Fire Resistant Power Cable, 0.6/1kV

FIRE RESISTANT LV CABLES

0.6/1kV cable with a mica glass tape barrier over each conductor, XLPE insulation and an LSZH sheath, for circuits that must keep working during a fire.

VOLTAGE	BARRIER	SIZE	TEST
0.6/1 kV	Mica tape	1.5 – 300 mm²	BS 6387 CWZ

TECHNICAL DATA

Standard	IEC 60502-1, IEC 60331-21, BS 6387 CWZ	**Sheath**	LSZH (standard) or PVC
Rated voltage	0.6/1 kV (U0/U)	**Fire resistance**	IEC 60331-21 750 °C / 90 min; BS 6387 C, W, Z at 950 °C
Conductor	Class 1 or Class 2 copper	**Flame propagation**	IEC 60332-3-24 Cat. C
Cross-section	1.5 – 300 mm²	**Smoke & halogen**	IEC 61034, IEC 60754
Fire barrier	Mica glass tape, lapped over conductor	**Packing**	Drum, project lengths
Insulation	XLPE		

Typical values. The final construction is confirmed on the order datasheet and the released drawing.

STANDARDS, TESTING AND DOCUMENTS

Routine tests	Conductor resistance, voltage test and insulation resistance on every length
Type tests	Type-test reports for each construction, witnessed by a third party on request
Documents with the drum	Packing list, drum list, routine test certificate, datasheet, CO / FORM A
Traceability	Drum number marked and recorded against the routine test certificate

OTHER CONSTRUCTIONS FROM THE SAME RANGE

LSZH Flame Retardant LV Cable	www.zmslvcable.com/products/lszh-flame-retardant-cables/lszh-lv-cable/
0.6/1kV PVC/XLPE Insulated LV Power Cable	www.zmslvcable.com/products/lv-power-cables-0-6-1kv/pvc-xlpe-lv-power-cable/

PACKING AND DELIVERY

Drum	Wooden or steel-framed export drum, 250–500 m per drum by cross-section
Packing	Sealed ends, protected lugs, desiccant, UV-resistant wrap
Marking	Drum no., designation, voltage, cross-section, length, gross weight
Lead time	15–25 working days for standard builds
Terms	FOB Qingdao, Tianjin or Shanghai. CIF, CFR and DAP on request

HOW TO ORDER

To quote, send the voltage class (U0/U), conductor material and cross-section, screen or armour, sheath, drum length, delivery port and the standard the project specifies. We return a released drawing, the test programme and a drum plan with the quotation.

SELECTION NOTES

What is the difference between fire resistant and flame retardant?
Flame retardant cable resists ignition and limits flame spread. Fire resistant cable maintains circuit integrity during a fire because of the mica barrier. A life-safety circuit needs the second property, and preferably both.

Which test should be specified?
IEC 60331-21 is the international baseline. BS 6387 CWZ is stricter and is usual for tunnels, high-rise and hospital projects. State the required duration and temperature in the specification.

Does the mica barrier affect current rating?
The barrier adds a small thermal resistance, but the effect is minor compared with installation conditions. The cable is rated as an XLPE 90 °C construction; confirm derating for grouping and ambient temperature.

Can it be terminated with standard glands?
Use fire-rated glands and follow the strip length so the mica tape is not damaged. Termination quality is a common cause of circuit-integrity failure in service.

Certification. Environmental management to ISO 14001:2015 and occupational health and safety to ISO 45001:2018, with CE marking under the EU low-voltage and EMC directives. Independent inspection and type testing are carried out through ISO/IEC 17020 and 17025 accredited laboratories. Certificate numbers and validity dates are published at www.zmslvcable.com/certificates/.

Request a quotation for this cable

Send the specification sheet or the cable schedule and we return a released drawing, the test programme and a drum plan with the price.

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