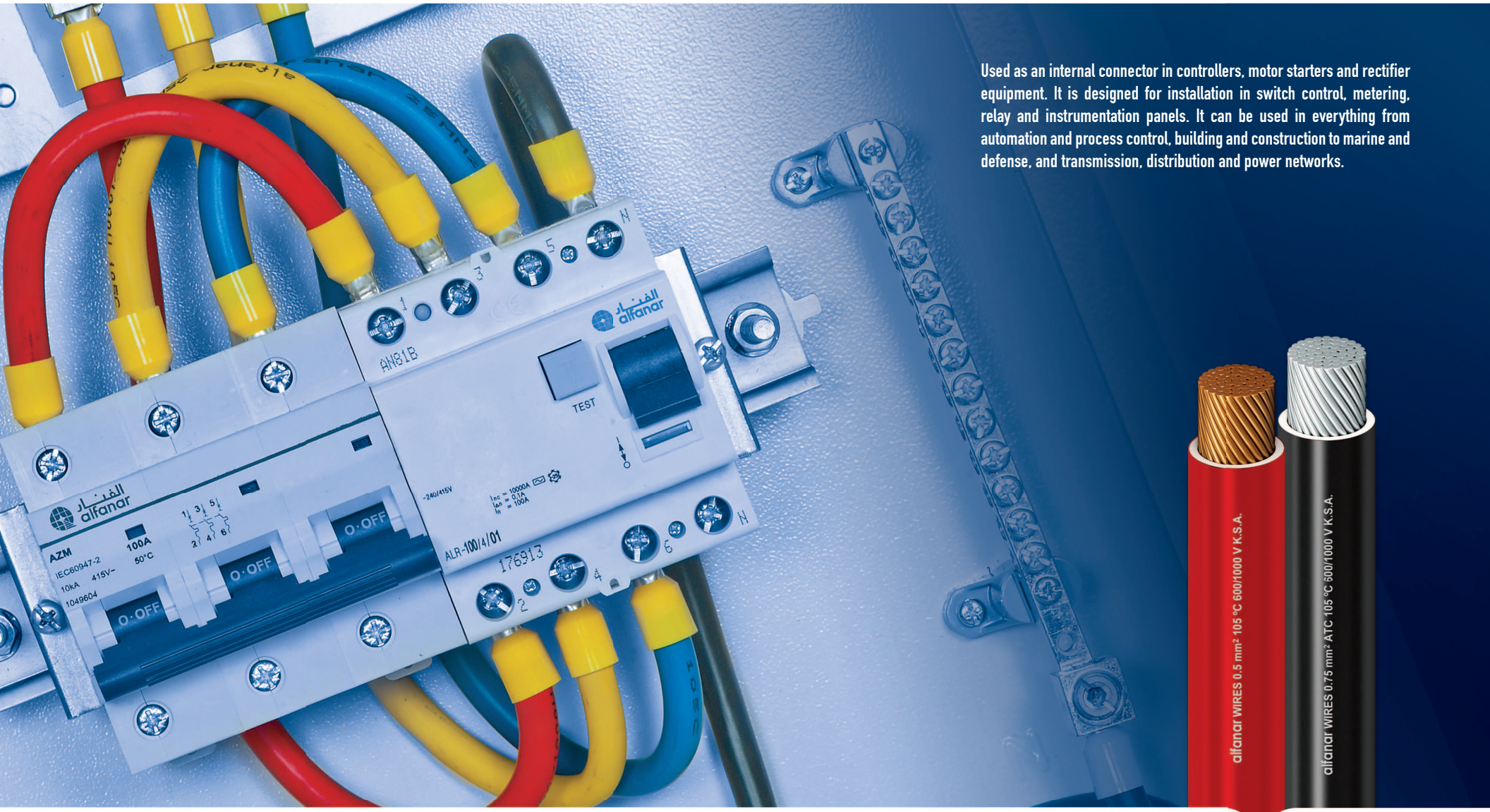
Single Core Non-Sheathed PVC Insulated Cables For Panel Board/Switchgear Applications

Used as an internal connector in controllers, motor starters and rectifier equipment. It is designed for installation in switch control, metering, relay and instrumentation panels. It can be used in everything from automation and process control, building and construction to marine and defense, and transmission, distribution and power networks.



Single Core Non-Sheathed Cable

with Flexible Plain Copper Conductor and PVC Insulation

600/1000 V

APPLICATION

It is suitable for use as an internal connector in controllers, motor starters and rectifier equipment. It is designed for installation in switch control, metering, relay and instrumentation panels. It can be used in everything from automation and process control, building and construction to marine and defense, and transmission, distribution and power networks.

APPLICABLE STANDARDS

alfanar cables are designed and tested to meet or exceed the requirements of BS 6231. However, **alfanar** can also supply a range of alternative designs to meet customer-specified requirements.

CONSTRUCTION

Conductor

Plain annealed flexible copper conductor class 5 as per BS EN 60228 and IEC 60228

Insulation

Type BK

Extruded layer of Polyvinyl chloride (PVC) insulation Type TI1 with temperature rating 70 °C at normal operation as per BS EN 50363-3

Type CK

Extruded layer of Polyvinyl chloride (PVC) insulation Type TI3 with temperature rating 90 °C at normal operation as per BS EN 50363-3

Type CK

Extruded layer of Polyvinyl chloride (PVC) insulation with temperature rating 105 °C at normal operation available on request

Colors

Standard colors are available in black, white, red, blue, green, yellow, yellow/green, pink, violet, orange, brown and gray.

Additional colors are made per request subject to factory minimum order quantities

Flame retardancy

The cables have been tested and approved with the flame performance standards IEC 60332-1-2 and BS EN 60332-1.

Packing

Available in standard length of 100 yards on coil (Other lengths available on request)

TECHNICAL DATA

Conductor		Maximum DC Conductor Resistance at 20 °C	Nominal Insulation Thickness	Approx. Overall Diameter	Approx. Net Weight	Item Code
Size	Cons.					
mm^2	No. x mm	Ohms/km	mm	mm	Kg/km	
0.5	16 x 0.2	39	0.8	2.6	12	C505AA101000X^{a}00BXX^{b}
0.75	24 x 0.2	26	0.8	2.8	15	C506AA101000X^{a}00BXX^{b}
1	32 x 0.2	19.5	0.8	2.9	18	C507AA101000X^{a}00BXX^{b}
1.5	30 x 0.25	13.3	0.8	3.2	23	C508AA101000X^{a}00BXX^{b}
2.5	50 x 0.25	7.98	0.8	3.7	34	C510AA101000X^{a}00BXX^{b}
4	56 x 0.30	4.95	0.8	4.2	50	C512AA101000X^{a}00BXX^{b}
6	84 x 0.30	3.3	0.8	4.6	69	C513AA101000X^{a}00BXX^{b}
10	80 x 0.40	1.91	1.0	6.2	118	C514AA101000X^{a}00BXX^{b}
16	126 x 0.40	1.21	1.0	7.6	180	C515AA101000X^{a}00BXX^{b}
25	193 x 0.40	0.780	1.2	9.1	276	C516AA101000X^{a}00BXX^{b}
35	270 x 0.40	0.554	1.2	10.3	371	C517AA101000X^{a}00BXX^{b}
50	390 x 0.40	0.386	1.4	12.6	544	C518AA101000X^{a}00BXX^{b}
70	545 x 0.40	0.272	1.4	14.6	736	C519AA101000X^{a}00BXX^{b}
95	466 x 0.50	0.206	1.6	17.0	990	C545AA101000X^{a}00BXX^{b}
120	596 x 0.50	0.161	1.6	18.9	1248	C546AA101000X^{a}00BXX^{b}
150	745 x 0.50	0.129	1.8	21.2	1554	C547AA101000X^{a}00BXX^{b}
185	910 x 0.50	0.106	2.0	23.4	1902	C548AA101000X^{a}00BXX^{b}
240	1200 x 0.50	0.0801	2.2	26.9	2500	C549AA101000X^{a}00BXX^{b}

- The above data is approximate and subjected to manufacturing tolerance. We reserve the right to change as a result of product development and/or changes in standard.
- Other sizes can be provided on specific request

X^{a} : Insulation color (see Coding Key on page 74)

XX^{b} : Packing type (see Coding Key on page 74)