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# POWER CABLE CATALOGUE

**ZHEJIANG SEATRUST POWER CO., LTD**

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# Manufacturing Equipments



Wire drawing machine



Wire stranding machine



Caterpillar haul-off machine



Sheath extruding machine



Wire bunching machine



Automatic coiling machine

# Manufacturing Equipments



Segmental conductor forming machine



Triple layer extruding machine



Large take-up machine



Drum twister laying-up machine



Metal argon arc welding machine



Double drum take-up machine

# Testing Equipments



Dimension measurement tool



Light-electrical analytical balance for weight and density testing



Direct-current resistance bridge for conductor resistance testing



Wire twisting tester for wire twist testing

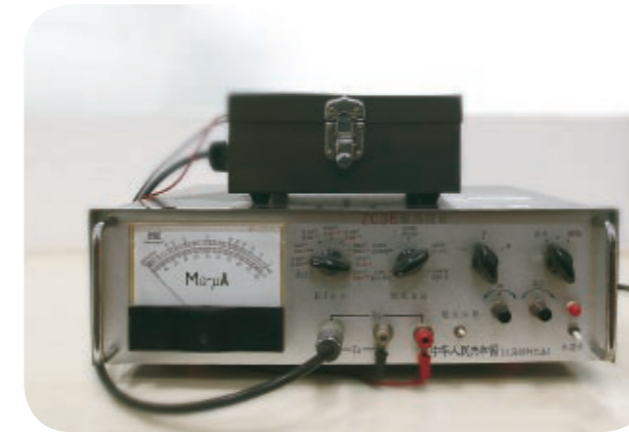


Tensile testing machine for elongation and breaking load



Digital measuring projector for insulation and sheath thickness testing

# Testing Equipments



Megger for insulation resistance testing



Heat aging oven for before aging and after aging mechanical property



High voltage testing platform



Computer control center

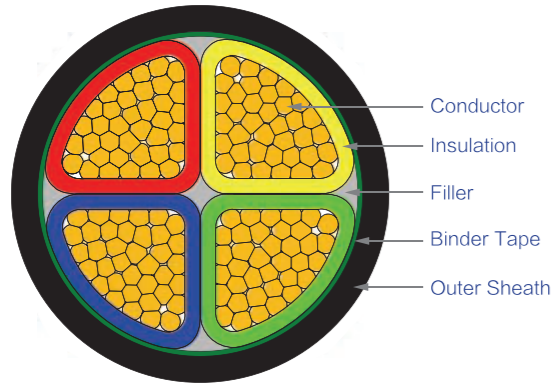


Partial discharge detector for voltage test and partial discharge testing



High voltage testing hall

## PVC Insulated Non-Armoured Power Cable



### Construction

Conductor: Copper (or Aluminium)  
 Insulation: PVC  
 Filler: Non-hygroscopic Polypropylene(PP)  
 Binder Tape: Non-woven fabric  
 Outer Sheath: PVC (or PE)

### Standard

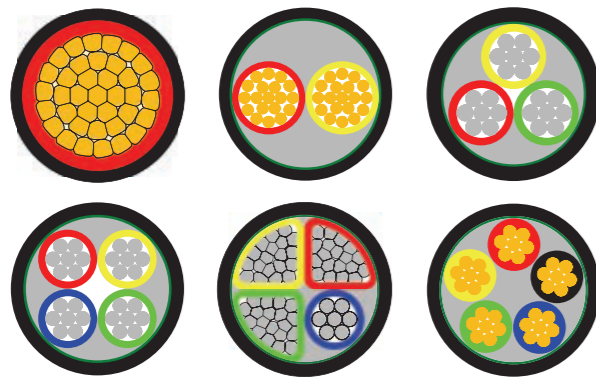
IEC 60502, GB/T 12706

### Application

Used for fixed installations such as electric power distribution networks or industrial installations, which is laid indoors, in tunnel, in cable trench or in conduit, unable to bear external mechanical force.

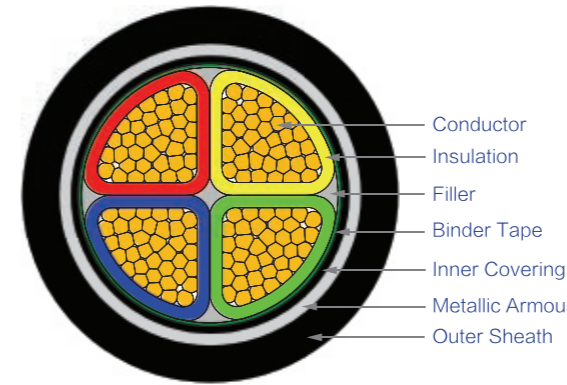
### Operating Characteristics

Rated Voltage: 0.6/1(1.2)kV  
 Max. Operating Temperature of Conductor: 70°C  
 Max. Short-circuit Temperature of Conductor: 160°C  
 Min. Ambient Temperature under Installation: 0°C



Type	Description	Number of cores	Nominal cross section of conductor
VV	CU/PVC/PVC Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
VLV	AL/PVC/PVC Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	2.5~1000mm <sup>2</sup>
VY	CU/PVC/PE Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
VLY	AL/PVC/PE Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	2.5~1000mm <sup>2</sup>
Z-VV	CU/PVC Flame-retardant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
Z-VLV	AL/PVC Flame-retardant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	2.5~1000mm <sup>2</sup>
N-VV	CU/PVC Fire-resistant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>

## PVC Insulated Metallic Tape Armoured Power Cable



### Construction

Conductor: Copper (or Aluminium)  
 Insulation: PVC  
 Filler: Non-hygroscopic Polypropylene(PP)  
 Binder Tape: Non-woven fabric  
 Inner Covering: Polypropylene(PP) Tape or PVC  
 Metallic Armour: Galvanized Steel Tape Armour(STA)  
 Non-magnetic Steel Tape Armour(only for single core)  
 Outer Sheath: PVC (or PE)

### Standard

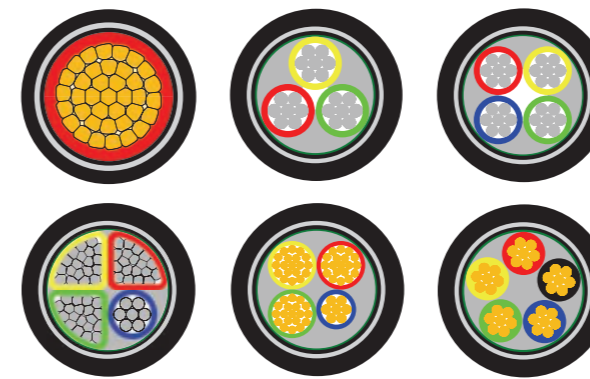
IEC 60502, GB/T 12706

### Application

Used for fixed installations such as electric power distribution networks or industrial installations, which is laid indoors, in tunnel, in cable trench or direct in ground, able to bear external mechanical force, but unable to bear large pulling force.

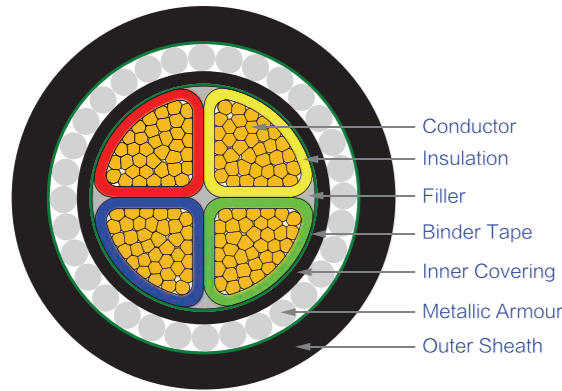
### Operating Characteristics

Rated Voltage: 0.6/1(1.2)kV  
 Max. Operating Temperature of Conductor: 70°C  
 Max. Short-circuit Temperature of Conductor: 160°C  
 Min. Ambient Temperature under Installation: 0°C  
 When the armoured single core cable used for Alternative Current(AC) system, the armour material should be non-magnetic.



Type	Description	Number of cores	Nominal cross section of conductor
VV22	CU/PVC/STA/PVC Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
VLV22	AL/PVC/STA/PVC Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	2.5~1000mm <sup>2</sup>
VV62	CU/PVC/Non-magnetic STA/PVC Power Cable	1	1.5~1000mm <sup>2</sup>
VLV62	AL/PVC/Non-magnetic STA/PVC Power Cable	1	2.5~1000mm <sup>2</sup>
VV23	CU/PVC/STA/PE Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
VLV23	AL/PVC/STA/PE Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	2.5~1000mm <sup>2</sup>
Z-VV22	CU/PVC/STA Flame-retardant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
Z-VLV22	AL/PVC/STA Flame-retardant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	2.5~1000mm <sup>2</sup>
N-VV22	CU/PVC/STA Fire-resistant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>

## PVC Insulated Metallic Wire Armoured Power Cable



### Construction

Conductor: Copper (or Aluminium)  
 Insulation: PVC  
 Filler: Non-hygroscopic Polypropylene  
 Binder Tape: Non-woven fabric  
 Inner Covering: PVC  
 Metallic Armour: Galvanized Steel Wire Armour(SWA)  
 Non-magnetic Steel Wire Armour(only for single core)  
 Aluminium Wire Armoured(AWA, only for single core)  
 Outer Sheath: PVC (or PE)

### Standard

IEC 60502, GB/T 12706

### Application

Used for fixed installations such as electric power distribution networks or industrial installations, which is laid in high fall area, able to bear external mechanical force, and certain pulling force.

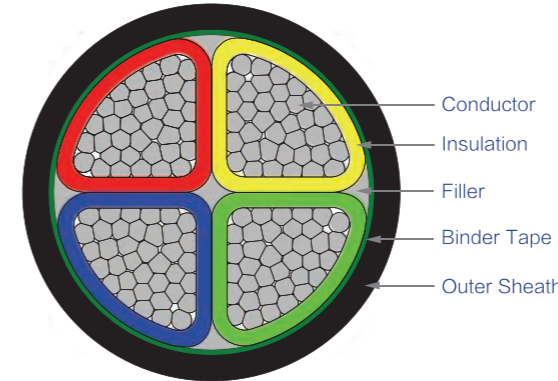
### Operating Characteristics

Rated Voltage: 0.6/1(1.2)kV  
 Max. Operating Temperature of Conductor: 70°C  
 Max. Short-circuit Temperature of Conductor: 160°C  
 Min. Ambient Temperature under Installation: 0°C  
 When the armoured single core cable used for Alternative Current(AC) system, the armour material should be non-magnetic.



Type	Description	Number of cores	Nominal cross section of conductor
VV32	CU/PVC/SWA/PVC Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
VLV32	AL/PVC/SWA/PVC Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	2.5~1000mm <sup>2</sup>
VV72	CU/PVC/Non-magnetic SWA or AWA/PVC Power Cable	1	1.5~1000mm <sup>2</sup>
VLV72	AL/PVC/Non-magnetic SWA or AWA/PVC Power Cable	1	2.5~1000mm <sup>2</sup>
VV33	CU/PVC/SWA/PE Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
VLV33	AL/PVC/SWA/PE Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	2.5~1000mm <sup>2</sup>
Z-VV32	CU/PVC/SWA Flame-retardant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
Z-VLV32	AL/PVC/SWA Flame-retardant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	2.5~1000mm <sup>2</sup>
N-VV32	CU/PVC/SWA Fire-resistant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>

## XLPE Insulated Non-armoured Power Cable



### Construction

Conductor: Copper (or Aluminium)  
 Insulation: XLPE  
 Filler: Non-hygroscopic Polypropylene(PP)  
 Binder Tape: Non-woven fabric  
 Outer Sheath: PVC (or PE)

### Standard

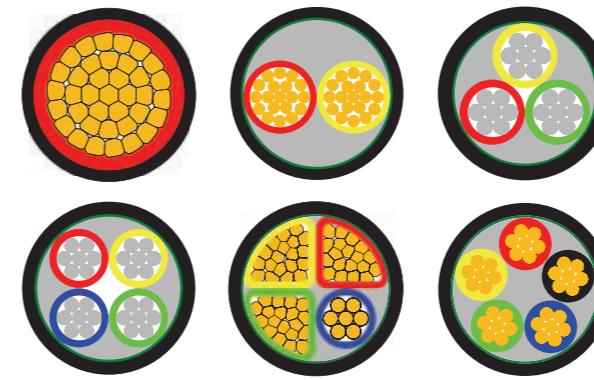
IEC 60502, GB/T 12706

### Application

Used for fixed installations such as electric power distribution networks or industrial installations, which is laid indoors, in tunnel, in cable trench or in conduit, unable to bear external mechanical force.

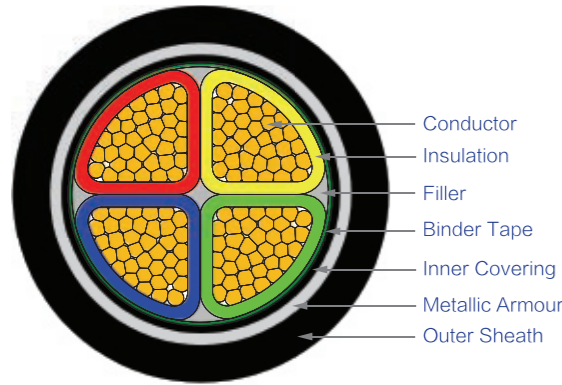
### Operating Characteristics

Rated Voltage: 0.6/1(1.2)kV  
 Max. Operating Temperature of Conductor: 90°C  
 Max. Short-circuit Temperature of Conductor: 250°C  
 Min. Ambient Temperature under Installation: 0°C



Type	Description	Number of cores	Nominal cross section of conductor
YJV	CU/XLPE/PVC Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
YJLV	AL/XLPE/PVC Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	2.5~1000mm <sup>2</sup>
YJY	CU/XLPE/PE Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
YJLY	AL/XLPE/PE Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	2.5~1000mm <sup>2</sup>
Z-YJV	CU/XLPE Flame-retardant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
Z-YJLV	AL/XLPE Flame-retardant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	2.5~1000mm <sup>2</sup>
WDZ-YJY	CU/XLPE Low Smoke Halogen Free or Zero Halogen (LSHF or LSZH) Flame-retardant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
N-YJV	CU/XLPE Fire-resistant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>

## XLPE Insulated Metallic Tape Armoured Power Cable



### Construction

Conductor: Copper (or Aluminium)  
 Insulation: XLPE  
 Filler: Non-hygroscopic Polypropylene(PP)  
 Binder Tape: Non-woven fabric  
 Inner Covering: Polypropylene(PP) Tape or PVC  
 Metallic Armour: Galvanized Steel Tape Armour(STA)  
 Non-magnetic Steel Tape Armour(only for single core)  
 Outer Sheath: PVC (or PE)

### Standard

IEC 60502, GB/T 12706

### Application

Used for fixed installations such as electric power distribution networks or industrial installations, which is laid indoors, in tunnel, in cable trench or direct in ground, able to bear external mechanical force, but unable to bear large pulling force.

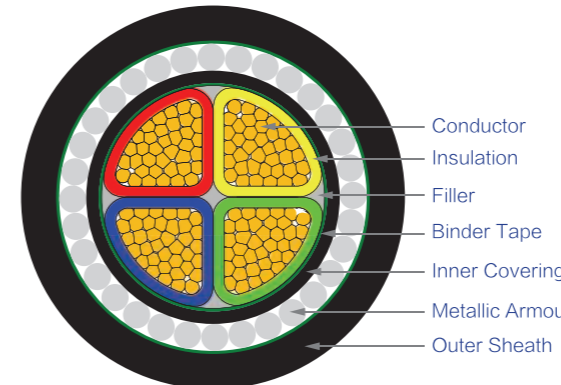
### Operating Characteristics

Rated Voltage: 0.6/1(1.2)kV  
 Max. Operating Temperature of Conductor: 90°C  
 Max. Short-circuit Temperature of Conductor: 250°C  
 Min. Ambient Temperature under Installation: 0°C  
 When the armoured single core cable used for Alternative Current(AC) system, the armour material should be non-magnetic.



Type	Description	Number of cores	Nominal cross section of conductor
YJV22	CU/XLPE/STA/PVC Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
YJLV22	AL/XLPE/STA/PVC Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	2.5~1000mm <sup>2</sup>
YJV62	CU/XLPE/Non-magnetic STA/PVC Power Cable	1	1.5~1000mm <sup>2</sup>
YJLV62	AL/XLPE/Non-magnetic STA/PVC Power Cable	1	2.5~1000mm <sup>2</sup>
YJV23	CU/XLPE/STA/PE Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
YJLV23	AL/XLPE/STA/PE Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	2.5~1000mm <sup>2</sup>
Z-YJV22	CU/XLPE/STA Flame-retardant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
Z-YJLV22	AL/XLPE/STA Flame-retardant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	2.5~1000mm <sup>2</sup>
WDZ-YJY23	CU/XLPE/STA Low Smoke Halogen Free or Zero Halogen (LSHF or LSZH) Flame-retardant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
N-YJV22	CU/XLPE/STA Fire-resistant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>

## XLPE Insulated Metallic Wire Armoured Power Cable



### Construction

Conductor: Copper (or Aluminium)  
 Insulation: XLPE  
 Filler: Non-hygroscopic Polypropylene(PP)  
 Binder Tape: Non-woven fabric  
 Inner Covering: PVC  
 Metallic Armour: Galvanized Steel Wire Armour(SWA)  
 Non-magnetic Steel Wire Armour(only for single core)  
 Aluminium Wire Armoured(AWA, only for single core)  
 Outer Sheath: PVC (or PE)

### Standard

IEC 60502, GB/T 12706

### Application

Used for fixed installations such as electric power distribution networks or industrial installations, which is laid in high fall area, able to bear external mechanical force, and certain pulling force.

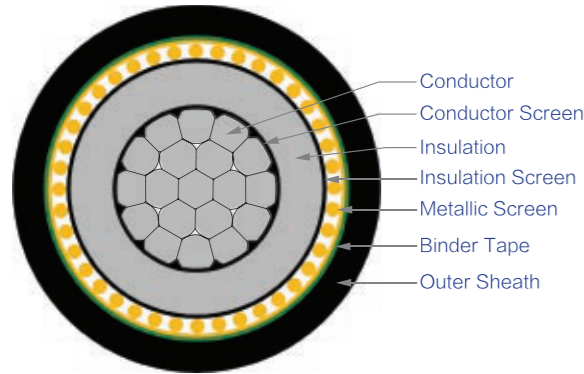
### Operating Characteristics

Rated Voltage: 0.6/1(1.2)kV  
 Max. Operating Temperature of Conductor: 90°C  
 Max. Short-circuit Temperature of Conductor: 250°C  
 Min. Ambient Temperature under Installation: 0°C  
 When the armoured single core cable used for Alternative Current(AC) system, the armour material should be non-magnetic.



Type	Description	Number of cores	Nominal cross section of conductor
YJV32	CU/XLPE/SWA/PVC Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
YJLV32	AL/XLPE/SWA/PVC Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	2.5~1000mm <sup>2</sup>
YJV72	CU/XLPE/Non-magnetic SWA or AWA/PVC Power Cable	1	1.5~1000mm <sup>2</sup>
YJLV72	AL/XLPE/Non-magnetic SWA or AWA/PVC Power Cable	1	2.5~1000mm <sup>2</sup>
YJV33	CU/XLPE/SWA/PE Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
YJLV33	AL/XLPE/SWA/PE Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	2.5~1000mm <sup>2</sup>
Z-YJV32	CU/XLPE/SWA Flame-retardant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
Z-YJLV32	AL/XLPE/SWA Flame-retardant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	2.5~1000mm <sup>2</sup>
WDZ-YJY33	CU/XLPE/SWA Low Smoke Halogen Free or Zero Halogen (LSHF or LSZH) Flame-retardant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>
N-YJV32	CU/XLPE/SWA Fire-resistant Power Cable	1, 2, 3, 4, 3+1, 5, 4+1, 3+2	1.5~1000mm <sup>2</sup>

## XLPE Insulated Non-armoured Power Cable



### Construction

Conductor: Copper (or Aluminium)  
 Conductor Screen: Semi-conducting Compound  
 Insulation: XLPE  
 Insulation Screen: Semi-conducting Compound  
 Metallic Screen: Copper Tape  
 (or Copper Wire and Tape)  
 Filler: Non-hygroscopic Polypropylene(PP)  
 Binder Tape: Non-woven Fabric (or CPP Tape)  
 Outer Sheath: PVC (or PE)

### Standard

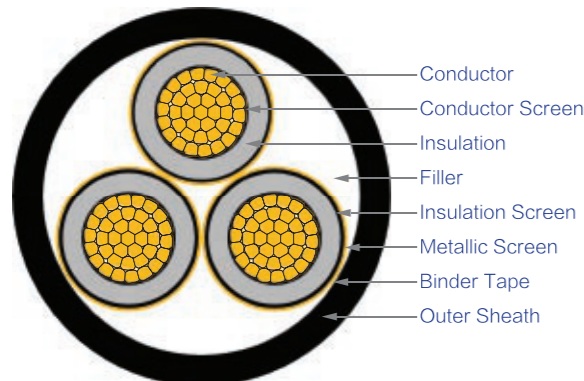
IEC 60502, GB/T 12706

### Application

Used for fixed installations such as electric power distribution networks or industrial installations, which is laid indoors, in tunnel, or in cable trench, unable to bear external mechanical force.

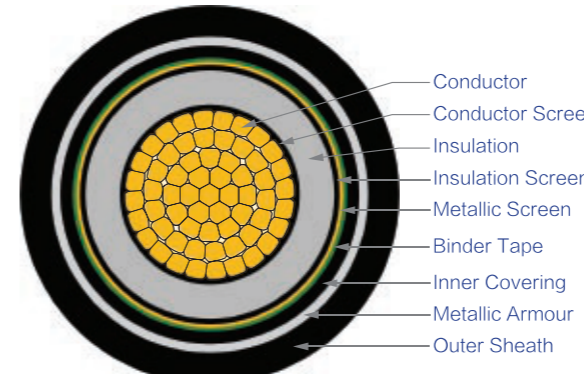
### Operating Characteristics

Rated Voltage: 3.6/6(7.2)kV, 6/10(12)kV, 6.35/11(12)kV, 8.7/15(17.5)kV, 12/20(24)kV, 12.7/22(24)kV, 18/30(36)kV, 19/33(36)kV, 26/35(40.5)kV  
 Max. Operating Temperature of Conductor: 90°C  
 Max. Short-circuit Temperature of Conductor: 250°C  
 Min. Ambient Temperature under Installation: 0°C



Type	Description	Number of cores	Nominal cross section of conductor (mm <sup>2</sup> )				
			3.6/6kV	6/10kV 6.35/11kV	8.7/15kV	12/20kV 12.7/22kV	18/30kV 19/33kV 26/35kV
YJV	CU/XLPE/PVC	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
YJLV	AL/XLPE/PVC	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
YJSV	CU/XLPE/CWS/PVC	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
YJLSV	AL/XLPE/CWS/PVC	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
YJY	CU/XLPE/PE	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
YJLY	AL/XLPE/PE	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
Z-YJV	CU/XLPE Flame-retardant	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
Z-YJLV	AL/XLPE Flame-retardant	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
WDZ-YJY	CU/XLPE/LSHF(or LSZH) Flame-retardant	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000

## XLPE Insulated Metallic Tape Armoured Power Cable



### Construction

Conductor: Copper (or Aluminium)  
 Conductor Screen: Semi-conducting Compound  
 Insulation: XLPE  
 Insulation Screen: Semi-conducting Compound  
 Metallic Screen: Copper Tape (or Copper Wire and Tape)  
 Filler: Non-hygroscopic Polypropylene(PP)  
 Binder Tape: Non-woven Fabric (or CPP Tape)  
 Inner Covering: PVC  
 Metallic Armour: Galvanized Steel Tape Armour(STA)  
 Non-magnetic Steel Tape Armour(only for single core)  
 Outer Sheath: PVC (or PE)

### Standard

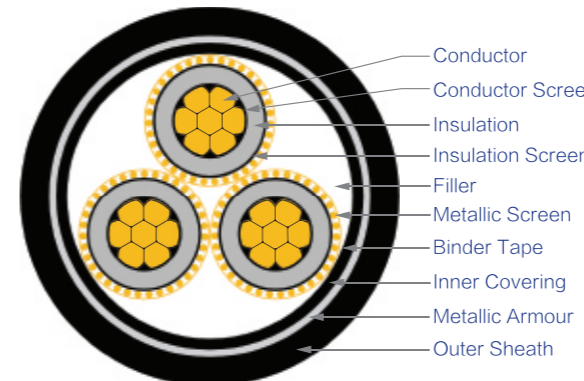
IEC 60502, GB/T 12706

### Application

Used for fixed installations such as electric power distribution networks or industrial installations, which is laid indoors, in tunnel, in cable trench or direct in ground, able to bear external mechanical force, but unable to bear large pulling force.

### Operating Characteristics

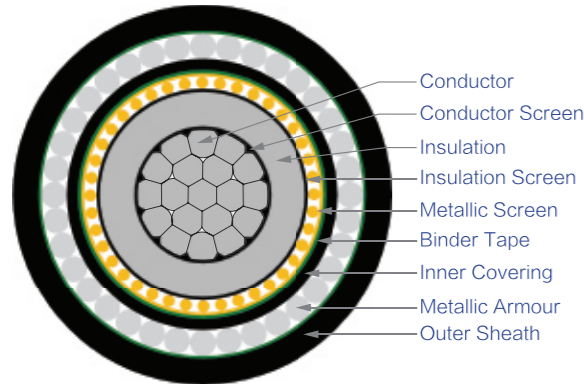
Rated Voltage: 3.6/6(7.2)kV, 6/10(12)kV, 6.35/11(12)kV, 8.7/15(17.5)kV, 12/20(24)kV, 12.7/22(24)kV, 18/30(36)kV, 19/33(36)kV, 26/35(40.5)kV  
 Max. Operating Temperature of Conductor: 90°C  
 Max. Short-circuit Temperature of Conductor: 250°C  
 Min. Ambient Temperature under Installation: 0°C  
 When the armoured single core cable used for Alternative Current(AC) system, the armour material should be non-magnetic.



Type	Description	Number of cores	Nominal cross section of conductor (mm <sup>2</sup> )				
			3.6/6kV	6/10kV 6.35/11kV	8.7/15kV	12/20kV 12.7/22kV	18/30kV 19/33kV 26/35kV
YJV22	CU/XLPE/STA/PVC	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
YJLV22	AL/XLPE/STA/PVC	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
YJSV22	CU/XLPE/CWS/STA/PVC	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
YJLSV22	AL/XLPE/CWS/STA/PVC	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
YJV62	CU/XLPE/Non-magnetic STA/PVC	1	10~1000	16~1000	25~1000	35~1000	50~1000
YJLV62	AL/XLPE/Non-magnetic STA/PVC	1	10~1000	16~1000	25~1000	35~1000	50~1000
YJV23	CU/XLPE/STA/PE	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
YJLV23	AL/XLPE/STA/PE	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
Z-YJV22	CU/XLPE/STA Flame-retardant	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
Z-YJLV22	AL/XLPE/STA Flame-retardant	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
WDZ-YJV23	CU/XLPE/STA/LSHF(or LSZH) Flame-retardant	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000



## XLPE Insulated Metallic Wire Armoured Power Cable



### Construction

Conductor: Copper (or Aluminium)  
 Conductor Screen: Semi-conducting Compound  
 Insulation: XLPE  
 Insulation Screen: Semi-conducting Compound  
 Metallic Screen: Copper Tape (or Copper Wire and Tape)  
 Filler: Non-hygroscopic Polypropylene(PP)  
 Binder Tape: Non-woven Fabric( or CPP Tape)  
 Inner Covering: PVC  
 Metallic Armour: Galvanized Steel Wire Armour(SWA)  
 Non-magnetic Steel Wire Armour(only for single core)  
 Aluminium Wire Armoured(AWA, only for single core)  
 Outer Sheath: PVC (or PE)

### Standard

IEC 60502, GB/T 12706

### Application

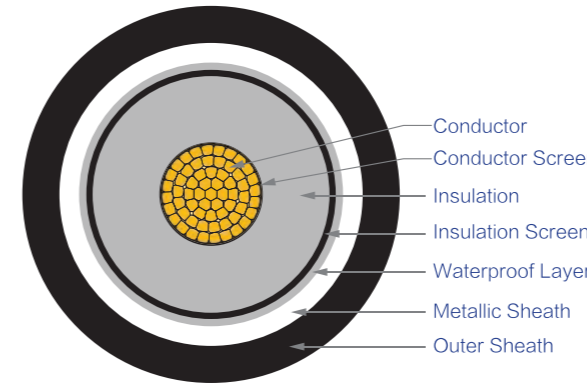
Used for fixed installations such as electric power distribution networks or industrial installations, which is laid in high fall area, able to bear external mechanical force, and certain pulling force.

### Operating Characteristics

Rated Voltage: 3.6/6(7.2)kV, 6/10(12)kV, 6.35/11(12)kV, 8.7/15(17.5)kV, 12/20(24)kV, 12.7/22(24)kV, 18/30(36)kV, 19/33(36)kV, 26/35(40.5)kV  
 Max. Operating Temperature of Conductor: 90°C  
 Max. Short-circuit Temperature of Conductor: 250°C  
 Min. Ambient Temperature under Installation: 0°C  
 When the armoured single core cable used for Alternative Current(AC) system, the armour material should be non-magnetic.

Type	Description	Number of cores	Nominal cross section of conductor (mm <sup>2</sup> )				
			3.6/6kV	6/10kV 6.35/11kV	8.7/15kV	12/20kV 12.7/22kV	18/30kV 19/33kV 26/35kV
YJV32	CU/XLPE/SWA/PVC	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
YJLV32	AL/XLPE/SWA/PVC	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
YJSV32	CU/XLPE/CWS/SWA/PVC	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
YJLSV32	AL/XLPE/CWS/SWA/PVC	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
YJV72	CU/XLPE/Non-magnetic SWA or AWA/PVC	1	10~1000	16~1000	25~1000	35~1000	50~1000
YJLV72	AL/XLPE/Non-magnetic SWA or AWA/PVC	1	10~1000	16~1000	25~1000	35~1000	50~1000
YJV33	CU/XLPE/SWA/PE	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
YJLV33	AL/XLPE/SWA/PE	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
Z-YJV32	CU/XLPE/SWA Flame-retardant	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
Z-YJLV32	AL/XLPE/SWA Flame-retardant	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000
WDZ-YJV33	CU/XLPE/SWA/LSHF(or LSZH) Flame-retardant	1, 3	10~1000	16~1000	25~1000	35~1000	50~1000

## XLPE Insulated Corrugated Aluminium Sheathed Power Cable



### Construction

Conductor: Copper (or Aluminium)  
 Conductor Screen: Semi-conducting Compound  
 Insulation: XLPE  
 Insulation Screen: Semi-conducting Compound  
 Waterproof Layer: Semi-conducting Waterproof Tape  
 Metallic Sheath: Corrugated Aluminium  
 Outer Sheath: PE (or PVC)

### Standard

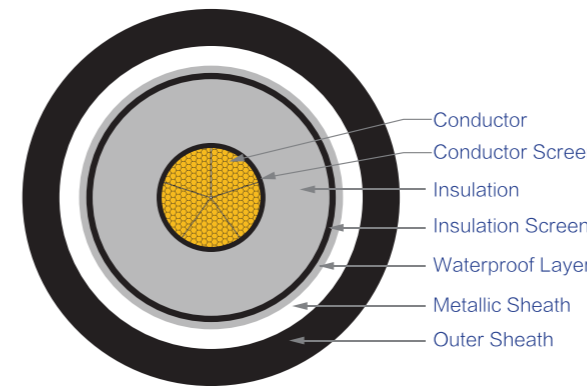
IEC 60840, IEC 62067, GB/T 11017, GB/Z 18890

### Application

Laid indoors, outdoors, in tunnel, in cable trench, or direct in ground, able to bear external mechanical force and certain pulling force.

### Operating Characteristics

Rated Voltage: 38/66(72.5)kV, 64/110(123)kV, 76/132(145)kV, 127/220(245)kV  
 Max. Operating Temperature of Conductor: 90°C  
 Max. Short-circuit Temperature of Conductor: 250°C  
 Min. Ambient Temperature under Installation: 0°C



Type	Description	Number of cores	Nominal cross section of conductor (mm <sup>2</sup> )		
			38/66kV	64/110kV 76/132kV	127/220kV
YJLW02	CU/XLPE/Corrugated Aluminium/PVC	1	150~2500	240~2500	400~2500
YJLLW02	AL/XLPE/Corrugated Aluminium/PVC	1	150~2500	240~2500	400~2500
YJLW03	CU/XLPE/Corrugated Aluminium/PE	1	150~2500	240~2500	400~2500
YJLLW03	AL/XLPE/Corrugated Aluminium/PE	1	150~2500	240~2500	400~2500
YJLW02-Z	CU/XLPE/Corrugated Aluminium/PVC Longitudinal Waterproof	1	150~2500	240~2500	400~2500
YJLLW02-Z	AL/XLPE/Corrugated Aluminium/PVC Longitudinal Waterproof	1	150~2500	240~2500	400~2500
YJLW03-Z	CU/XLPE/Corrugated Aluminium/PE Longitudinal Waterproof	1	150~2500	240~2500	400~2500
YJLLW03-Z	AL/XLPE/Corrugated Aluminium/PE Longitudinal Waterproof	1	150~2500	240~2500	400~2500

## AAC (All Aluminium Conductors) ASC (Aluminium Stranded Conductors)



### Construction

Bare concentric-lay-stranded aluminium wires constructed with a straight round central aluminium wire surrounded by one or more layers of helically laid aluminium wires.

### Application

Used in overhead electric power transmission and distribution lines for various voltages.

### Standard

GB/T 1179, IEC 61089, EN 50182, BS 215-1, DIN 48201, ASTM B231

### Technical Characteristics Based on Standard GB/T 1179 (IEC 61089)

Nominal area	Number of wires	Wire diameter	Conductor diameter	Calculated area	Linear mass	Calculated breaking load	D.C. resistance at 20°C, max
mm <sup>2</sup>	No.	mm	mm	mm <sup>2</sup>	kg/km	N	Ω/km
16	7	1.70	5.10	15.89	43.5	2840	1.802
25	7	2.15	6.45	25.41	69.6	4355	1.127
35	7	2.50	7.50	34.36	94.1	5760	0.8332
50	7	3.00	9.00	49.48	135.5	7930	0.5786
70	7	3.60	10.80	71.25	195.1	10950	0.4018
95	7	4.16	12.48	95.14	260.5	14450	0.3009
120	19	2.85	14.25	121.21	333.5	19420	0.2373
150	19	3.15	15.75	148.07	407.4	23310	0.1943
185	19	3.50	17.50	182.80	503.0	28440	0.1574
210	19	3.75	18.75	209.85	577.4	32260	0.1371
240	19	4.00	20.00	238.76	656.9	36260	0.1205
300	37	3.20	22.40	297.57	820.4	46850	0.09689
400	37	3.70	25.90	397.83	1097	61150	0.07247
500	37	4.16	29.12	502.90	1387	76370	0.05733
630	61	3.63	32.67	631.30	1744	91940	0.04577
800	61	4.10	36.90	805.36	2225	115900	0.03588

## AAC (All Aluminium Conductors) ASC (Aluminium Stranded Conductors)

### Technical Characteristics Based on Standard BS 215-1

Code number	Nominal aluminium area	Stranding and wire diameter	Sectional area	Approx. overall diameter	Approx. mass	Calculated D.C. resistance at 20°C	Calculated breaking load
	mm <sup>2</sup>	No./mm	mm <sup>2</sup>	mm	kg/km	Ω/km	kN
MIDGE	22	7/2.06	23.33	6.18	64	1.2270	3.99
ANT	50	7/3.10	52.83	9.30	145	0.5419	8.28
FLY	60	7/3.40	63.55	10.20	174	0.4505	9.90
WASP	100	7/4.39	106.0	13.17	290	0.2702	16.00
HORNET	150	19/3.25	157.6	16.25	434	0.1825	25.70
CHAFER	200	19/3.78	213.2	18.90	587	0.1349	32.40
COCKROACH	250	19/4.22	265.7	21.10	731	0.1083	40.40
BUTTERFLY	300	19/4.65	322.7	23.25	888	0.08916	48.75
CENTIPEDE	400	37/3.78	415.2	26.46	1145	0.06944	63.10

### Technical Characteristics Based on Standard BS EN50182

Code	Old code	Area	Number of wires	Wire diameter	Conductor diameter	Linear mass	Rated strength	D.C. resistance at 20°C
		mm <sup>2</sup>	No.	mm	mm	kg/km	kN	Ω/km
23-AL1	MIDGE	23.3	7	2.06	6.18	63.8	4.20	1.2249
27-AL1	GNAT	26.9	7	2.21	6.63	73.4	4.83	1.0643
37-AL1	MOSQUITO	36.9	7	2.59	7.77	100.8	6.27	0.7749
43-AL1	LADYBIRD	42.8	7	2.79	8.37	117.0	7.28	0.6678
53-AL1	ANT	52.8	7	3.10	9.30	144.4	8.72	0.5409
64-AL1	FLY	63.6	7	3.40	10.2	173.7	10.49	0.4497
74-AL1	BLUEBOTTLE	73.6	7	3.66	11.0	201.3	11.78	0.3880
79-AL1	EARWIG	78.6	7	3.78	11.3	214.7	12.57	0.3638
84-AL1	GRASSHOPPER	84.1	7	3.91	11.7	229.7	13.45	0.3400
96-AL1	CLEGG	95.6	7	4.17	12.5	261.3	15.30	0.2989
106-AL1	WASP	106.0	7	4.39	13.2	289.6	16.95	0.2697
106-AL1	BEETLE	106.4	19	2.67	13.4	292.4	18.08	0.2701
132-AL1	BEE	132.0	7	4.90	14.7	360.8	21.12	0.2165
158-AL1	HORNET	157.6	19	3.25	16.3	433.2	26.01	0.1823
186-AL1	CATERPILLAR	185.9	19	3.53	17.7	511.1	29.75	0.1546
213-AL1	CHAFER	213.2	19	3.78	18.9	586.0	34.12	0.1348
238-AL1	SPIDER	237.6	19	3.99	20.0	652.9	38.01	0.1210
266-AL1	COCKROACH	265.7	19	4.22	21.1	730.4	42.52	0.1081
323-AL1	BUTTERFLY	322.7	19	4.65	23.3	886.8	51.63	0.0891
373-AL1	MOTH	373.1	19	5.00	25.0	1025.3	59.69	0.0770
372-AL1	DRONE	372.4	37	3.58	25.1	1027.1	59.59	0.0774
415-AL1	CENTIPEDE	415.2	37	3.78	26.5	1145.1	66.43	0.0695
486-AL1	MAYBUG	486.1	37	4.09	28.6	1340.6	77.78	0.0593
530-AL1	SCORPION	529.8	37	4.27	29.9	1461.2	84.77	0.0544
628-AL1	CICIADA	628.3	37	4.65	32.6	1732.9	100.54	0.0459

**AAC (All Aluminium Conductors)  
ASC (Aluminium Stranded Conductors)**

Technical Characteristics Based on Standard DIN 48201 / DIN EN50182

Code number	Area	Number of wires	Wire diameter	Conductor diameter	Linear mass	Rated strength	D.C. resistance at 20°C
	mm <sup>2</sup>	No.	mm	mm	kg/km	kN	Ω/km
16	15.9	7	1.70	5.10	43.4	3.02	1.7986
25	24.2	7	2.10	6.30	66.3	4.36	1.1787
35	34.4	7	2.50	7.50	93.9	6.01	0.8317
50	49.5	7	3.00	9.00	135.2	8.41	0.5776
50	48.3	19	1.80	9.00	132.9	8.94	0.5944
70	65.8	19	2.10	10.5	180.9	11.85	0.4367
95	93.3	19	2.50	12.5	256.3	16.32	0.3081
120	117.0	19	2.80	14.0	321.5	19.89	0.2456
150	147.1	37	2.25	15.8	405.7	26.48	0.1960
185	181.6	37	2.50	17.5	500.9	31.78	0.1588
240	242.5	61	2.25	20.3	671.1	43.66	0.1193
300	299.4	61	2.50	22.5	828.5	52.40	0.0966
400	400.1	61	2.89	26.0	1107.1	68.02	0.0723
500	499.8	61	3.23	29.1	1382.9	82.47	0.0579
625	626.2	91	2.96	32.6	1739.7	106.45	0.0464
800	802.1	91	3.35	36.9	2228.3	132.34	0.0362
1000	999.7	91	3.74	41.1	2777.3	159.95	0.0291



**AAC (All Aluminum Conductors)  
ASC (Aluminum Stranded Conductors)**

Technical Characteristics Based on Standard ASTM B231

Code Words	Size	Area	Number of wires	Wire diameter	Conductor diameter	Linear mass	Rated strength	Calculated D.C. resistance at 20°C
	AWG or kcmil	mm <sup>2</sup>	No.	mm	mm	kg/km	kN	Ω/km
Rose	4	21.1	7	1.96	5.88	58.2	3.91	1.3559
Iris	2	33.6	7	2.47	7.41	92.6	5.99	0.8538
Pansy	1	42.4	7	2.78	8.34	116.6	7.30	0.6740
Poppy	1/0	53.5	7	3.12	9.36	147.2	8.84	0.5351
Aster	2/0	67.4	7	3.50	10.50	185.7	11.1	0.4252
Phlox	3/0	85.0	7	3.93	11.79	233.9	13.5	0.3373
Oxlip	4/0	107.2	7	4.42	13.26	295.2	17.0	0.2667
Valerian	250.0	126.7	19	2.91	14.55	348.6	20.7	0.2277
Sneezewort	250.0	126.7	7	4.80	14.40	348.8	20.1	0.2261
Laurel	266.8	135.2	19	3.01	15.05	372.2	22.1	0.2129
Daisy	266.8	135.2	7	4.96	14.88	372.3	21.4	0.2118
Peony	300.0	152.0	19	3.19	15.95	418.3	24.3	0.1895
Tulip	336.4	170.5	19	3.38	16.90	469.5	27.3	0.1688
Daffodil	350.0	177.3	19	3.45	17.25	487.9	28.4	0.1620
Canna	397.5	201.4	19	3.67	18.35	554.9	31.6	0.1432
Goldentuft	450.0	228.0	19	3.91	19.55	627.6	35.0	0.1262
Syringa	477.0	241.7	37	2.88	20.16	664.8	38.6	0.1197
Cosmos	477.0	241.7	19	4.02	20.10	664.8	37.0	0.1194
Hyacinth	500.0	253.3	37	2.95	20.65	696.8	40.5	0.1141
Zinnia	500.0	253.3	19	4.12	20.60	697.1	38.9	0.1136
Mistletoe	556.5	282.0	37	3.12	21.84	775.7	44.3	0.1020
Dahlia	556.5	282.0	19	4.35	21.75	775.8	43.3	0.1019
Meadowsweet	600.0	304.0	37	3.23	22.61	836.3	47.5	0.0952
Orchid	636.0	322.3	37	3.33	23.31	886.9	50.4	0.0895
Heuchera	650.0	329.4	37	3.37	23.59	907.4	51.7	0.0874
Flag	700.0	354.7	61	2.72	24.48	975.8	57.1	0.0815
Verbena	700.0	354.7	37	3.49	24.43	975.7	55.4	0.0815
Nasturtium	715.5	362.6	61	2.75	24.75	998.5	58.4	0.0798
Violet	715.5	362.6	37	3.53	24.71	998.5	56.7	0.0797
Cattail	750.0	380.0	61	2.82	25.38	1046	60.3	0.0759
Petunia	750.0	380.0	37	3.62	25.34	1046	58.6	0.0758
Lilac	795.0	402.8	61	2.90	26.10	1110	63.8	0.0717
Arbutus	795.0	402.8	37	3.72	26.04	1109	61.8	0.0718
Snapdragon	900.0	456.0	61	3.09	27.81	1256	70.8	0.0632
Cockscomb	900.0	456.0	37	3.96	27.72	1256	68.4	0.0633
Goldenrod	954.0	483.4	61	3.18	28.62	1331	75.0	0.0597
Magnolia	954.0	483.4	37	4.08	28.56	1331	72.6	0.0597
Camellia	1000.0	506.7	61	3.25	29.25	1394	78.3	0.0571
Hawkweed	1000.0	506.7	37	4.18	29.26	1395	76.2	0.0568
Larkspur	1033.5	523.7	61	3.31	29.79	1442	81.3	0.0551
Bluebell	1033.5	523.7	37	4.25	29.75	1441	78.8	0.0550
Marigold	1113.0	564.0	61	3.43	30.87	1553	87.3	0.0513
Hawthorn	1192.5	604.2	61	3.55	31.95	1662	93.5	0.0479
Narcissus	1272.0	644.5	61	3.67	33.03	1774	98.1	0.0448
Columbine	1351.0	694.8	61	3.78	34.02	1884	104	0.0422
Camation	1431.0	725.1	61	3.89	35.01	1997	108	0.0399
Gladiolus	1510.5	765.4	61	4.00	36.00	2108	114	0.0377
Coreopsis	1590.0	805.7	61	4.10	36.90	2216	120	0.0359
Jessamine	1750.0	886.7	61	4.30	38.70	2442	132	0.0327
Cowslip	2000.0	1013	91	3.77	41.47	2787	153	0.0285
Sagebrush	2250.0	1140	91	3.99	43.89	3166	167	0.0255
Lupine	2500.0	1267	91	4.21	46.31	3519	186	0.0229
Bitterroot	2750.0	1393	91	4.42	48.62	3872	205	0.0208

## AAAC (All Aluminium Alloy Conductors) AASC (Aluminium Alloy Stranded Conductors)



### Construction

Bare concentric-lay-stranded aluminium alloy wires constructed with a straight round central aluminium alloy wire surrounded by one or more layers of helically laid aluminium alloy wires.

### Application

Used in overhead electric power transmission and distribution lines for various voltages.

### Standard

GB/T 1179, IEC 61089, EN 50182, BS 3242, DIN 48201, NF C 34-125

Technical Characteristics Based on Standard GB/T 1179 (IEC 61089)

Nominal area	Number of wires	Wire diameter	Conductor diameter	Calculated area	Linear mass	Rated strength		D.C. resistance at 20°C, max	
						LHA1	LHA2	LHA1	LHA2
mm <sup>2</sup>	No.	mm	mm	mm <sup>2</sup>	kg/km	kN	kN	Ω/km	Ω/km
10	7	1.35	4.05	10.02	27.4	3.26	2.96	3.3205	3.2891
16	7	1.71	5.13	16.08	44.0	5.22	4.74	2.0695	2.0500
25	7	2.13	6.39	24.94	68.2	8.11	7.36	1.3339	1.3213
35	7	2.52	7.56	34.91	95.5	11.35	10.30	0.9529	0.9439
50	7	3.02	9.06	50.14	137.2	16.30	14.79	0.6635	0.6573
70	7	3.57	10.7	70.07	191.7	22.07	20.67	0.4748	0.4703
95	7	4.16	12.5	95.14	261.5	29.97	28.07	0.3514	0.3481
120	19	2.84	14.2	120.36	330.8	39.12	35.51	0.2778	0.2751
150	19	3.17	15.9	149.96	412.2	48.74	44.24	0.2229	0.2208
210	19	3.75	18.8	209.85	576.8	66.10	61.91	0.1593	0.1578
240	19	4.01	20.1	239.96	661.1	75.59	70.79	0.1397	0.1383
300	37	3.21	22.5	299.43	825.0	97.32	88.33	0.1119	0.1109
400	37	3.71	26.0	399.98	1102.0	125.99	117.99	0.0838	0.0830
500	37	4.15	29.1	500.48	1380.9	157.65	147.64	0.0671	0.0664
630	61	3.63	32.7	631.30	1741.8	198.86	186.23	0.0532	0.0527
800	61	4.09	36.8	801.43	2211.3	252.45	236.42	0.0419	0.0415
1000	61	4.57	41.1	1000.58	2760.7	315.18	295.17	0.0335	0.0332

## AAAC (All Aluminium Alloy Conductors) AASC (Aluminium Alloy Stranded Conductors)

Technical Characteristics Based on Standard BS 3242

Code number	Nominal aluminium area	Stranding and wire diameter	Sectional area	Approx. overall diameter	Approx. mass	Calculated D.C. resistance at 20°C	Calculated breaking load
	mm <sup>2</sup>	No./mm	mm <sup>2</sup>	mm	kg/km	Ω/km	kN
ALMOND	25	7/2.34	30.10	7.02	82	1.094	8.44
CEDAR	30	7/2.54	35.47	7.62	97	0.9281	9.94
FIR	40	7/2.95	47.84	8.85	131	0.6880	13.40
HAZEL	50	7/3.30	59.87	9.90	164	0.5498	16.80
OAK	100	7/4.65	118.9	13.95	325	0.2769	33.30
ASH	150	19/3.48	180.7	17.40	497	0.1830	50.65
ELM	175	19/3.76	211.0	18.80	580	0.1568	59.10
UPAS	300	37/3.53	362.1	24.71	997	0.09155	101.5

Technical Characteristics Based on Standard BS EN50182

Code	Old code	Area	Number of wires	Wire diameter	Conductor diameter	Linear mass	Rated strength	D.C. resistance at 20°C
		mm <sup>2</sup>	No.	mm	mm	kg/km	kN	Ω/km
19-AI3	BOX	18.8	7	1.85	5.55	51.4	5.55	1.7480
24-AI3	ACACIA	23.8	7	2.08	6.24	64.9	7.02	1.3828
30-AI3	ALMOND	30.1	7	2.34	7.02	82.2	8.88	1.0926
35-AI3	CEDAR	35.5	7	2.54	7.62	96.8	10.46	0.9273
42-AI3	DEODAR	42.2	7	2.77	8.31	115.2	12.44	0.7797
48-AI3	FIR	47.8	7	2.95	8.85	130.6	14.11	0.6875
60-AI3	HAZEL	59.9	7	3.30	9.90	163.4	17.66	0.5494
72-AI3	PINE	71.6	7	3.61	10.8	195.6	21.14	0.4591
84-AI3	HOLLY	84.1	7	3.91	11.7	229.5	24.79	0.3913
90-AI3	WILLOW	89.7	7	4.04	12.1	245.0	26.47	0.3665
119-AI3	OAK	118.9	7	4.65	14.0	324.5	35.07	0.2767
151-AI3	MULBERRY	150.9	19	3.18	15.9	414.3	44.52	0.2192
181-AI3	ASH	180.7	19	3.48	17.4	496.1	53.31	0.1830
211-AI3	ELM	211.0	19	3.76	18.8	579.2	62.24	0.1568
239-AI3	POPLAR	239.4	37	2.87	20.1	659.4	70.61	0.1387
303-AI3	SYCAMORE	303.2	37	3.23	22.6	835.2	89.40	0.1095
362-AI3	UPAS	362.1	37	3.53	24.7	997.5	106.82	0.0917
479-AI3	YEW	479.0	37	4.06	28.4	1319.6	141.31	0.0693
498-AI3	TOTARA	498.1	37	4.14	29.0	1372.1	146.93	0.0666
587-AI3	RUBUS	586.9	61	3.50	31.5	1622.0	173.13	0.0567
659-AI3	SORBUS	659.4	61	3.71	33.4	1822.5	194.53	0.0505
821-AI3	ARAUCARIA	821.1	61	4.14	37.3	2269.4	242.24	0.0406
996-AI3	REDWOOD	996.2	61	4.56	41.0	2753.2	293.88	0.0334

**AAAC (All Aluminium Alloy Conductors)  
AASC (Aluminium Alloy Stranded Conductors)**

Technical Characteristics Based on Standard DIN 48201 / DIN EN50182

Code number	Area	Number of wires	Wire diameter	Conductor diameter	Linear mass	Rated strength	D.C. resistance at 20°C
	mm <sup>2</sup>	No.	mm	mm	kg/km	kN	Ω/km
16	15.9	7	1.70	5.10	43.4	4.69	2.0701
25	24.2	7	2.10	6.30	66.2	7.15	1.3566
35	34.4	7	2.50	7.50	93.8	10.14	0.9572
50	49.5	7	3.00	9.00	135.1	14.60	0.6647
50	48.3	19	1.80	9.00	132.7	14.26	0.6841
70	65.8	19	2.10	10.5	180.7	19.41	0.5026
95	93.3	19	2.50	12.5	256.0	27.51	0.3546
120	117.0	19	2.80	14.0	321.2	34.51	0.2827
150	147.1	37	2.25	15.8	405.3	43.40	0.2256
185	181.6	37	2.50	17.5	500.3	53.58	0.1827
240	242.5	61	2.25	20.3	670.3	71.55	0.1373
300	299.4	61	2.50	22.5	827.5	88.33	0.1112
400	400.1	61	2.89	26.0	1105.9	118.04	0.0832
500	499.8	61	3.23	29.1	1381.4	147.45	0.0666
625	626.2	91	2.96	32.6	1737.7	184.73	0.0534
800	802.1	91	3.35	36.9	2225.8	236.62	0.0417
1000	999.7	91	3.74	41.1	2774.3	294.91	0.0334



**AAAC (All Aluminium Alloy Conductors)  
AASC (Aluminium Alloy Stranded Conductors)**

Technical Characteristics Based on Standard NF C 34-125

Code number	Area	Number of wires	Wire diameter	Conductor diameter	Linear mass	Rated strength	D.C. resistance at 20°C
	mm <sup>2</sup>	No.	mm	mm	kg/km	kN	Ω/km
ASTER 22	22.0	7	2.00	6.00	60.0	7.15	1.4989
ASTER 34.4	34.4	7	2.50	7.50	93.8	11.17	0.9593
ASTER 54.6	54.6	7	3.15	9.45	148.9	17.73	0.6042
ASTER 75.5	75.5	19	2.25	11.3	207.4	24.55	0.4388
ASTER 117	117.0	19	2.80	14.0	321.2	38.02	0.2833
ASTER 148	148.1	19	3.15	15.8	406.5	48.12	0.2239
ASTER 181.6	181.6	37	2.50	17.5	500.3	59.03	0.1831
ASTER 228	227.8	37	2.80	19.6	627.6	74.04	0.1460
ASTER 288	288.3	37	3.15	22.1	794.3	93.71	0.1154
ASTER 366	366.2	37	3.55	24.9	1008.9	115.36	0.0908
ASTER 570	570.2	61	3.45	31.1	1576	185.33	0.0585
ASTER 851	850.7	91	3.45	38.0	2360.7	276.47	0.0394
ASTER 1144	1143.5	91	4.00	44.0	3173.4	360.22	0.0293
ASTER 1600	1595.9	127	4.00	52.0	4427.5	502.72	0.0210



## AAAC (All Aluminum Alloy Conductors) AASC (Aluminum Alloy Stranded Conductors)

Technical Characteristics Based on Standard ASTM B399

Code number	Conductor size		Number of wires No.	Wire diameter mm	Conductor diameter mm	Linear mass kg/km	Rated strength kN	D.C. resistance at 20°C Ω/km
	kcmil	mm <sup>2</sup>						
Akron	30.58	15.5	7	1.68	5.04	42.58	4.92	2.159
Alton	48.69	24.7	7	2.12	6.36	67.80	7.83	1.356
Ames	77.47	39.2	7	2.67	8.01	107.5	12.4	0.8547
Azusa	123.3	62.4	7	3.37	10.11	171.3	18.9	0.5365
Anaheim	155.4	78.6	7	3.78	11.34	215.6	23.8	0.4264
Amherst	195.7	99.3	7	4.25	12.75	272.5	30.0	0.3373
Alliance	246.9	125	7	4.77	14.31	343.2	37.8	0.2678
Butte	312.8	159	19	3.26	16.3	435.1	46.5	0.2112
Canton	394.5	200	19	3.66	18.3	548.5	58.6	0.1676
Cairo	465.4	236	19	3.98	19.9	648.6	69.2	0.1417
Darien	559.5	284	19	4.36	21.8	778.3	83.1	0.1181
Elgin	652.4	331	19	4.71	23.55	908.3	97.0	0.1012
Flint	740.8	375	37	3.59	25.13	1028	107	0.08944
Greeley	927.2	470	37	4.02	28.14	1289	135	0.07133
—	1077.4	547	61	3.38	30.42	1502	156	0.06120
—	1165.1	590	61	3.51	31.59	1620	167	0.05675
—	1259.6	638	61	3.65	32.85	1751	181	0.05248
—	1348.8	685	61	3.78	34.02	1878	194	0.04893
—	1439.2	729	61	3.90	35.1	1999	207	0.04597



## ACSR (Aluminium Conductor Steel Reinforced)



**Construction**

ACSR conductor consists of seven or more aluminium and galvanized steel wires built up in concentric layers.

**Application**

Used in overhead electric power transmission and distribution lines for various voltages.

**Standard**

GB/T 1179, IEC 61089, EN 50182, BS 215-2, DIN 48204, ASTM B232

Technical Characteristics Based on Standard GB/T 1179 (IEC 61089)

Nominal area mm <sup>2</sup>	Number of wires and wire diameter		Calculated area			Cond. diameter mm	Linear mass kg/km	Rated strength kN	D.C. resistance at 20°C Ω/km
	Al/St	Al	St	Al	St				
	No./mm	No./mm	mm <sup>2</sup>	mm <sup>2</sup>	mm <sup>2</sup>				
16/3	6/1.85	1/1.85	16.13	2.69	18.82	5.55	65.1	6.13	1.7791
35/6	6/2.72	1/2.72	34.86	5.81	40.67	8.16	140.8	12.55	0.8230
50/8	6/3.20	1/3.20	48.25	8.04	56.30	9.60	194.8	16.81	0.5946
50/30	12/2.32	7/2.32	50.73	29.59	80.32	11.6	371.1	42.61	0.5693
70/10	6/3.80	1/3.80	68.05	11.34	79.39	11.4	274.8	23.36	0.4217
70/40	12/2.72	7/2.72	69.73	40.67	110.40	13.6	510.2	58.22	0.4141
95/15	26/2.15	7/1.67	94.39	15.33	109.73	13.6	380.2	34.96	0.3059
95/20	7/4.16	7/1.85	95.14	18.82	113.96	13.9	408.2	37.24	0.3020
95/55	12/3.20	7/3.20	96.51	56.30	152.81	16.0	706.1	77.85	0.2992
120/20	26/2.38	7/1.85	115.67	18.82	134.49	15.1	466.1	42.26	0.2496
120/25	7/4.72	7/2.10	122.48	24.25	146.73	15.7	525.7	47.96	0.2346
120/70	12/3.60	7/3.60	122.15	71.25	193.40	18.0	893.7	97.92	0.2364
150/8	18/3.20	1/3.20	144.76	8.04	152.80	16.0	460.9	32.73	0.1990
150/20	24/2.78	7/1.85	145.68	18.82	164.50	16.7	548.5	46.78	0.1981
150/25	26/2.70	7/2.10	148.86	24.25	173.11	17.1	600.1	53.67	0.1940
150/35	30/2.50	7/2.50	147.26	34.36	181.62	17.5	675.0	64.94	0.1962
185/10	18/3.60	1/3.60	183.22	10.18	193.40	18.0	583.3	40.51	0.1572
185/25	24/3.15	7/2.10	187.03	24.25	211.28	18.9	704.9	59.23	0.1543
185/30	26/2.98	7/2.32	181.34	29.59	210.93	19.9	731.4	64.56	0.1592
185/45	30/2.80	7/2.80	184.73	43.10	227.83	19.6	846.7	80.54	0.1564
210/10	18/3.80	1/3.80	204.14	11.34	215.48	19.0	649.9	45.14	0.1411
210/25	24/3.33	7/2.22	209.02	27.10	236.12	20.0	787.8	66.19	0.1380
210/35	26/3.22	7/2.50	211.73	34.36	246.09	20.4	852.5	74.11	0.1364
210/50	30/2.98	7/2.98	209.24	48.82	258.06	20.9	959.0	91.23	0.1381
240/30	24/3.60	7/2.40	244.29	31.67	275.96	21.6	920.7	75.19	0.1181
240/40	26/3.42	7/2.66	238.84	38.90	277.74	21.7	962.8	83.76	0.1209
240/55	30/3.20	7/3.20	241.27	56.30	297.57	22.4	1105.8	101.74	0.1198
300/20	45/2.93	7/1.95	303.42	20.91	324.32	23.4	1000.8	76.04	0.0952
300/25	48/2.85	7/2.22	306.21	27.10	333.31	23.8	1057.0	83.76	0.0944
300/40	24/3.99	7/2.66	300.09	38.90	338.99	23.9	1131.0	92.36	0.0961
300/50	26/3.83	7/2.98	299.54	48.82	348.37	24.3	1207.7	103.58	0.0964
300/70	30/3.60	7/3.60	305.36	71.25	376.61	25.2	1399.6	127.23	0.0946
400/20	42/3.51	7/1.95	406.40	20.91	427.31	26.9	1284.3	89.48	0.0710
400/25	45/3.33	7/2.22	391.91	27.10	419.01	26.6	1293.5	96.37	0.0737
400/35	48/3.22	7/2.50	390.88	34.36	425.24	26.8	1347.5	103.67	0.0739
400/65	26/4.42	7/3.44	398.94	65.06	464.00	28.0	1608.7	135.39	0.0724
400/95	30/4.16	19/2.50	407.75	93.27	501.02	29.1	1856.7	171.56	0.0709
500/45	48/3.60	7/2.80	488.58	43.10	531.68	30.0	1685.5	127.31	0.0591
630/55	48/4.12	7/3.20	639.92	56.30	696.22	34.3	2206.4	164.31	0.0452
800/55	45/4.80	7/3.20	814.30	56.30	870.60	38.4	2687.5	192.22	0.0355
800/70	48/4.63	7/3.60	808.15	71.25	879.40	38.6	2787.6	207.68	0.0358

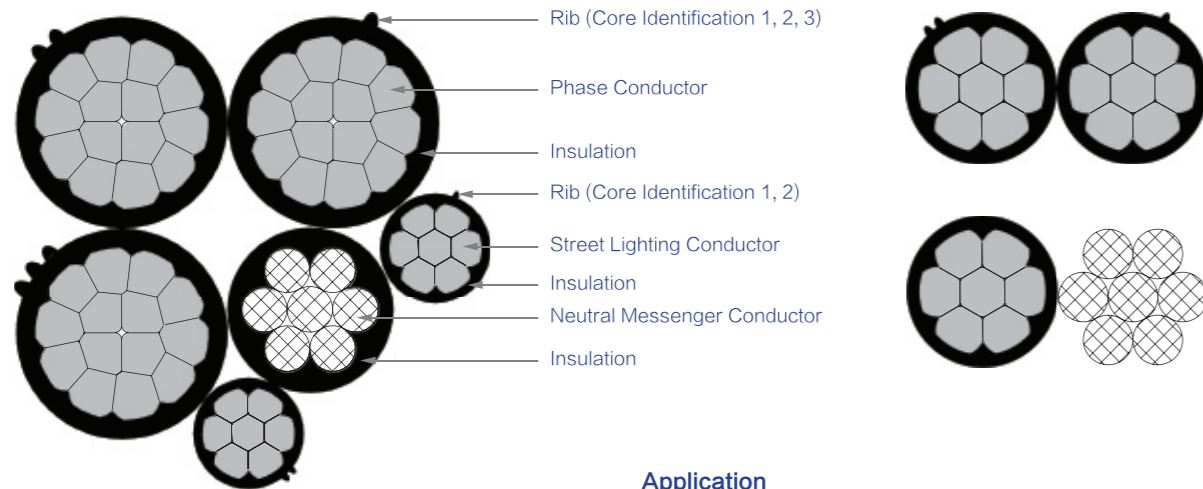






## Low Voltage Aerial Insulated Cable

Aerial Bundled Conductors(ABC), Aerial Bundled Cables(ABC), Service Drop Cable



### Application

It is extensively used in overhead electric power transmission and distribution lines, especially in rebuilding of urban and forest region electrified wire netting. This cable improves safety and reliance of electrified wire netting.

### Operating Characteristics

Rated Voltage: Up to and including 0.6/1(1.2)kV  
 Max. Operating Temperature of Conductor: 90 °C(XLPE), 70°C(PE), 70°C(PVC)  
 Max. Short-circuit Temperature of Conductor: 250°C(XLPE), 130°C(PE), 160°C(PVC)  
 Min. Ambient Temperature under Installation: -20°C

### Construction

Phase Conductor: Aluminium  
 Neutral Non-messenger Conductor: Aluminium  
 Neutral Messenger Conductor: Aluminium Alloy  
 Street Lighting Conductor: Aluminium  
 Insulation: XLPE or PE or PVC(weathering resistance)

### Standard

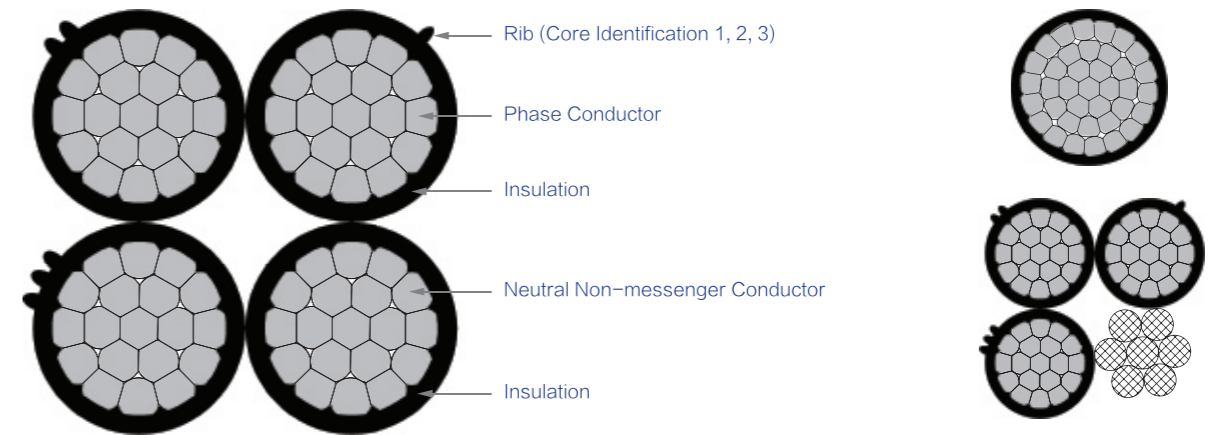
NF C33-209, BS 7870-5, GB/T 12527, IEC 60502

### Technical Characteristics Based on Standard NF C 33-209

Conductor type	Designation		Conductor				Average thickness of insulation (XLPE)	Insulated conductor	
	Nominal area	Number of wires	Max. D.C. resistance at 20°C	Diameter of conductor		Min. breaking load		Overall diameter	
				mm	mm			mm	mm
Phase or neutral non-messenger or street lighting	16	7	1.91	4.6	5.1	1.9	1.2	7.0	7.8
	25	7	1.20	5.8	6.3	3.0	1.4	8.6	9.4
	35	7	0.868	6.8	7.3	-	1.6	10.0	10.9
	50	7	0.641	7.9	8.4	-	1.6	11.1	12.0
	70	12	0.443	9.7	10.2	-	1.8	13.3	14.2
	95	19	0.320	11.0	12.0	-	1.8	14.6	15.7
	120	19	0.253	12.0	13.1	-	1.8	15.6	16.7
Neutral messenger	54.6	7	0.63	9.2	9.6	16.6	1.6	12.3	13.0
	70	7	0.50	10.0	10.2	20.5	1.5	12.9	13.6
	95	19	0.343	12.2	12.9	27.5	1.6	15.3	16.3

## Low Voltage Aerial Insulated Cable

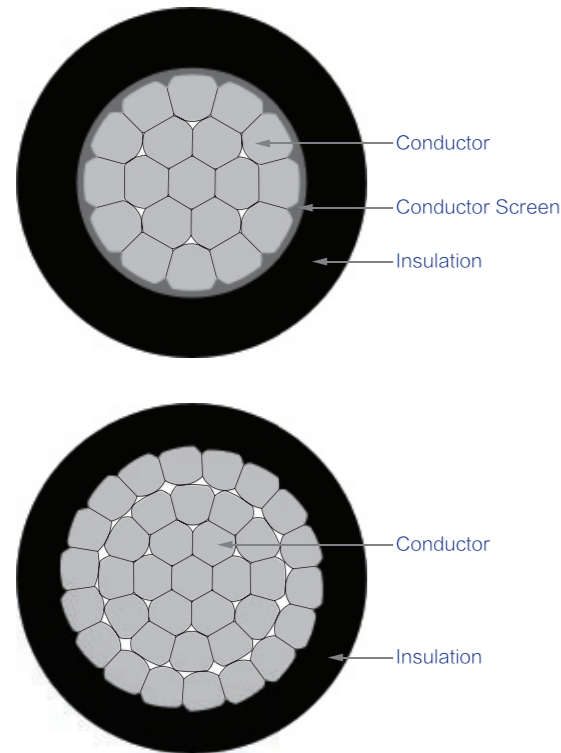
Aerial Bundled Conductors(ABC), Aerial Bundled Cables(ABC), Service Drop Cable



### Technical Requirements Based on Standard GB/T 12527 and IEC 60502

Nominal conductor area	Number of wires, min	Approx. conductor diameter	Nominal insulation thickness	Aver. diameter of insulated cable, max	Breaking load, min		D.C. resistance at 20°C, max	
					Aluminium	Aluminium alloy	Aluminium	Aluminium alloy
mm <sup>2</sup>	No.	mm	mm	mm	N	N	Ω/km	Ω/km
16	6	4.8	1.2	8.0	2517	4022	1.91	2.217
25	6	6.0	1.2	9.4	3762	6284	1.20	1.393
35	6	7.0	1.4	11.0	5177	8800	0.868	1.007
50	6	8.4	1.4	12.3	7011	12569	0.641	0.744
70	12	10.0	1.4	14.1	10354	17596	0.443	0.514
95	15	11.6	1.6	16.5	13727	23880	0.320	0.371
120	15	13.0	1.6	18.1	17339	30164	0.253	0.294
150	15	14.6	1.8	20.2	21033	37706	0.206	0.239
185	30	16.2	2.0	22.5	26732	46503	0.164	0.190
240	30	18.4	2.2	25.6	34679	60329	0.125	0.145
300	30	20.8	2.2	27.2	43349	75411	0.100	0.116
400	53	23.2	2.2	30.7	55707	100548	0.0778	0.0904

## Medium Voltage Aerial Insulated Cable



### Construction

Conductor: Aluminium  
 Conductor Screen: Semi-conducting Compound (not applicable for light-duty aerial insulated cable)  
 Insulation: XLPE or HDPE

### Standard

GB/T 14049, IEC 60502

### Application

Used in overhead electric power transmission and distribution lines.

### Operating Characteristics

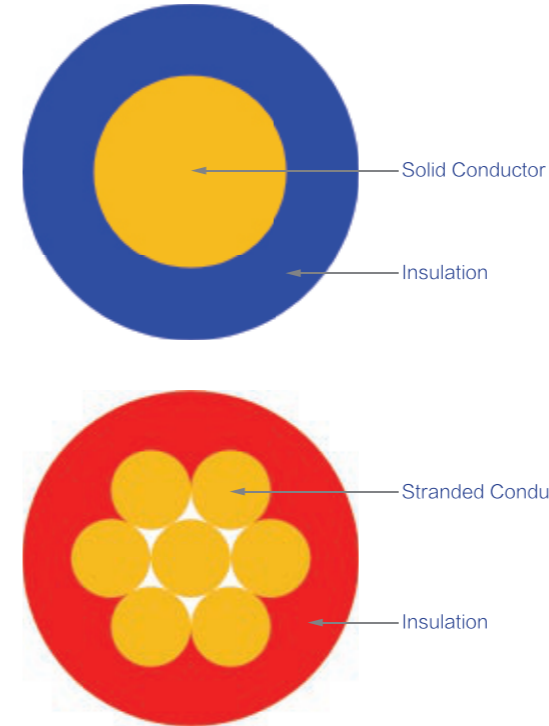
Rated Voltage: 10kV  
 Max. Operating Temperature of Conductor: 90°C(XLPE), 75°C(HDPE)  
 Max. Short-circuit Temperature of Conductor: 250°C(XLPE), 150°C(HDPE)  
 Min. Ambient Temperature under Installation: -20°C

Technical Requirements Based on Standard GB/T 14049 and IEC 60502

Nominal conductor area	Number of wires, min	Approx. conductor diameter	Thickness of conductor screen, min	Nominal insulation thickness		Breaking load, min		D.C. resistance at 20°C, max	
				Light-duty	Ordinary-duty	Al	Al alloy	Al	Al alloy
mm <sup>2</sup>	No.	mm	mm	mm	mm	N	N	Ω/km	Ω/km
25	6	6.0	0.5	2.5	3.4	3762	6284	1.200	1.393
35	6	7.0	0.5	2.5	3.4	5177	8800	0.868	1.007
50	6	8.4	0.5	2.5	3.4	7011	12569	0.641	0.744
70	12	10.0	0.5	2.5	3.4	10354	17596	0.443	0.514
95	15	11.6	0.6	2.5	3.4	13727	23880	0.320	0.371
120	18	13.0	0.6	2.5	3.4	17339	30164	0.253	0.294
150	18	14.6	0.6	2.5	3.4	21033	37706	0.206	0.239
185	30	16.2	0.6	2.5	3.4	26732	46503	0.164	0.190
240	34	18.4	0.6	2.5	3.4	34679	60329	0.125	0.145
300	34	20.6	0.6	2.5	3.4	43349	75411	0.100	0.116
400	53	23.8	0.6	2.5	3.4	55707	100548	0.0778	0.0904

Note: There is no conductor screen for light-duty aerial insulated cable.

## BV CU/PVC Non-sheathed Single Core Cable



### Construction

Conductor: Solid (Class 1) or Stranded (Class 2) Copper  
 Insulation: PVC

### Standard

BS 6004, IEC 60227

### Application

Used for general purpose, as electric power, lighting and internal fixed wiring. Laid in conduit, trunking, on or under plaster, etc.

### Rated Voltage - Code Name

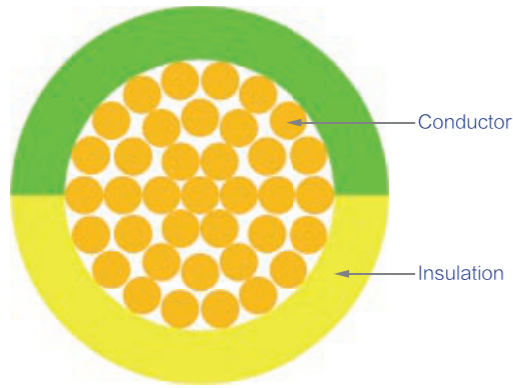
300/500V - H05V-U, H05V-R  
 450/750V - H07V-U, H07V-R

### Colours for Core Identification

Blue, Red, Black, White, Green/yellow, or other colours.

Code Name	Nominal conductor area	Number of wires	Nominal diameter of wire	Nominal thickness of insulation	Approx. Overall diameter	Max. Conductor D.C. resistance at 20°C
	mm <sup>2</sup>					
H05V-U	0.5	1	0.80	0.6	2.0	36.0
	0.75	1	0.97	0.6	2.2	24.5
	1.0	1	1.13	0.6	2.3	18.1
H07V-U	1.5	1	1.38	0.7	2.8	12.1
	2.5	1	1.78	0.8	3.4	7.41
	4	1	2.25	0.8	3.8	4.61
	6	1	2.76	0.8	4.4	3.08
H07V-R	10	1	3.55	1.0	5.5	1.83
	1.5	7	0.52	0.7	3.0	12.1
	2.5	7	0.68	0.8	3.6	7.41
	4	7	0.85	0.8	4.2	4.61
	6	7	1.04	0.8	4.7	3.08
	10	7	1.35	1.0	6.0	1.83
	16	7	1.70	1.0	7.1	1.15
	25	7	2.10	1.2	8.7	0.727
	35	7	2.48	1.2	9.8	0.524
	50	19	1.76	1.4	11.6	0.387
	70	19	2.10	1.4	13.3	0.268
	95	19	2.48	1.6	15.6	0.193
	120	37	1.99	1.6	17.1	0.153
	150	37	2.22	1.8	19.1	0.124
	185	37	2.48	2.0	21.3	0.0991

# BVR CU/PVC Non-sheathed Single Core Cable (Earth Cable)



**Construction**

Conductor: Stranded (Class 2) Copper  
Insulation: PVC

**Standard**

BS 6004, IEC 60227

**Application**

Used for general purpose, especially for earthing.

**Rated Voltage**

450/750V  
Note: This cable may be suitable for voltage up to 1000V AC or up to 750V to earth DC.

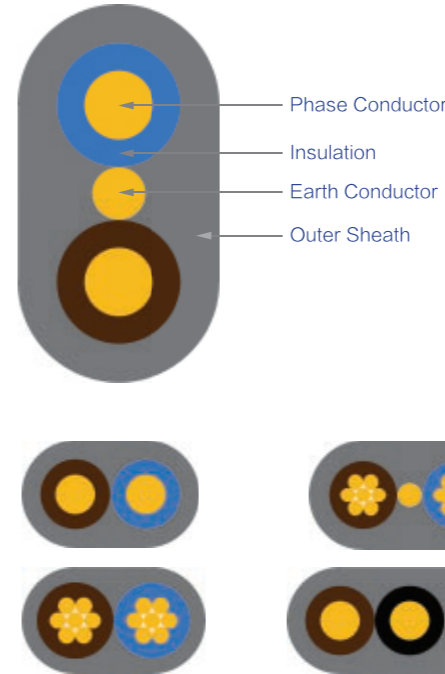
**Colours for Core Identification**

Green/yellow, or other colours.

Nominal conductor area	Number of wires	Nominal diameter of wire	Nominal thickness of insulation	Approx. Overall diameter	Max. Conductor D.C. resistance at 20°C
mm <sup>2</sup>	No.	mm	mm	mm	Ω/km
2.5	19	0.41	0.8	3.7	7.41
4	19	0.52	0.8	4.2	4.61
6	19	0.64	0.8	4.8	3.08
10	49	0.52	1.0	6.7	1.83
16	49	0.64	1.0	7.8	1.15
25	98	0.58	1.2	10.1	0.727
35	133	0.58	1.2	11.1	0.524
50	133	0.68	1.4	13.0	0.387
70	189	0.68	1.4	15.4	0.268
95	259	0.68	1.6	17.5	0.193
120	361	0.64	1.6	19.2	0.153
150	703	0.52	1.8	18.6	0.124
185	513	0.68	2.0	24.9	0.0991
240	703	0.68	2.2	28.2	0.0754



# BVVB CU/PVC/PVC Twin Core and 3-Core Flat Cable



**Construction**

Conductor: Solid (Class 1) or Stranded (Class 2) Copper  
Insulation: PVC  
Outer Sheath: PVC

**Standard**

BS 6004, IEC 60227

**Application**

Used for general purpose, as electric power, lighting and surface fixed wiring.

**Rated Voltage**

300/500V

**Colours for Core Identification**

Twin core : Brown and Blue  
3-Core : Brown, Black (centre core) and Grey

**Colour for Sheath**

Twin core and 3-Core: Grey

Note: Other colours may be used by agreement between manufacturer and customer.

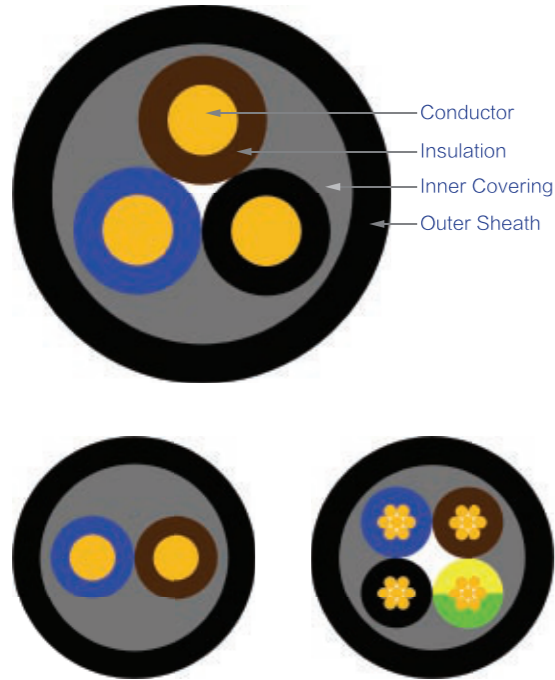
**Technical Data for Twin Core and 3-Core**

Nominal conductor area	Number of wires	Nominal diameter of wire	Nominal thickness of insulation	Nominal thickness of outer sheath		Approx. Overall diameter		Max. Conductor D.C. resistance at 20°C
				Twin Core	3-Core	Twin Core	3-Core	
mm <sup>2</sup>	No.	mm	mm	mm	mm	mm	mm	Ω/km
1.0	1	1.13	0.6	0.9	0.9	4.1 x 6.5	4.1 x 8.8	18.1
1.5	1	1.38	0.7	0.9	0.9	4.6 x 7.4	4.6 x 10.1	12.1
2.5	1	1.78	0.8	1.0	1.0	5.4 x 8.8	5.4 x 12.1	7.41
4	7	0.85	0.8	1.0	1.1	6.2 x 10.3	6.4 x 14.7	4.61
6	7	1.04	0.8	1.1	1.1	6.9 x 11.6	6.9 x 16.4	3.08
10	7	1.35	1.0	1.2	1.2	8.5 x 14.5	8.5 x 20.6	1.83
16	7	1.70	1.0	1.3	1.3	9.7 x 16.8	9.7 x 23.9	1.15

**Technical Data for Twin & Earth**

Nominal conductor area	Number of wires and Nominal diameter of wire		Nominal thickness of insulation	Nominal thickness of outer sheath	Approx. Overall diameter	Max. Conductor D.C. resistance at 20°C	
	Phase Conductor	Earth Conductor				Phase Conductor	Earth Conductor
mm <sup>2</sup>	No. x mm	No. x mm	mm	mm	mm	Ω/km	Ω/km
2 x 1.0 + 1.0	1 x 1.13	1 x 1.13	0.6	0.9	4.1 x 7.6	18.1	18.1
2 x 1.5 + 1.0	1 x 1.38	1 x 1.13	0.7	0.9	4.6 x 8.5	12.1	18.1
2 x 2.5 + 1.5	1 x 1.78	1 x 1.38	0.8	1.0	5.4 x 10.1	7.41	12.1
2 x 4 + 1.5	7 x 0.85	1 x 1.38	0.8	1.1	6.4 x 11.9	4.61	12.1
2 x 6 + 2.5	7 x 1.04	1 x 1.78	0.8	1.1	6.9 x 13.4	3.08	7.41
2 x 10 + 4	7 x 1.35	1 x 2.25	1.0	1.2	8.5 x 16.8	1.83	4.61
2 x 16 + 6	7 x 1.70	1 x 2.76	1.0	1.3	9.7 x 19.6	1.15	3.08

# BVV CU/PVC/PVC Multi-core Light-duty Cable



**Construction**

Conductor: Solid (Class 1) or Stranded (Class 2) Copper  
 Insulation: PVC  
 Inner Covering: PVC  
 Outer Sheath: PVC  
 Number of cores: 2, 3, 4 or 5

**Standard**

IEC 60227

**Application**

Used for general purpose, as electric power, lighting and fixed wiring.

**Rated Voltage**

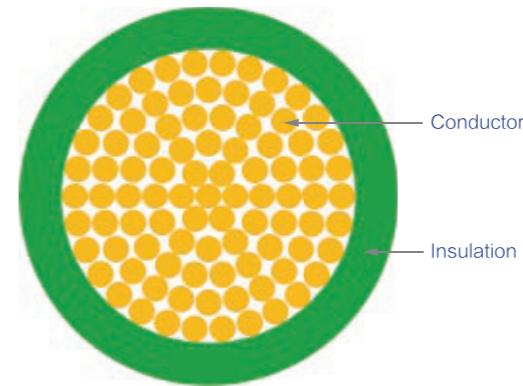
300/500V

**Colours for Core Identification**

Blue, Brown, Black, Green/yellow, Red, White, Green, or other colours.

No. of core and Nominal conductor area	Number of wires	Nominal diameter of wire	Nominal thickness of insulation	Nominal thickness of inner covering	Nominal thickness of outer sheath	Approx. Overall diameter	Max. Conductor D.C. resistance at 20°C
No. x mm <sup>2</sup>	No.	mm	mm	mm	mm	mm	Ω/km
2 x 1.5	1	1.38	0.7	0.4	1.2	8.8	12.1
2 x 2.5	1	1.78	0.8	0.4	1.2	10.0	7.41
2 x 4	1	2.25	0.8	0.4	1.2	11.0	4.61
2 x 6	1	2.76	0.8	0.4	1.2	12.0	3.08
2 x 10	1	3.55	1.0	0.6	1.4	14.3	1.83
2 x 16	7	1.70	1.0	0.6	1.4	18.2	1.15
2 x 25	7	2.10	1.2	0.8	1.4	21.8	0.727
2 x 35	7	2.48	1.2	1.0	1.6	24.9	0.524
3 x 1.5	7	0.52	0.7	0.4	1.2	9.6	12.1
3 x 2.5	7	0.68	0.8	0.4	1.2	11.0	7.41
3 x 4	7	0.85	0.8	0.4	1.2	12.1	4.61
3 x 6	7	1.04	0.8	0.4	1.4	13.8	3.08
3 x 10	7	1.35	1.0	0.6	1.4	17.0	1.83
4 x 1.5	1	1.38	0.7	0.4	1.2	9.9	12.1
4 x 2.5	1	1.78	0.8	0.4	1.2	11.4	7.41
5 x 1.5	7	0.52	0.7	0.4	1.2	11.2	12.1
5 x 2.5	7	0.68	0.8	0.4	1.2	13.0	7.41

# RV Flexible CU/PVC Non-sheathed Single Core Cable



**Construction**

Conductor: Flexible (Class 5) Copper  
 Insulation: PVC

**Standard**

BS 6004, IEC 60227

**Application**

Used for general purpose, as electric power, lighting and internal fixed wiring.

**Rated Voltage - Code Name**

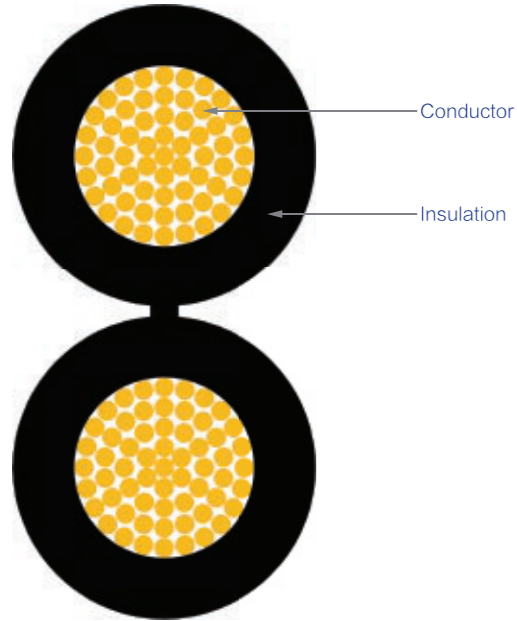
300/500V - H05V-K  
 450/750V - H07V-K

**Colours for Core Identification**

Green, Blue, Red, Black, White, Brown, or other colours.

Code Name	Nominal conductor area	Number of wires	Nominal diameter of wire	Nominal thickness of insulation	Approx. Overall diameter	Max. Conductor D.C. resistance at 20°C
	mm <sup>2</sup>	No.	mm	mm	mm	Ω/km
H05V-K	0.5	16	0.20	0.6	2.1	39.0
	0.75	24	0.20	0.6	2.3	26.0
	1.0	32	0.20	0.6	2.5	19.5
H07V-K	1.5	30	0.25	0.7	3.0	13.3
	2.5	50	0.25	0.8	3.6	7.98
	4	81	0.25	0.8	4.2	4.95
	6	121	0.25	0.8	4.8	3.30
	10	77	0.40	1.0	6.5	1.91
	16	126	0.40	1.0	7.8	1.21
	25	196	0.40	1.2	9.7	0.780
	35	280	0.40	1.2	11.5	0.554
	50	380	0.40	1.4	13.1	0.386
	70	350	0.50	1.4	15.5	0.272
	95	475	0.50	1.6	17.6	0.206
	120	600	0.50	1.6	19.7	0.161
	150	750	0.50	1.8	22.0	0.129
	185	925	0.50	2.0	24.1	0.106

# RVB Flexible CU/PVC Non-sheathed Twin Core Parallel Cable



**Construction**

Conductor: Flexible (Class 5 or Class 6) Copper  
Insulation: PVC

**Standard**

BS 6500, IEC 60227

**Application**

Used for appliances and equipment intended for domestic, office and similar environments.

**Rated Voltage**

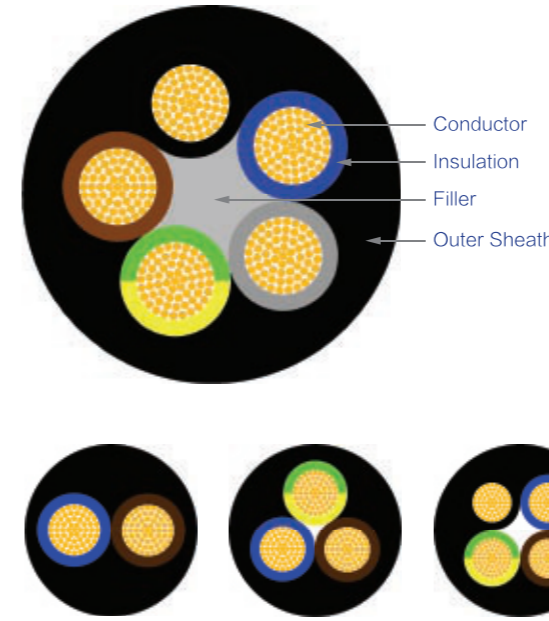
300/300V

No. of cores and Nominal conductor area	Number of wires	Nominal diameter of wire	Nominal thickness of insulation	Approx. Overall diameter	Max. Conductor D.C. resistance at 20°C
No. x mm <sup>2</sup>	No.	mm	mm	mm	Ω/km
2 x 0.5	28	0.15	0.8	2.5 x 5.0	39.0
2 x 0.75	42	0.15	0.8	2.7 x 5.4	26.0
2 x 1.0	56	0.15	0.8	2.9 x 5.8	19.5
2 x 1.5	48	0.20	0.9	3.4 x 6.8	13.3
2 x 2.5	50	0.25	0.9	3.8 x 7.6	7.98
2 x 4	56	0.30	1.0	4.6 x 9.2	4.95
2 x 6	84	0.30	1.0	5.2 x 10.4	3.30

**Technical Data for Sunlight Resistant Landscape Lighting Wire**

No. of cores and Nominal conductor area	Number of wires	Nominal diameter of wire	Nominal thickness of insulation	Approx. Overall diameter
No.	No.	mm	mm	mm
2 x 14 AWG	41	0.25	1.2	4.3 x 8.7
2 x 12 AWG	65	0.25	1.2	4.9 x 9.8
2 x 10 AWG	102	0.25	1.4	5.3 x 10.6
2 x 8 AWG	168	0.25	1.6	7.5 x 15.0

# RVV Flexible CU/PVC/PVC Multi-core Cable



**Construction**

Conductor: Flexible (Class 5) Copper  
Insulation: PVC  
Filler: Non-hygroscopic Polypropylene(PP)  
Outer Sheath: PVC

**Standard**

BS 6500, IEC 60227

**Application**

Used for appliances and equipment intended for domestic, office and similar environments.

**Rated Voltage - Code Name**

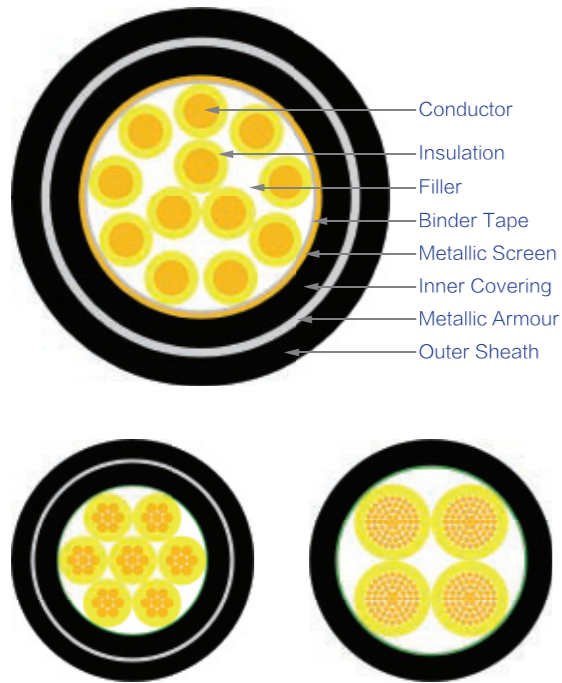
300/300V - H03VV-F  
300/500V - H05VV-F

**Colours for Core Identification**

Green/yellow, Blue, Brown, Black, Grey, or other colours.

Code Name	No. of cores and Nominal conductor area	Number of wires	Nominal diameter of wire	Nominal thickness of insulation	Nominal thickness of outer sheath	Approx. Overall diameter	Max. Conductor D.C. resistance at 20°C
	No. x mm <sup>2</sup>						
H03VV-F	2 x 0.5	16	0.20	0.5	0.6	5.0	39.0
	2 x 0.75	24	0.20	0.5	0.6	5.5	26.0
	3 x 0.5	16	0.20	0.5	0.6	5.3	39.0
	3 x 0.75	24	0.20	0.5	0.6	5.8	26.0
	4 x 0.5	16	0.20	0.5	0.6	5.8	39.0
	4 x 0.75	24	0.20	0.5	0.6	6.3	26.0
H05VV-F	2 x 0.75	24	0.20	0.6	0.8	6.3	26.0
	2 x 1.0	32	0.20	0.6	0.8	6.6	19.5
	2 x 1.5	30	0.25	0.7	0.8	7.5	13.3
	2 x 2.5	50	0.25	0.8	1.0	9.3	7.98
	2 x 4	81	0.25	0.8	1.1	10.6	4.95
	3 x 0.75	24	0.20	0.6	0.8	6.6	26.0
	3 x 1.0	32	0.20	0.6	0.8	7.0	19.5
	3 x 1.5	30	0.25	0.7	0.9	8.2	13.3
	3 x 2.5	50	0.25	0.8	1.1	10.0	7.98
	3 x 4	81	0.25	0.8	1.2	11.4	4.95
	4 x 0.75	24	0.20	0.6	0.8	7.2	26.0
	4 x 1.0	32	0.20	0.6	0.9	7.8	19.5
	4 x 1.5	30	0.25	0.7	1.0	9.2	13.3
	4 x 2.5	50	0.25	0.8	1.1	11.0	7.98
	4 x 4	81	0.25	0.8	1.2	12.5	4.95
	5 x 0.75	24	0.20	0.6	0.9	8.1	26.0
	5 x 1.0	32	0.20	0.6	0.9	8.6	19.5
	5 x 1.5	30	0.25	0.7	1.1	10.2	13.3
	5 x 2.5	50	0.25	0.8	1.2	12.2	7.98
	5 x 4	81	0.25	0.8	1.4	14.1	4.95

## Control Cable



### Construction

Conductor: Copper (Class 1, or Class 2, or Class 5)  
 Insulation: PVC (or XLPE)  
 Filler: Non-hygroscopic Polypropylene(PP)  
 Binder Tape: Non-woven fabric  
 Metallic Screen: Copper Tape ( or Braided Copper Wire)  
 Inner Covering: PVC  
 Metallic Armour: Galvanized Steel Tape Armour(STA)  
 Outer Sheath: PVC (or PE)

### Standard

GB/T 9330

### Application

Used for controlling signal, connecting between machines.

### Rated Voltage

Up to and including 450/750V

Type	Description	Number of cores	Nominal cross section of conductor
KVV	CU/PVC/PVC Control Cable	2-61	0.75-10mm <sup>2</sup>
KYJV	CU/XLPE/PVC Control Cable	2-61	0.75-10mm <sup>2</sup>
KVVP	CU/PVC/Braided Copper Wire Screen/PVC Control Cable	2-61	0.75-10mm <sup>2</sup>
KYJVP	CU/XLPE/Braided Copper Wire Screen/PVC Control Cable	2-61	0.75-10mm <sup>2</sup>
KVVP2	CU/PVC/ Copper Tape Screen/PVC Control Cable	4-61	0.75-10mm <sup>2</sup>
KYJVP2	CU/XLPE/ Copper Tape Screen/PVC Control Cable	4-61	0.75-10mm <sup>2</sup>
KVV22	CU/PVC/STA/PVC Control Cable	4-61	0.75-10mm <sup>2</sup>
KYJV22	CU/XLPE/STA/PVC Control Cable	4-61	0.75-10mm <sup>2</sup>
KVVP2-22	CU/PVC/Copper Tape Screen/STA/PVC Control Cable	4-61	0.75-10mm <sup>2</sup>
KYJVP2-22	CU/XLPE/Copper Tape Screen/STA/PVC Control Cable	4-61	0.75-10mm <sup>2</sup>
KVVR	Flexible CU/PVC/PVC Control Cable	2-61	0.5-2.5mm <sup>2</sup>
KVVRP	Flexible CU/PVC/Braided Copper Wire Screen/PVC Control Cable	2-61	0.5-2.5mm <sup>2</sup>
KYJY	CU/XLPE/PE Control Cable	2-61	0.75-10mm <sup>2</sup>

## Packaging Type



Wooden drum with wooden board lagging



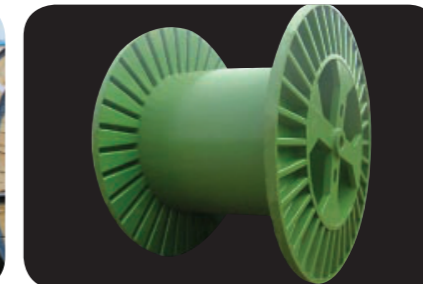
Iron-wooden drum with PE covering



Iron-wooden drum with bamboo board covering



Iron-wooden drum with wooden board lagging



All steel drum



Wrapped PE coil



Shrunked PE coil



Braid coil



Carton box



Carton reel



Plywood reel



Plastic reel