



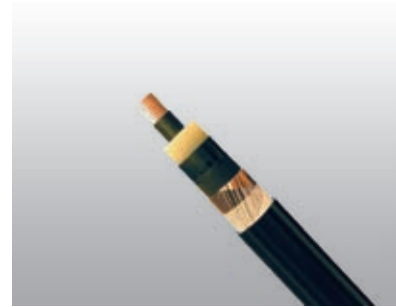
33KV Power Cables to BS 7835 NR/PS/ELP/00008

Applications

The cables are used to distribute three phase a.c. electrical power supplies at nominal system voltages of 33KV to traction substations on D.C. electrified lines.

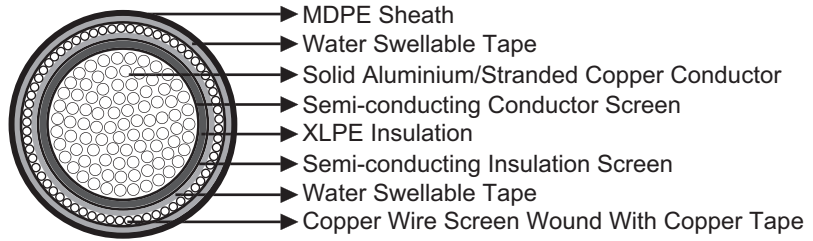
Standard

- NR/PS/ELP/00008(formerly RT/E/PS/00008)
- BS 6622, BS 6234, BS 7454
- IEC 60502-2, IEC60840

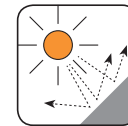


Construction

• Conductors: Class 1 circular solid aluminium (for 185 mm²) or class 2 compact circular stranded plain copper (for 300mm²) to BS EN 60228: 2005 (previously BS 6360).



- Conductor Screen: Extruded semi-conducting XLPE (Cross-Linked Polyethylene) solidly bonded.
- Insulation: XLPE (Cross-Linked Polyethylene).
- Insulation Screen: Extruded semi-conducting XLPE (Cross-Linked Polyethylene), solidly bonded and cold strippable.
- Separator: Semi conducting water blocking tape.
- Screen: Copper wire screen, helically wound with equalising copper tape.
- Separator: Semi conducting water blocking tape.
- Sheath: Graphite coated MDPE type TS2.



UV Resistant



Water Resistant

Electrical Characteristics at 20°C

| | | | |
|---------------------------------|-----------------|-------|--------|
| Nominal Conductor Cross Section | mm ² | 185 | 300 |
| Maximum DC Conductor Resistance | Ω/km | 0.164 | 0.0601 |
| Capacitance | µF/km | 0.205 | 0.243 |
| Voltage Rating | KV | 19/33 | 19/33 |

Mechanical and Thermal Properties

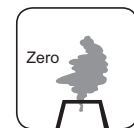
- Minimum Bending Radius: 15×OD
- Temperature Range: 0°C to +90°C (during operation);
0°C to +60°C (during installation)



Laid In Ducts



Buried in Ciround



Zero Halogen
IEC 60754-1/NF C20-454
EN 50267-2-1

Dimensions and Weight

| Cable Code | No. of cores & Nominal Conductor Cross Sectional Area No. × mm ² | Nominal Thickness of Conductor Screen mm | Nominal Thickness of Insulation & Insulation Screen mm/mm | Nominal Overall Diameter mm | Nominal Weight kg/km |
|---------------------------------|---|--|---|-----------------------------|----------------------|
| RF00008-RHZ1H16-19/33KV-1G185AL | 1×185 | 0.9 | 8.0/0.6 | 45.0 | 2200 |
| RF00008-RHZ1H16-19/33KV-1G300CU | 1×300 | 0.9 | 8.0/0.6 | 50.0 | 4500 |