

APAR Anushakti is an innovative wire manufactured using Electron Beam Technology, providing a 50% increase in current capacity and superior heat resistance, making it India's safest house wire. It features copper conductors, Twin Screw manufacturing, and Flame Retardant PVC insulation with excellent fire resistance, surpassing IS 694: 2010 standards.



HEAT RESISTANCE
 @105°C

FLAME RETARDANT

MELT-RESISTANT

SHORT-CIRCUIT RESISTANT

ANTI-TERMITE

VERY LOW LEAKAGE

50% MORE CURRENT CARRYING CAPACITY

ENERGY SAVING

TECHNICAL CHARACTERISTICS & STANDARDS

≥ 250°C
 TEMPERATURE INDEX

> 29%
 OXYGEN INDEX

75%
 SMOKE DENSITY (LIGHT ABSORPTION)

20%
 ACID GAS GENERATION

> 50 Years
 SERVICE LIFE

Single Core, unsheathed HR FR PVC Cables for 1100 V as per IS 694					Current Carrying Capacity	
Nominal Area of Copper Conductor / Class of Conductor Sq.mm	Conductor Construction (No./Dia.mm)	Thickness of Insulation (Nominal) mm	Approx Overall Diameter mm	Conductor Resistance (Max) per km @20°C ohms	In Conduit / Trunking amps	Unenclosed – Clipped directly to surface or on cable tray amps
CLASS 5 – FLEXIBLE CONDUCTOR						
Class 5 - 0.5	16/0.2	0.6	2.10	39	6	10
Class 5 - 0.75	24/0.2	0.6	2.20	26	11	16
Class 5 - 1	32/0.2	0.6	2.40	19.5	16	24
Class 5 - 1.5	30/0.25	0.7	2.85	13.3	20	32
Class 5 - 2.5	50/0.25	0.8	3.50	7.98	27	44
Class 5 - 4	56/0.3	0.8	4.00	4.95	36	58
Class 5 - 6	84/0.3	0.8	4.50	3.3	47	74
Class 5 - 10	80/0.4	1.0	6.10	1.91	-	83
Class 5 - 16	126/0.4	1.0	7.30	1.21	-	105
CLASS 2 – STRANDED CONDUCTOR						
Class 2 - 1	7/0.43	0.7	2.70	18.1	17	25
Class 2 - 1.5	7/0.53	0.7	3.00	12.1	21	33
Class 2 - 2.5	7/0.67	0.8	3.60	7.41	29	47
Class 2 - 4	7/0.85	0.8	4.10	4.61	39	61
Class 2 - 6	7/1.04	0.8	4.70	3.08	51	77

CORE	INSULATION	LENGTH	COLOUR
Single Core	HR FR PVC	45 Mtr, 90 Mtr, 100 Mtr & 180 Mtr (Also available in custom sizes)	Red, Green, Blue, Black, White, Yellow (Also available in custom colours)