POWER CABLE

Customization
Customized colour option and printing of the outer sheath on request

Unshielded, without inner sheath — 90°C/105°C — RJ0201

Product Description:
Flexible multi core power cables.

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

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:
RoHS ENVIRONMENTALLY FRIENDLY ISO 9001 QUALITY ASSURANCE CE

*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
- **Conductor stranding**
  Fine wire in accordance to VDE 0295 Class 5 / IEC 60228 Class 5
- **Minimum bending radius**
  Oscillating flexing: 15 x cable diameter
  Fixed installation: 4 x cable diameter
- **Rated voltage**
  U0/U: 450/750 V
  Fixed, protected installation: 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/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 °C up to +70 °C
  High Working Temp.: -20 °C up to +90 °C/105 °C
  Cold application Temp upto -55 °C

Part number with protective conductor(G)	Number of cores and mm² per Conductor with protective conductor(G) Green/Yellow	Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx
RJ0201				
0201 01104	4 G 35	32.0	1344	2060
0201 01105	5 G 35	35.6	1680	2577
0201 01204	4 G 50	38.0	1920	2811
0201 01304	4 G 70	42.8	2688	3968
0201 01404	4 G 95	48.0	3648	4957
0201 01504	4 G 120	52.4	4608	6391

POWER CABLE

Customization
Customized colour option and printing of the outer sheath on request

Shielded, with inner sheath — 90°C/105°C — RJ 0202

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.)

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.

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:
RoHS ENVIRONMENTALLY FRIENDLY ISO 9001 QUALITY ASSURANCE CE

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
- **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/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 °C up to +70 °C
  High Working Temp.: -20 °C up to +90 °C/105 °C
  Cold application Temp upto -55 °C

Part number		Number of cores and mm² per conductor		Outer diameter in mm approx.	Copper index kg/km	Weight kg/km approx
without protective conductor(X)	with protective conductor(G)	without protective conductor(X)	with protective conductor(G)			
RJ 0202 Single Core						
0202 11301		1 X 70		20.2	737	948
0202 11401		1 X 95		22.6	1002	1155
0202 11501		1 X 120		25.0	1254	1463
RJ 0202 Multicore						
	0202 00103		3 G 0.5	10.1	36	140
0202 10302		2 X 1.0		10.5	41	149
0202 10402		2 X 1.5		11.5	57	183
	0202 00403		3 G 1.5	12.0	72	212
	0202 00404		4 G 1.5	12.8	90	249
	0202 00405		5 G 1.5	14.0	115	307
	0202 00407		7 G 1.5	14.9	151	401
	0202 00412		12 G 1.5	18.8	238	573
	0202 00418		18 G 1.5	22.3	350	846
	0202 00425		25 G 1.5	26.0	490	1183
	0202 00503		3 G 2.5	13.5	105	276
	0202 00504		4 G 2.5	14.6	147	347
	0202 00505		5 G 2.5	15.7	171	401
	0202 00507		7 G 2.5	16.6	233	547
	0202 00512		12 G 2.5	21.0	378	840
	0202 00604		4 G 4	16.5	212	457
	0202 00605		5 G 4	18.0	250	540
	0202 00704		4 G 6	18.0	288	558
	0202 00705		5 G 6	19.9	367	710
	0202 00804		4 G 10	22.3	474	882
	0202 00805		5 G 10	24.3	582	1069
	0202 00904		4 G 16	24.9	716	1208
	0202 00905		5 G 16	27.6	881	1483
	0202 01004		4 G 25	30.2	1096	1785
	0202 01005		5 G 25	33.4	1371	2206
	0202 01104		4 G 35	33.6	1515	2314
	0202 01105		5 G 35	37.1	1875	2847
	0202 01204		4 G 50	39.3	2140	3264
	0202 01205		5 G 50	43.4	2620	4002