

Network Cable Jacket Material

CPR Jacket Material – LSZH

1. High flame retardant pperformance :

- >> 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 $^{\circ}$ C, 168H, tensile strength and elongation change rate \leq 30%);
- >> Pass the -25 ° C low temperature shock test.

3. Good wear resistance:

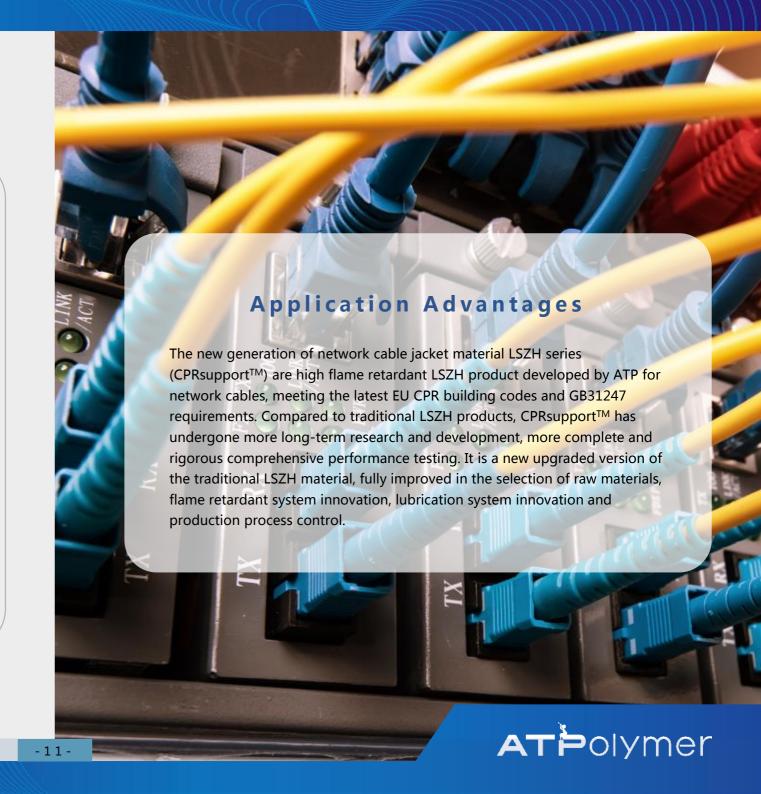
Better wear and scratch resistance under same test conditions;

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. .



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Properties Datasheet

					Model	Model	Model
Item	Material properties	Test standard	Test condition	unit	5644S	5653S	5631E
Physical characteristics	Hardness	DIN 53505	155	Shore A	97	95	92
	Proportion	DIN 53479	-	g/cm³	1.55	1.52	1.49
	Brittle temperature	ISO 812	-	°C	-20	-20	-20
Mechanical properties	Elongation	DIN 53504	200mm/min	%	150	180	170
	Tensile Strength	DIN 53504	200mm/min	Мра	10	12.5	11
Hot air aging	Heat aging condition	DIN 53504	158°C/168h	%	110×240	110×240	110×168
	Tensile Strength/ Break Elongation	DIN 53504	158℃/168h	%	115/88	112/85	100/90
Electrical performance	Volume resistivity	ASTM D257	-	Ω·m	2.5×10 ¹²	3.8×10 ¹²	2.3×10 ¹²
	Dielectric strength	ASTM D149	-	MV/m	24	24	23
Combustion performance	Oxygen index	ASTM D2863	-	%	41	37	31
Feature					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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