

GM-Z MV

Solid insulation for transformer and generator connections from 3.6 to 40.5 kV.



Nuclear power plant - reference photo

3.6–40.5 kV
MEDIUM VOLTAGE

800–6300 A
RATED CURRENT

IP68
PROTECTION (12 kV)

IK10
IMPACT RESISTANCE

GM-Z MV is the better fit if...

This is where GM-Z MV gives you the most benefit over cable.

✓ You are leaving an MV transformer or generator

One three-phase run from 800 to 6300 A replaces several parallel MV cables with their terminations and trays.

✓ The site is wet, salty or outdoors

Cast resin, IP68: operates under water jets and prolonged immersion, from –50 to +65 °C.

✓ It is a nuclear plant or a seismic zone

Meets nuclear seismic category I (intensity 8) and the nuclear standard NB/T 25076-2017.

✓ You want zero maintenance

Solid cast insulation: maintenance-free once installed, self-extinguishing and resistant to UV, fungus and rodents.

\$ You compare total installed cost, not price per meter

With MV cable, add terminations, splices, parallel cables, trays, space and field testing. On high-current connections, GM-Z MV is often the more economical choice over its service life.

TECHNICAL DATA

Conductor	Copper ≥ 99.9935 %
Rated voltage	12 kV and 35 kV classes
Rated current	800 – 6300 A • 35 kV: 1600 – 4000 A
Protection	IP68 / IK10 • 35 kV: IP67
Insulation	Cast epoxy resin • class B
Ambient temperature	–50 to +65 °C
Seismic	Nuclear category I • intensity 8
Standards	IEC 62271-1 • IEC 62271-200

Need the technical detail?

12 kV and 35 kV tables, dimensions, connectors, installation and on-site joints.

[View technical manual →](#)

Not ideal if...

✗ The system is low voltage (up to 690 V): that is what LVA and GM are for.

✗ Current is low and the run is long: MV cable is usually cheaper.

✗ The routing is still changing a lot: GM-Z MV is built to order and joints are cast on site.

WHERE IT IS USED



Nuclear power plants



Hydropower



Industrial plants



Ports

Images: reference photos. Values per technical documentation; the quote confirms the project configuration.
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