170
	Tensile Strength	DIN 53504	200mm/min	Mpa	10	12.5	11
<b>Hot air aging</b>	Heat aging condition	DIN 53504	158°C/168h	%	110×240	110×240	110×168
	Tensile Strength/ Break Elongation	DIN 53504	158°C/168h	%	115/88	112/85	100/90
<b>Electrical performance</b>	Volume resistivity	ASTM D257	-	Ω·m	2.5×10 <sup>12</sup>	3.8×10 <sup>12</sup>	2.3×10 <sup>12</sup>
	Dielectric strength	ASTM D149	-	MV/m	24	24	23
<b>Combustion performance</b>	Oxygen index	ASTM D2863	-	%	41	37	31
<b>Feature</b>					High flame retardant sheathing material, meeting CPR-Cca and GB 31247 B2 flame retardant grading test.	Flame-retardant jacket material meets CPR-Dca flame retardant grading test.	Flame-retardant jacket material meets CPR-Eca flame retardant grading test.



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