

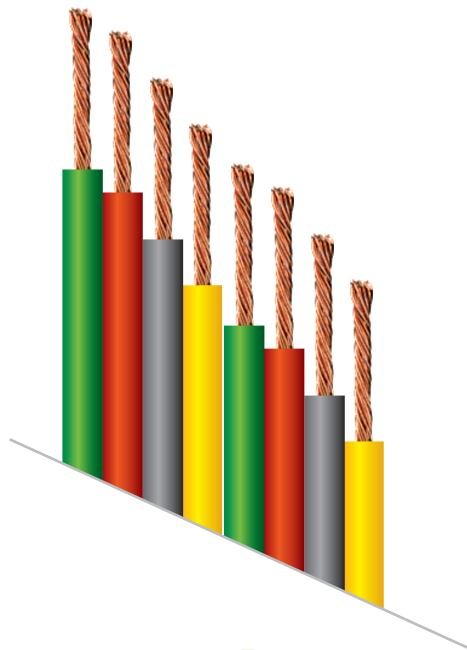


SRINI LINK®

Mfg. of Wires & Cables 
CONNECT YOUR FUTURE

SINGLE CORE POLYVINYL CHLORIDE (PVC) INSULATED FLEXIBLE CABLES

We provide the full range of cables manufactured in accordance with **British Standard BS6231**, including tri-rated cables (or panel wire), also manufactured in accordance to UL 1015 and CSA C22.2. This flame-retardant flexible (class 5) Polyvinyl Chloride (PVC) cable is designed for use in switchgear and panel building. It operates at temperatures of up to 105°C and is available in various colours and sizes.



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SINGLE CORE POLYVINYL CHLORIDE (PVC) INSULATED FLEXIBLE CABLES

Application: Heat resistant, flame retardant cable designed for use in the switch control, relay and instrumentation panels of power switchgear and for purposes such as internal connectors in rectifier equipment, motor starters and controllers. Tri-rated cable is sometimes referred to as BS 6231 cable, panel wire.

Conductor: With Bright-annealed EC grade copper with **99.90 % to 99.97 % purity**, which offer low conductor resistance, lower heating and save the power consumption.

RoHS Insulation & Sheath: The PVC compound formulation is specially developed by keeping view of all the BS 6231 required properties

Technical Data:

Voltage Rating : 600 / 1000V.

Temperature Rating : 90°C (105°C for 15,000 hours)

Minimum Bending Radius : Cable diameter ≤ 8 mm : 4 x outer diameter. Approx. diameter > 8 to 12 mm: 5 x outer diameter.
Approx. diameter > 12 mm: 6 x outer diameter.

Test Voltage : 4000V

British Standard BS6231 is the primary standard which specifies the performance and the construction requirement for single core, non-sheathed electric cables of rated voltage 600/1000V for switchgear and controlgear wiring in PVC insulation including:

Type BK - Class 5 copper conductor (max temperature of 70°C) and PVC type TI 1.

Type CK - Class 5 copper conductor (max conductor temperature of 90°C) and PVC type TI 3.

SINGLE CORE PVC INSULATED FLEXIBLE CABLES

Generally conforming to
BS 6231 TYPE-BK & TYPE-CK

Rated voltage 600/1000 V

Single-core flexible cables (switchgear and controlgear wiring)

Nominal cross-sectional area of conductor	Mean radial thickness of insulation	Resistance Per Km @ 20° C (Max)		Mean overall diameter		Minimum insulation resistance at 70°C	Minimum insulation resistance at 90°C
Sq.mm	mm	Ohms		Lower Limit	Upper Limit	TYPE-BK	TYPE-CK
		Plain Copper	Tinned Copper	mm	mm	MΩ.km	MΩ.km
0.5	0.8	39	40.1	2.4	3.0	0.0161	
0.75	0.8	26	26.7	2.6	3.1	0.0141	
1.0	0.8	19.5	20	2.7	3.3	0.0128	
1.5	0.8	13.3	13.7	3.0	3.6	0.0111	
2.5	0.8	7.98	8.21	3.4	4.1	0.0094	
4.0	0.8	4.95	5.09	3.9	4.8	0.0077	
6.0	0.8	3.3	3.39	4.4	5.3	0.0059	
10	1.0	1.91	1.95	5.7	7.2	0.0058	
16	1.0	1.21	1.24	6.7	9.0	0.0048	
25	1.2	0.78	0.795	8.4	11.5	0.0047	
35	1.2	0.554	0.565	9.7	12.5	0.0040	
50	1.4	0.386	0.393	11.5	15.4	0.0039	
70	1.4	0.272	0.277	13.2	17.5	0.0033	
95	1.6	0.206	0.21	15.1	19.2	0.0032	
120	1.6	0.161	0.164	16.7	21.2	0.0029	
150	1.8	0.129	0.132	18.6	23.9	0.0029	
185	2.0	0.106	0.108	20.6	25.9	0.0029	
240	2.2	0.0801	0.0817	23.5	28.9	0.0028	

Type BK - Class 5 copper conductor (Max temperature of 70°C) and PVC type TI 1.

Technical Specification As per BS 6231					
PVC INSULATED FLEXIBLE CABLE - TYPE BK (Maximum conductor temperature of 70 ⁰ C)					
SR. NO	Description	Unit	Specification	Tolerance	Clause No. BS 6231 & EN 60228
CONDUCTOR DETAIL :- BS EN 60228					
1	Nominal Size	mm ²	As per Customer requirement	-	Table -3 (Page no 10)
2	Material	-	Annealed Plain Copper	-	-
3	Shape /Class		Flexible class-5		
4	Number of wire	no's	-	-	-
5	Dia of Wire	mm	-	± 0.003	Table -3 (Page no 10)
6	Conductor Resistance at 20° c	ohm/km	! / km (max) at 20° c	-	Table -3 (Page no 10)
7	Conductor Annealing test	%	13.5 % (min)		6.1.2
PVC INSULATION :- BS 6231 (TYPE TI 1)					
8	Insulation material		PVC TYPE TI 1		Table -1 (Page no 6)
9	Colour Of Insulation	—	As per Customer requirement	-	-
10	Thickness of Insulation	mm	--	MIN	Table -1 (Page no 6)
11	Dia over insulation	mm	--	MAX	Table -1 (Page no 6)
12	Voltage Withstand of Finish cable.	kv	Take a cable sample of 10 m and 20 m long, immerse in water @ temperature of (20 ± 5) °C for a period of not less than 1 h. Earth the water. apply a test voltage between the conductor and the water. Raise the test voltage gradually to 3 500 V a.c. and maintain it at that value for 5 min.	No break down of insulation shall occur .	10.3 (annex d)
13	Insulation Resistance	ohm	0.0111	MIN	10.4
14	Long term resistance to d.c	ohm	take samples with electrodes in chamber at temp 20±2 ⁰ c and relative humidity 65 ± 5 % for 24 hrs immediately apply voltage of 100 v & 500 v and measure resistance.	-	11.2

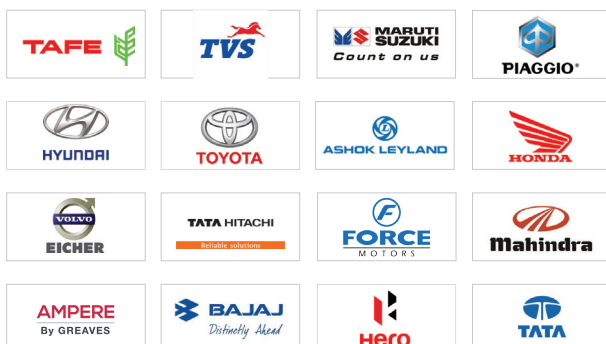
Type CK - Class 5 copper conductor (Max conductor temperature of 90°C) and PVC type TI 3.

Technical Specification As per BS 6231				
PVC INSULATED FLEXIBLE CABLE - TYPE CK (Maximum conductor temperature of 90° C)				
SR. NO	Description	Unit	Specification	Clause no BS 6231 & EN 60228
CONDUCTOR DETAIL :- BS EN 60228				
1	Nominal Size	mm ²	As per Customer requirement	Table -3 (Page no 10)
2	Material	-	Annealed Plain Copper	-
3	Shape /Class		Flexible class-5	
4	Number of wire	no's	-	-
5	Dia of Wire	mm	-	Table -3 (Page no 10)
6	Conductor Resistance at 20° c	ohm/km	! / km (max) at 20° c	Table -3 (Page no 10)
7	Conductor Annealing test	%	13.5 % (min)	6.1.2
PVC INSULATION :- BS 6231 (TYPE TI 3)				
8	Insulation material		PVC TYPE TI 3	Table -1 (Page no 6)
9	Colour of Insulation	—	As per Customer requirement	-
10	Thickness of Insulation	mm	0.80	Table -1 (Page no 6)
11	Dia over insulation	mm	3.60	Table -1 (Page no 6)
12	Voltage Withstand of Finish cable.	kv	Take a cable sample of 10 m and 20 m long, immerse in water @ temperature of (20 ± 5) °C for a period of not less than 1 h. Earth the water. apply a test voltage between the conductor and the water. Raise the test voltage gradually to 3 500 V a.c. and maintain it at that value for 5 min.	10.3 (annex d)
13	Insulation Resistance	ohm	0.0111	10.4
14	Long term resistance to d.c	ohm	take samples with electrodes in chamber at temp 20±2°c and relative humidity 65 ± 5 % for 24 hrs immediately apply voltage of 100 v & 500 v and measure resistance.	11.2

TIER 1 CUSTOMERS



LIST OF OUR END USER CUSTOMERS AUTOMOBILE



PANEL & SWITCH BOARD



SRiNi LiNK

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