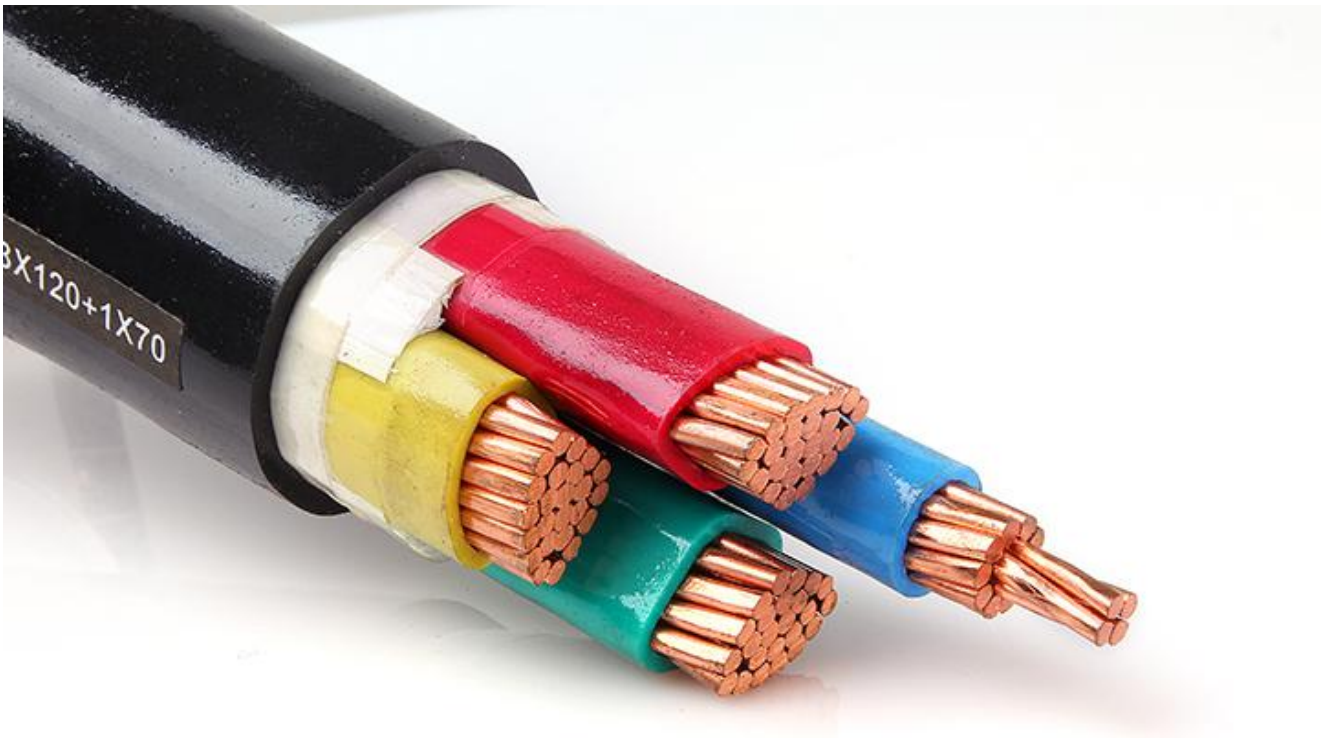
600/1000V PVC insulated Cable

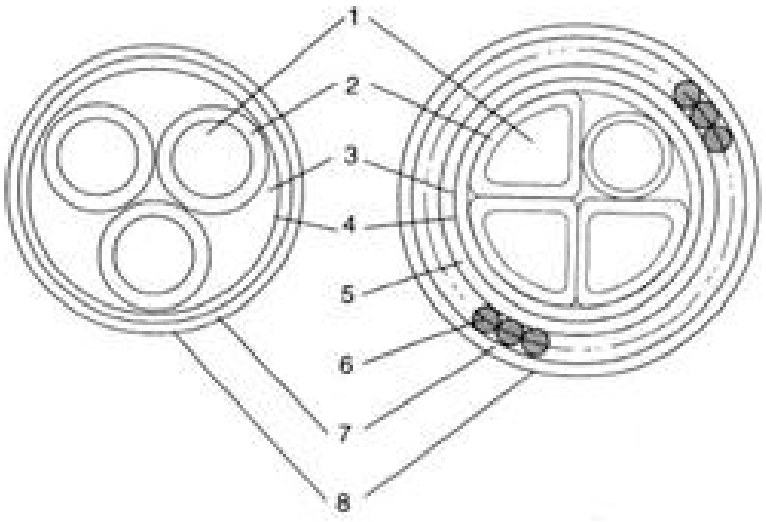


Application:

0.6/1kV PVC Cable, It to be used for indoors, in tunnel, in down wells,cable furrow or pipe, underground.
Note: the single core armored cables are used for D.C. system only. As for A.C. system, armor layer should be used of non-magnetic material or magnetic isolation measures.

Standards: BS 7870-3.10-2001 or IEC 60502 -1

Conductor: Cu or Aluminum Insulation:PVC Sheath: PVC



Sheath Color: Black or Colors

Cable Structure:

1. Conductor: Copper(Cu) or Aluminum
2. PVC insulation
3. Fill layer
4. Around the package tape
5. Inner Sheath
6. Steel tape armor
7. Outer Sheath

Product Description:

- PVC insulated PVC sheathed power cable (PVC/PVC Cable)
- PVC insulated steel tape armored PVC sheathed power cable (PVC/STA/PVC Cable)
- PVC insulated steel wire armored PVC sheathed power cable (PVC/SWA/PVC Cable)

- Flame retardant PVC insulated PVC sheathed power cable (FR/PVC/PVC Cable)
- Flame retardant PVC insulated steel tape armored PVC sheathed power cable (FR/PVC/STA/PVC Cable)
- Flame retardant PVC insulated steel wire armored PVC sheathed power cable (FR/PVC/SWA/PVC Cable)

FR – Flame Retardant

Number of Cores & Nominal Cross-section Area:

Number of Cores	1	2	3	3+1	4	3+2	4+1	5
Section Area (mm^2)	4 - 500	2.5 - 500	2.5 - 300	4 - 300	2.5 - 300	2.5 -300	4 - 300	2.5 - 95

Main Properties:

Test Item			Property
Construction			Listed to the tables
Conductor resistance			Listed to the tables
Test Voltage	A.C 3.5kV 5min		No breaken
Machenical Properties before aging	Tensile Strength	Insulation	Min. 12.5N/mm2
		Sheath	Min. 12.5N/mm2
	Elongation at break	Insulation	Min. 150%
		Sheath	Min. 150%
Machenical properties after aging	Tensile Strength	Insulation	100℃±2℃7days Min. 12.5N/mm2
		Sheath	100℃±2℃7days Min. 12.5N/mm2
	Varying valve of tensile strength	Insulation	100℃±2℃7days Max. 25%
		Sheath	100℃±2℃7days Max. 25%
	Elongation at break	Insulation	100℃±2℃7days Min.150%
		Sheath	100℃±2℃7days Min.150%
	Varying valve of tensile strength	Insulation	100℃±2℃7days Max. 25%
		Sheath	100℃±2℃7days Max. 25%
Flame retardant property			IEC60332 - 3
Constant of insulation resistivity		Min at 20℃	36.7
Ki MΩ.km		Min at 70℃	0.037

Installation:

1. The installation temperature should not over 20℃, If the ambient temperature is lower than 0℃, the cable should be preheated.
2. The bending radius of cable should not less than 8 times.
3. After installation, the cable should with stand voltage test for 15min. 3.5kv D.C.

In air:

1. As the single core cable laying in parallel, the distance between the cable's center is 2 times (for cables which cross section area of conductor ≤185mm2) and
90mm (for cables which cross sectional area of conductor≥240mm2)
2. Ambient temperature: 30℃
3. Max. temperature of conductor: 70℃
4. Rating factors of current rating for ambient temperature:

Air temperature	20℃	25℃	35℃	40℃	45℃
Rating factors	1.12	1.06	0.94	0.87	0.79

Direct in ground:

1. When the single core cables are installed separately, the distance between the cable's center is 2 times of the cable diameter.
2. Ambient temperature: 25℃.
3. Max. temperature of conductor: 70℃.
4. Soil thermour resistivity: 1.0℃. m/w.
5. Depth: 0.7m
6. Rating factors under different ambient temp.:

Air temperature	15℃	20℃	30℃	35℃
Rating factors	1.11	1.05	0.94	0.88

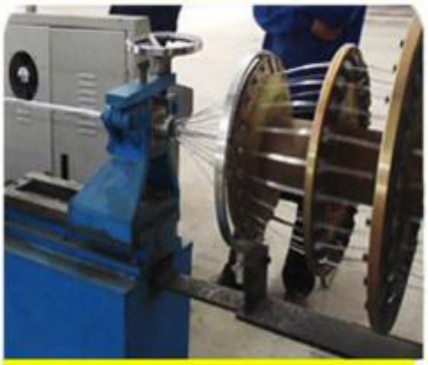
Short circuit ratings:

Max temperature at short circuit	Max temperature short circuit rating
130℃	I=94 S√A

liberative line

Stranded wire frames

Primary Premolding



Second Premolding

Pulling

Cabling