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Mind rests where peace dwells.
RR Kabel presents wires that are safer, stronger and smarter.

RAM RATNA
GROUP

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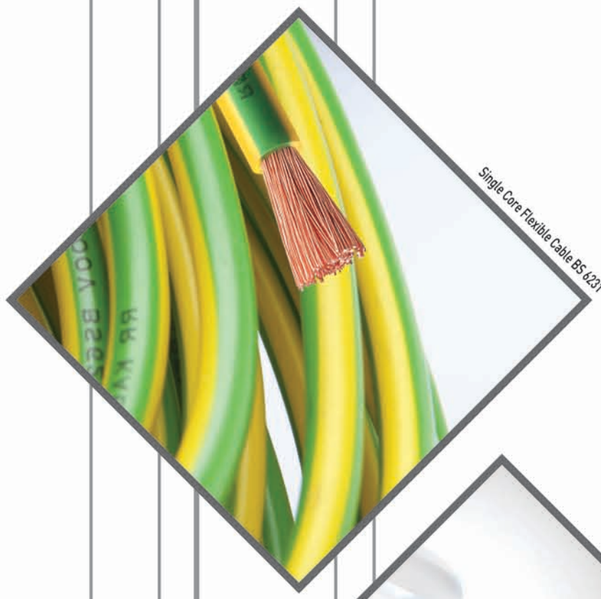
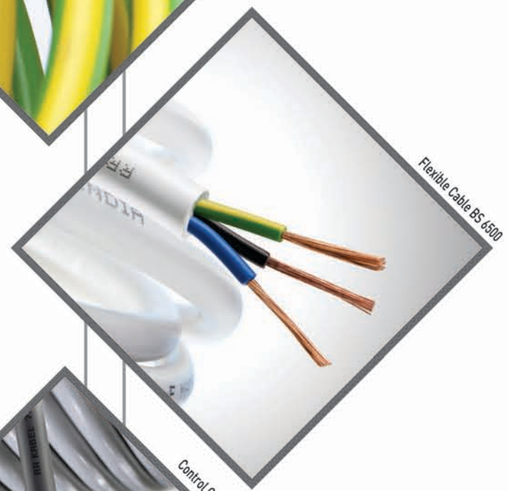
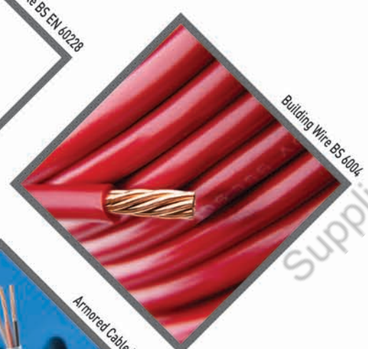
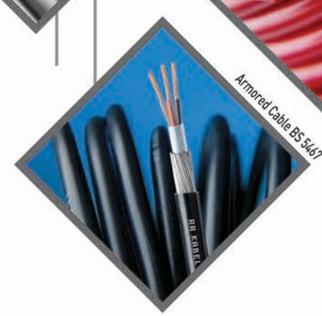
RR KĀBEL
wires without worries









HEAT RESISTANT PVC INSULATED SINGLE CORE FLEXIBLE CABLE BS 6231 / TRI RATED CABLE

CSA certified

UL Certified E254552

Application
High temperature,flame retardant cable designed for use in switch control, relay and instrumentation panels of power switchgear and for purposes such as internal connectors in rectifier equipment, motor starters and controllers.

Conductor
Class 5 flexible plain copper conductor to BS EN 60228:2005 (previously BS6360)

COLOURS AVAILABLE
Black, Red, Blue, Yellow, Green/Yellow, Grey, Brown, Orange, White, Violet, Green, Pink

Temperature Rating
BS6231 : 90°C
UL, CSA : 105°C

STANDARDS
BS6231 Type CK,
UL Subj.758,
CSA c.22.2 No. 210-05

INSULATION
PVC (Polyvinyl Chloride)

VOLTAGE RATING
BS6231: 600/1000V
UL, CSA : 600V

MINIMUM BENDING RADIUS
6 x overall diameter

Single Core PVC Insulated Unsheathed Type (NYAF)

Dimensions

No. of Cores x Nominal Cross Sectional Area mm²	AWG	Nominal Thickness of Insulation (mm)	Nominal Overall Diameter (mm)	Nominal Weight Kg/Km	UL Style Number	Max. Strand Diameter (mm)	Max DC Resistance at 20°C (Ω/km)
1 x 0 .5	22	0.80	2.50	11	1015	0.21	39.0
1 x 0.75	20	0.80	2.75	15	1015	0.21	26.0
1 x 1	18	0.80	2.90	18	1015	0.21	19.5
1 x 1.5	16	0.80	3.15	23	1015	0.26	13.3
1 x 2.5	14	0.80	3.60	35	1015	0.26	7.98
1 x 4	12	0.80	4.15	48	1015	0.31	4.95
1 x 6	10	0.80	4.70	69	1015	0.31	3.30
1 x 10	8	1.15	6.40	117	1015	0.41	1.91
1 x 16	6	1.55	8.45	191	1015	0.41	1.21
1 x 25	4	1.55	9.60	281	1015	0.41	0.78
1 x 35	2	1.55	10.90	389	1015	0.41	0.5335
1 x 50	1	2.10	13.30	560	1015	0.41	0.386
1 x 70	2/0	2.10	15.30	774	1015	0.51	0.2650
1 x 95	3/0	2.10	17.10	991	1015	0.51	0.206
1 x 120	4/0	2.10	18.45	1231	1015	0.51	0.161
1 x 150	250	2.45	21.00	1534	1015	0.51	0.129
1 x 185	350	2.45	22.90	1878	1015	0.51	0.1011
1 x 240	450	2.45	25.60	2381	1015	0.51	0.0787

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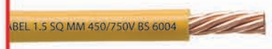
PVC INSULATED BUILDING WIRE BS 6004
H05V-U / H07V-U / H07V-R



CONDUCTORS
Plain annealed copper conductor
1 mm² to 2.5 mm² solid Class 1
1.5 mm² to 630 mm² stranded Class 2 complying with
BS EN 60228, HD 383, I

TEMPERATURE RATING
Fixed application -15° C TO +70° C

INSULATION
PVC (Polyvinyl chloride) complying BS EN 50363-3, HD 21.1, IEC 60227-1, SABS 1411-2

COLOURS AVAILABLE
RED, YELLOW, BLACK, BLUE, BROWN, YELLOW/GREEN, GREY, WHITE
Other colours available on request.

APPLICATION
*Suitable for power and lighting circuits and building wiring.
*Suitable for use in semi-flush exposed conduits, embedded conduits and in closed installation ducts.
*Ideal for the internal wiring of appliance

STANDARDS
BS 6004, DIN VDE 0281-3, NF C 32-201-3
SABS 1507-2, SS 358: Part 3

HARMONISED CODE DESIGNATION
1 mm² solid wire H05V-U
1.5 mm² and 2.5 mm² solid wire H07V-U
1.5 mm² to 630 mm² stranded wire H07V-R

VOLTAGE RATING
1 sq.mm 300 / 500 V
1.5 sq.mm to 630 sq.mm - 450 / 750 V

MINIMUM BENDING RADIUS
Upto 10 mm² : 3 x Overall diameter.
16 & 25 mm²: 4 x Overall diameter.
Above 25 mm² : 5 x Overall diameter.

Single Core PVC Insulated Unsheathed TYPE (NYA)

Dimensions

Nominal Cross Section Area (Sq.mm)	Conductor Details		Nominal Insulation Thickness (mm)	Nominal Overall Diameter (mm)	Approx. net Weight Kg/Km
	No. of Strands	Max DC Resistance at 20°C (Ω/km)			
1	1	18.1	0.6	2.4	14
1.5	1	12.1	0.7	2.8	20
1.5	7	12.1	0.7	3.0	19
2.5	1	7.41	0.8	3.4	32
2.5	7	7.41	0.8	3.6	33
4	7	4.61	0.8	4.2	50
6	7	3.08	0.8	5.1	74
10	7	1.83	1.0	6.7	126
16	7	1.15	1.0	7.8	184
25	7	0.727	1.2	9.6	295
35	7	0.524	1.2	10.0	375
50	19	0.387	1.4	11.7	510
70	19	0.268	1.4	13.5	710
95	19	0.193	1.6	15.8	950
120	37	0.153	1.6	17.5	1240
150	37	0.124	1.8	19.5	1530
185	37	0.0991	2.0	21.3	1800
240	37	0.0754	2.2	25.0	2500
300	61	0.0601	2.4	27.2	2990
400	61	0.0470	2.6	31.0	3860
500	61	0.0366	2.8	34.5	4900
630	91	0.0283	2.8	39.0	6370

Note:- Size 1.5 to 150 Sq.mm BASEC Approved
Size 1 to 4 Sq.mm VDE Approved

Size 1 to 120 Sq.mm NF – USE Approved
For other sizes kindly contact for details

THERMOPLASTIC INSULATED HALOGEN FREE CABLES (LSZH)
LOW SMOKE ZERO HALOGEN

CONDUCTOR
Class 5 flexible plain copper conductor to BS EN 60228 : 2005 (previously BS6360)

TEMPERATURE RATING
0° C to +70° C

INSULATION
LSZH (Low Smoke Zero Halogen) thermoplastic insulation

INSULATION COLOR
Black, Blue, Green/Yellow, Red, Yellow, White,Violet, Brown, Grey, Orange, Pink

APPLICATION
*In pipes or ducts and internal wiring of aplliances with maximum operating temperature of 70° C, generally in areas (such as public and government buildings) where smoke and toxic fumes may cause a threat tolife and equipment.
*The cable produce non corrosive gases when burnt which is particularly nimportant where electronic equipment is installed.

STANDARDS
BS7211, CENELEC HD22.9, IEC 60332-3

VOLTAGE RATING
0.5mm² to 1.0mm² : 300/500V
1.5mm² and above : 450/750V

MINIMUM BENDING RADIUS
Up to 35mm² : 3 X overall diameter
50mm² and above : 4 X overall diameter

Dimensions

No. of Cores x Nominal Cross sectional area (1 X mm²)	Nominal Thickness of Insulation (mm)	Nominal Overall Diameter (mm)	Nominal Weight Kg / Km
1 x 0 .50	0.6	2.1	8.5
1 x 0.75	0.6	2.3	11
1 x 1.0	0.6	2.4	16
1 x 1.50	0.7	2.9	21
1 x 2.50	0.8	3.5	33
1 x 4.00	0.8	4.1	47
1 x 6.00	0.8	4.8	70
1 x 10.00	1.0	6.2	118
1 x 16.00	1.0	7.8	178
1 x 25.00	1.2	9.6	273
1 x 35.00	1.2	10.5	363
1 x 50.00	1.4	13.0	533
1 x 70.00	1.4	15.0	713
1 x 95.00	1.6	17.5	960
1 x 120.00	1.6	18.3	1182
1 x 150.0	1.8	20.5	1466
1 x 185.0	2.0	23.0	1828
1 x 240.0	2.2	25.5	2320

Conductors

Class 5 flexible Copper Conductors for Single Core and Multi-Core cables

Norminal Cross Sectional Area (mm²)	Maximum Diameter of Wires in Conductor mm	Maximum Resistamce of Conductor at 20°C
0.50	0.21	39.00
0.75	0.21	26.00
1.00	0.21	19.50
1.50	0.26	13.30
2.50	0.26	7.98
4.00	0.31	4.95
6.00	0.31	3.30
10.00	0.41	1.91
16.00	0.41	1.21
25.00	0.41	0.78
35.00	0.41	0.554
50.00	0.41	0.386
70.00	0.51	0.272
95.00	0.51	0.206
120.00	0.51	0.161
150.00	0.51	0.129
185.00	0.51	0.106
240.00	0.51	0.0801

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