- Technical Data Sheet: High Voltage Shielded Cable (HVSC)
    - High Integrity Low Impedance method of conveying energy to ground
    - Shielded Down conductor
    - Minimises risk of side flashing
    - Reduces risk to personnel and equipment

LPI™ High Voltage Shielded Cable (HVSC)

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Product Description

LPI's High Voltage Shielded Cable (HVSC) is a high integrity low impedance cable which is designed to convey lightning energy to ground with minimal risk of "side flashing" or structure electrification. The need to reduce "side flashing" and structure electrification protects both personnel and sensitive electronic equipment from the devastating risks of a lightning strike.

The design of the HVSC incorporates carefully selected dielectric components to ensure optimum performance under high impulse conditions, this design provides a low inductance per unit length with low surge impedance. Upon the injection of lightning current through the HVSC, the voltage rise in comparison to a standard conventional down conductor such as flat copper tape is reduced by a factor of between 25 and 30.

The HVSC provides flexible installations options, whereby the cable can be installed internal to the building through air ducts, electrical cable risers, or external to the building.

Technical Data

HVSC Configuration: 7 Layer cable consisting of the following.

- Inner Core
- Concentric Conductor
- Inner Binding Tape
- Insulation Material
- Metallic Screen
- Outer Binding Tape
- Outer Sheath

Concentric Conductor:	Nominal cross sectional area 50mm²		
Sheath Thickness (Nominal)	3.00mm		
Overall Diameter (Approx)	37mm		
Weight of Cable	2.050 kg per metre		
Electrical Characteristics			
	DC Resistance of conductor at 20ºC (Max)	Ohm/km	0.387
	DC Resistance of screen at 20ºC (Max)	Ohm/km	0.448
	Insulation resistance at 20ºC (Min)	M Ohm-km	7.15
	Thermal Short circuit current (1 second)	KA	7.15

- *"**LPI Endorsed Product**" – The symbol of assurance of quality and performance.*
- *LPI has a policy of continuing product development. Therefore, the above specifications are subject to change without notice.*

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