Multi core cable - core identification by black numbers continuously printed on a white background

Single phase load (230 volts) shall be connected with cable having one of core as Black Colour as neutral conductor.

1.3.31.3 Rating

A. To assess the rating and cross-section required for each cable, the following factors must be considered as a minimum:

- The normal full-load current of the equipment circuit or the anticipated maximum full load current of distributor.
- Fault level.
- Conditions of ambient temperature relevant to method of laying.
- Voltage drop
- Voltage drop in motor circuits due to the starting method.
- Over current settings circuit breakers.
- Location of cabling, whether in air, ducts or soil.

1.3.31.4 Insulation, Conductors, Armouring for Power Cable

A. All LV - power cable shall be of the thermoplastic insulated type of polyvinyl chloride (PVC) or equal and shall consist of multi core stranded copper conductors, XLPE insulation, bedding, steel wired armour and PVC sheathed and shall be of 600/1000 V grade confirming to BS 5467. Each cable shall be supplied in lengths suitable for a continuous run, as no "through joints" will be permitted in any cable run without the prior consent and written permission from the Engineer. All the power cables, except provided with the submersible pumps / munchers by the manufacturer as built in for connections up to nearest junction box, XLPE insulated, armoured PVC 600/1000 volts. Small wiring cable for use on lighting and small power shall be single core PVC insulated conform to BS 6004 and BS 6346, 600 / 1000 Volts, having a minimum conductor size of 2.5 mm^2 for lighting circuits and 4.0 mm^2 for power circuits. The neutral conductor's cross-sectional area shall not be less than that of the phase conductors. Each circuit laid in conduit shall be provided with an individual earth continuity conductor, having sufficient cross-sectional area as per standards adopted by ADDC.