**Product Description:**
Flexible multi core power cables.

**Application:**
Domestic & industrial power connections, heavy machineries, motors, generators, ship wiring
- Public buildings
- Airport, railway station
- Plant engineering and construction
- Industrial machinery, Air conditioning/installations

**Approvals:**
*Limited To IS:694 requirements

**Product features:**
- Flame retardant, Low smoke
- Halogen-free
- Oil resistant

**Colour Codes:**
- Up to 5 cores: Coloured (Red, Yellow, Blue, Black, Yellow/Green)

**Technical Data:**
- Based on IEC 60502-1 IS 694:2010
- Specific insulation resistance
  - $> 20$ G Ohm x cm

**Make Up:**
- Fine strands of electrolytic grade copper wires
- PVC Compound insulation
- Cores twisted in layers
- Outer sheathing to use, colour coded, PVC, HR, FR, FRLS, ZHFR, insulated

- Conductor stranding
  - Fine wire in accordance to VDE-0295 Class 5 / IEC 60228 Class 5
- Minimum bending radius
  - Oscillating flexing: $15 \times$ cable diameter
  - Fixed installation: $4 \times$ cable diameter
- Rated voltage
  - U0/U: $450/750 \text{ V}$
  - Fixed, protected installation: U0/U: $600/1000 \text{ V}$
- Test voltage
  - $5000 \text{ V}$ (Spark Test)
  - $3000 \text{ V}$ (Dielectric Strength)
- FRLS/Flame Properties
  - Oxygen Index as per ASTM D 2863
  - Temperature Index as per ASTM D 2863
  - Smoke Density Rating as per ASTM D 2843
  - HCL Acid Gas Generation as per IEC 754/Pt-1
  - Flammability Test as per IEEE-383
  - Swedish Chimney Test as per SEN-SS4241475
  - Thermal Stability as per IS:10810 Pt. 60
- ZHFR Properties(on sheath)
  - Corrosivity of gases evolved during combustion pH & conductivity as per IEC-60754-2
- Range of temperature
  - Normal Working Temp.: $-20^\circ \text{C}$ up to $+70^\circ \text{C}$
  - High Working Temp.: $-20^\circ \text{C}$ up to $+90^\circ \text{C}$ / $+105^\circ \text{C}$
  - Cold application Temp up to $-55^\circ \text{C}$

**Technical Specifications:**

<table>
<thead>
<tr>
<th>Part number with protective conductor(G)</th>
<th>Number of cores and mm² per Conductor with protective conductor(G) Green/Yellow</th>
<th>Outer diameter in mm approx.</th>
<th>Copper index kg/km</th>
<th>Weight kg/km approx</th>
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Product Description:
Flexible shielded single/multi core power cables. (The copper braiding serves as electromagnetic screening and could also normatively used as armouring for mechanical strength.)

Application:
- For on- and off shore applications as for instance stationary or mobile drilling rigs and marine vessels
- For electrical connection of drilling units, pumping stations, compressors, generators or also emergency power supply respectively emergency lighting in harsh environmental conditions

Approvals:

Product features:
- Cable sheath material complies with the requirements for drilling fluids as per IEC 61892-4,
- Halogen free and highly flame retardant
- Excellent moisture, UV- and mechanical abrasion resistance
- Benefits
- Reduced formation of toxic gases and fire spreading in the event of fire increase the protection against damage to persons and property
- Due to the mechanical, thermal physical properties the product is useful for many industries & branches

Colour Codes:
- Up to 11 cores: Coloured (Black, Red, Blue, Brown, Yellow, Grey, White, Green, Orange, Pink, Yellow/Green)
- More than 11 cores: Numbered

Technical Data:
- Based on
  IEC 60502-1
  IS 694:2010

Make Up:
- Fine strands of electrolytic grade copper wires
- PVC Compound insulation
- Cores twisted in layers
- Inner sheath (halogen free), black
- Tinned copper braid, shielding
- Outer sheath to use colour coded, PVC, HR, FR, FRLS, ZHFR, etc.

- Conductor stranding
  Fine wire according to VDE 0295, Class 5 / IEC 60228 Cl. 5 from 0.5 mm²
- Minimum bending radius
  Oscillating flexing: 20 x cable diameter
  Fixed installed: 6 x outer diameter
- Rated voltage
  U0/U 600/1000 V
- Test voltage
  5000 V (Spark Test)
  3000 V (Dielectric Strength)
- FRLS/Flame Properties
  Oxygen Index as per ASTM D 2863
  Temperature Index as per ASTM D 2863
  Smoke Density Rating as per ASTM D 2843
  HCL Acid Gas Generation as per IEC 754/Pr.1
  Flammability Test as per IEEE-383
  Swedish Chimney Test as per SEN-SS4241475
  Thermal Stability as per IS:10810 Pt. 60
- ZHFR Properties(on sheath)
  Corrosivity of gases evolved during combustion pH & conductivity as per IEC-60754-2
- Range of temperature
  Normal Working Temp.: -20 °C up to +70 °C
  High Working Temp.: -20 °C up to +90 °C/105 °C
  Cold application Temp. upto -55 °C
## RJ 0202 Single Core

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## RJ 0202 Multicore

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