

PVC & LSF Shroud

The Shrouds are made from high grade polyvinyl chloride. The shrouds are used to increase the protection against external chemical and environmental agents of cable glands, specially on cable entrance. The significant reduction of dirt or foreign substances on the cable gland will facilitate the future maintenance of cable glands. The arrow end of the sleeves is readily cut with a knife, enabling it to be slipped over a wide range of cable diameters and assists ease of installations. Standard Shrouds are produced from black PVC. LSF shroud mostly used in grey colour but we also supply in white, red, blue colour.

PVC is a very versatile and cost-effective material. Its main properties and benefits include:

1. Electrical Properties :

PVC is a good insulation material, thanks to its good dielectric strength.

2. Durability :

PVC is resistant to weathering, chemical rotting, corrosion, shock and abrasion. It is therefore the preferred choice for many long-life and outdoor products.

3. Flame Retardancy :

Because of its high chlorine content, PVC products are self-extinguishing. Its oxidation index is ≥ 45 . Antimony trioxide has been used extensively, usually in combination with phosphate ester plasticizers, giving excellent fire performance and mechanical properties.

4. Cost/Performance Ratio :

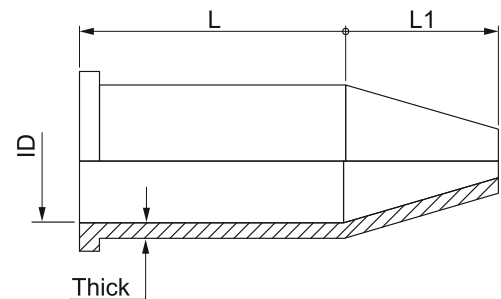
PVC has good physical as well as mechanical properties and provides excellent cost-performance advantages. It has long life span and need low maintenance.

5. Mechanical Properties :

PVC is abrasion-resistant, lightweight and tough.

6. Chemical Resistance :

PVC is resistant to all inorganic chemicals. It has very good resistance against diluted acids, diluted alkalis and aliphatic hydrocarbons. Attacked by ketones; some grades swollen or attacked by chlorinated and aromatic hydrocarbons, esters, some aromatic ethers and amines, and nitro- compounds



Technical Information:

What is the difference between LSZH, LSF and PVC?

PVC Shroud (made of polyvinyl chloride) has a jacket that gives off heavy black smoke, hydrochloric acid, and other toxic gases when it burns. Low Smoke Zero Halogen (LSZH) cable has a flame-resistant jacket that doesn't emit toxic fumes even if it burns.

Acronyms for low smoke zero halogen / halogen free include LSZH, LSHF, LSOH & OHLS. All these terms are interchangeable.

LSZH shroud are increasingly recommended for use in public buildings for increased fire safety in comparison to traditional PVC (polyvinylchloride). LSZH is often confused with LSF (low smoke & fume) but they are really very different!

PVC Shroud:

Standard PVC is made up of a significant number of halogens which when burnt produce toxic gases including hydrogen chloride (HCL). Hydrogen chloride is extremely dangerous and corrosive, capable of causing serious harm to people and equipment. It can even be compared to mustard gas which is used as a chemical weapon. Standard PVC can produce around 28% HCL emissions if burnt.

LSF Shroud:

The term LSF only indicates that the shroud offers reduced smoke emission fire propagation compared with standard PVC. There is no standard governing the HCL emissions of LSF cable but it will often produce between 18-220. HCL emissions when burnt which is still extremely hazardous.

LSZH Shroud:

The term zero halogen (interchangeable with halogen free) guarantees that if burnt the shroud will produce less than 0.5% HCL (hydrogen chloride) emissions. The standard sheathing material is fairly tough & flexible with resistance to a wide range of oils & chemicals.

Confusion sometimes arises due to the number of different terms in use within the industry for LSZH and the similarity of these terms to LSF. To add to this some manufacturers of shrouds that are actually LSZH describe and even print them as LSF.

Another common misunderstanding is that LSF or LSZH shroud is also flame retardant or fire resistant, this is not necessarily the case and should be established separately if required. The term "flame retardant" indicates a shroud that will inhibit or slow the spread of fire. The term "fire resistant" indicates a shroud that will continue to operate in the presence of a fire. There are several recognised standards for flame retardance and fire resistance in shroud.



SHROUD FOR BW CABLE GLAND

SIZE	PVC CODE	LSF CODE	ID	L	L1	Thick
20s	CPSB20S	CLSB20S	23.00	35.00	25.00	1.20
20L	CPSB20L	CLSB20L	25.00	36.00	26.00	1.20
25S	CPSB25S	CLSB25S	34.50	39.00	27.00	1.20
25L	CPSB25L	CLSB25L	34.50	39.00	27.00	1.20
32S	CPSB32S	CLSB32S	40.00	39.00	30.00	1.20
32L	CPSB32L	CLSB32L	40.00	39.00	30.00	1.25
40S	CPSB40S	CLSB40S	46.00	40.00	50.00	1.40
40L	CPSB40L	CLSB40L	50.00	45.00	45.00	1.40
50s	CPSB50S	CLSB50S	60.00	50.00	60.00	1.40
50L	CPSB50L	CLSB50L	64.00	50.00	70.00	1.45
63s	CPSB63S	CLSB63S	76.00	65.00	70.00	1.50
63L	CPSB63L	CLSB63L	79.00	63.00	62.00	1.50
75s	CPSB75S	CLSB75S	85.00	70.00	63.00	1.75
75L	CPSB75L	CLSB75L	92.00	65.00	65.00	1.75
82L	CPSB82L	CLSB82L	103.00	75.00	80.00	1.75
90S	CPSB90S	CLSB90S	120.00	75.00	95.00	1.75
90L	CPSB90L	CLSB90L	120.00	75.00	95.00	1.75

SHROUD FOR CW CABLE GLAND

SIZE	PVC CODE	LSF CODE	ID	L	L1	Thick
16.00	CPSC20S	CLSC20S	23.00	52.00	40.00	1.20
20s16	CPSC20S	CLSC20S	23.00	52.00	40.00	1.20
20s	CPSC20S	CLSC20S	23.00	52.00	40.00	1.20
20L	CPSC20L	CLSC20L	27.25	52.00	40.00	1.20
25S	CPSC25S	CLSC25S	31.50	52.00	40.00	1.20
25L	CPSC25L	CLSC25L	36.00	52.00	40.00	1.20
32S	CPSC32S	CLSC32S	42.00	52.00	40.00	1.20
32L	CPSC32L	CLSC32L	42.00	52.00	40.00	1.20
40S	CPSC40S	CLSC40S	46.00	60.00	60.00	1.40
40L	CPSC40L	CLSC40L	51.00	65.00	65.00	1.40
50s	CPSC50S	CLSC50S	61.00	63.00	80.00	1.50
50L	CPSC50L	CLSC50L	63.00	70.00	90.00	1.50
63s	CPSC63S	CLSC63S	73.00	75.00	80.00	1.70
63L	CPSC63L	CLSC63L	82.00	90.00	105.00	1.70
75s	CPSC75S	CLSC75S	88.00	95.00	105.00	1.80
75L	CPSC75L	CLSC75L	95.00		105.00	1.80
90L	CPSC90L	CLSC90L	120.00	75.00	95.00	1.80
90S	CPSC90S	CLSC90S	120.00	75.00	95.00	1.80

SHROUD FOR A2 CABLE GLAND

SIZE	PVC CODE	LSF CODE	ID	L	L1	Thick
20s	CPSA220S	CLSA220S	23.00	35.00	25.00	1.50
20L	CPSA220L	CLSA220L	27.00	35.00	25.00	1.50
25S	CPSA225S	CLSA225S	38.00	45.00	45.00	1.50
25L	CPSA225L	CLSA225L	38.00	45.00	45.00	1.50
32S	CPSA232S	CLSA232S	46.00	40.00	50.00	1.50
32L	CPSA232L	CLSA232L	46.00	40.00	50.00	1.50
40S	CPSA240S	CLSA240S	50.00	45.00	45.00	1.50
40L	CPSA240L	CLSA240L	50.00	45.00	45.00	1.50
50s	CPSA250S	CLSA250S	58.00	60.00	50.00	1.50
50L	CPSA250L	CLSA250L	64.00	50.00	70.00	1.50
63s	CPSA263S	CLSA263S	68.00	65.00	55.00	1.50
63L	CPSA263L	CLSA263L	79.00	63.00	62.00	1.50
75s	CPSA275S	CLSA275S	85.00	70.00	63.00	1.50
75L	CPSA275L	CLSA275L	95.00	65.00	65.00	1.50
90L	CPSA290L	CLSA290L	120.00	75.00	95.00	1.50
90S	CPSA290S	CLSA290S	120.00	75.00	95.00	1.50

SHROUD FOR E1W CABLE GLAND

SIZE	PVC CODE	LSF CODE	ID	L	L1	Thick
20s	CPSE1W20S	CLSE1W20S	25.00	45.00	45.00	1.50
20L	CPSE1W20L	CLSE1W20L	32.00	50.00	65.00	1.50
25S	CPSE1W25S	CLSE1W25S	38.00	50.00	60.00	1.50
25L	CPSE1W25L	CLSE1W25L	38.00	50.00	60.00	1.50
32S	CPSE1W32S	CLSE1W32S	51.00	60.00	55.00	1.50
32L	CPSE1W32L	CLSE1W32L	51.00	60.00	55.00	1.50
40S	CPSE1W40S	CLSE1W40S	58.00	65.00	90.00	1.50
40L	CPSE1W40L	CLSE1W40L	58.00	65.00	90.00	1.50
50s	CPSE1W50S	CLSE1W50S	63.00	85.00	95.00	1.50
50L	CPSE1W50L	CLSE1W50L	73.00	70.00	100.00	1.50
63s	CPSE1W63S	CLSE1W63S	82.00	95.00	105.00	1.50
63L	CPSE1W63L	CLSE1W63L	88.00	95.00	105.00	1.50
75s	CPSE1W75S	CLSE1W75S	92.00	105.00	115.00	1.50
75L	CPSE1W75L	CLSE1W75L	106.00	100.00	100.00	1.50
90L	CPSE1W90L	CLSE1W90L	120.00	75.00	95.00	1.50
90S	CPSE1W90S	CLSE1W90S	120.00	75.00	95.00	1.50