Multi Electrode Resistivity Cable

I. Applications

Multi-electrode resistivity cable (IP resistivity cable) is specially made to be used for electrical resistivity tomography, deep resistivity measurements, self potential and induced polarization(IP) measurements. It is usually work with multi-electrode resistivity instruments and switch boxes for Groundwater exploration, geotechnical investigation, monitoring of dams and dikes, environmental studies, geological survey, mineral prospecting, archaeology, detecting of cavities and buried objects, underwater, borehole and cross-hole measurements.

- Ideal for automatic transfer of multi-electrodes.
- Lighter weight but maintaining the same low noise level.
- Robust design, strong mechanical strength and good insulation performance.
- Compatible with all main stream resistivity meter, resistivity system and devices: ABEM, ARES, GDD, IRIS SYSCAL PRO, PASI RM1 Earth Resistivity Meter and etc.
- Waterproof electrode takeout (Rainfall/ Shallow Water / Submersible optional)
- 10-electrodes / 11-electrodes / 12-electrodes / 16-electrodes/ 18-electrodes/ 21-electrodes/ 24-electrodes / 28-electrodes / 30-electrodes/ 32-electrodes / 42-electrodes / 48-electrodes / 56-electodes are optional.
- Customized electrode numbering, section size, take-out type and spacing is available upon requests.

II. Cable Specifications

Type	Cable O.D	N.W/km(kgs)	Tensile Strength	Working Temperature(℃)
32 cores	7.2mm	56kgs	70kgs	-40℃~+70℃
54 cores	9.2mm	90kgs	90kgs	
66 cores	9.2mm	96kgs	110kgs	

Structure of Cable Conductor (Per core)	7nos.of Bare Copper Wires Stranding (Copper Wire O.D. 0.12mm)
Insulation Resistance	≥1000 MΩ/km
Cross Section (Per core)	0.08mm^2
DC Resistance（20℃）	≤234Ω/km
Voltage Withstand Value (Per core)	1000V
Current-Carrying Capacity per core（constant current）	≤1A