MANGOCAB®

Wires & Cables

The Real Taste of Quality

Mangocab Cables an ISO 9001 : 2015 Certified & M.S.M.E. Registered Company Manufacturing **"MANGOCAB"** Make/Brand PVC/XLPE Insulated, Copper Conductor Low Tension Electrical Wires & Cables. Emerged with an objective of providing services to growing requirement for high quality customized cables with highest standard of precision and reliability in products with assured quality and safety. We also provide you cost-effective and quality solutions for various electrical connectivity as per your requirement and up to your mark.

Our Team has more than 23 years working experience, Technical Expertise & Specializatio in manufacturing Instrumentation, Fire Alarm / Fire Survival, Power, Flexible & Co-Axial Cables etc. These cables can be useable in industries like building automation, security systems, Power, Steel, Cement & infrastructure. The unit has also built its capacity to design and manufacturing tailor made cables for different aspects. We are highly equipped full in house testing facility to test cables as per ISI and various International standards. The unit extrudes PVC / XLPE & PE of all grades. The high standard of product through careful selection of raw material and strict test quality control at every stage of manufacturing.

Our Infrastructure is equipped with the International standard equipments. Being a small unit, we function as a well knitted team.

Our aim / objective / mission is to seek more proficient and effective ways to manufacture cables consistently meet our customer's needs and satisfaction. Our **Mission** is to give our customers the assurance about the best quality and best services.

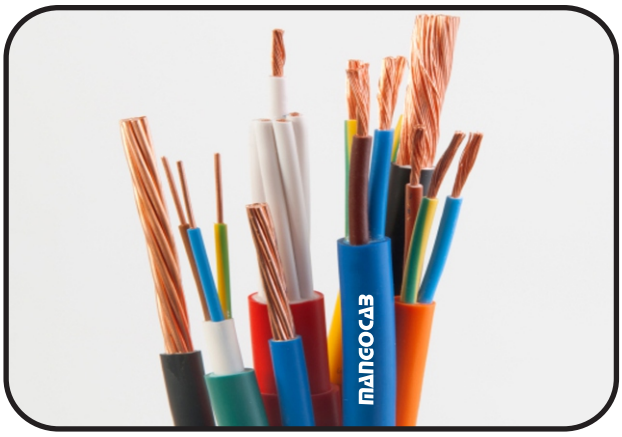
Marketing Mantram of "**Mangocab"** : **4Ps.** : **1. Product** **2. Price** **3. Performance** **4. Promotions**

HOUSE WIRE

"Mangocab" Single core solid / stranded bright annealed (class-I & II) copper conductor, PVC insulated unsheathed cables for 450/750/1100 Volts, Generally confirming to IS : 694 : 2010 (Revd) (1 & 2)

Area sq.mm	No of Strand Dia of Wires	Insulation Thickness mm	Overall Dia. (approx) mm	DC Resistance At 20°C / KM max.	Current Rating Amp.
1.0	1 / 1.12	0.70	2.60	18.1	10.1
1.5	1 / 1.38 7/ 0.53	0.70	2.90 3.20	12.1	17.0
2.5	1 / 1.78 7 / 0.68	0.80	3.40 3.80	7.41	24.0
4.0	1 / 2.24 7 / 0.85	0.80	3.90 4.20	4.61	32.0
6.0	1 / 2.78 7 / 1.04	0.80	4.40 4.80	3.08	40.0
10.0	7 / 1.35	1.00	6.10	1.83	57.0
16.0	7 / 1.70	1.00	7.20	1.15	76.0
25.0	7 / 2.14	1.20	8.90	0.727	103.0
35.0	7 / 2.52	1.20	10.0	0.524	128.0
50.0	7 / 3.0 19 / 1.83	1.40	11.9 12.2	0.387	156.0
70.0	19 / 2.16	1.40	13.8	0.268	200.0
95.0	19 / 2.52	1.60	16.0	0.193	251.0

MANGOCAB®
Wires & Cables



Panel Wire, Household Wire, Flexible Cable

FLEXIBLE CABLES

Applicable Standard : IS 694/BS 6004/BS 2465

Type & Size : Single core-sheathed/ unsheathed from 0.5 sqmm to150 sqmm. multi core-from 0.5 sqmm to 4 sqmm.

Construction : **Conductor**-Multiy Stranded / Flexible. **Outer Sheath** - General Purpose PVC Flame - Retardant Low Smoke (FRLS) | **Insulation** - Type A PVC Flame-Retardant Low Smoke (FRLS) Heat Resistance (HR)

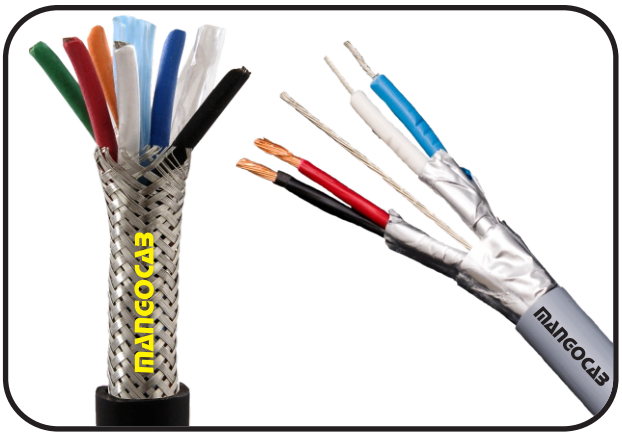
Applications : Control Panels, Machinery, Building Wiring, Household Wiring etc.

Plain Copper Conductor PVC Insulated Un-Sheathed 450/750/1100V Single Core Cable for Panel board wiring Generally Conforming to IS 694 : 2010 (Revd) (1 & 2)

Area Sq.mm.	No of Strand Dia of Wires	Conductor dia in mm Approx	Insulation Thickness Nominal mm.	Cable Dia Approx mm.	Max DC Resistance ohm / km at 20°	Current Rating in Amp.
0.50	16/0.2	0.94	0.6	2.2	39.00	5
0.75	24/0.2	1.20	0.6	2.5	26.00	8
1.00	32/0.2	1.34	0.6	2.6	19.50	13
1.50	48/0.2	1.64	0.6	2.9	13.30	17
2.50	80/0.2	2.08	0.7	3.5	7.98	24
4.00	56/0.3	2.61	0.8	4.3	4.95	30

Plain Copper Conductor PVC Insulated & Sheathed 450/750/1100V Multi-Core Flexible Cables Generally Conforming to IS 694 : 2010 (Revd) (1 & 2)

Area Sq. mm	No of Strand Dia of Wires	Cond. Dia mm	Insu. Thickness Nominal mm	Core dia mm	Max DC Resistance Ohm / km at 20° C	Current Rating Amp
0.50	16/0.2	0.94	0.6	2.2	39.00	5
0.75	24/0.2	1.20	0.6	2.4	26.00	8
1.00	32/0.2	1.34	0.6	2.6	19.50	13
1.50	30/0.25	1.64	0.6	2.9	13.30	17
2.50	50/0.25	2.08	0.7	3.5	7.98	24
4.00	56/0.3	2.61	0.8	4.2	4.95	30
6.0	84/0.30	3.40	0.8	5.1	3.30	38
10.0	80/0.4	4.30	1.00	6.5	1.91	52
16.0	125 / 0.4	5.60	1.00	7.8	1.21	70
25.0	196 / 0.4	6.90	1.20	9.3	0.78	88
35.0	276 / 0.4	8.20	1.20	10.8	0.554	110
50.0	396 / 0.4	10.0	1.40	13.0	0.386	145
70.0	354 / 0.5	12.0	1.40	15.6	0.272	215
95.0	484 / 0.5	14.0	1.60	18.0	0.206	260
120.0	608 / 0.5	15.8	1.60	20.2	0.161	305



MANGOCAB®
Wires & Cables

INSTRUMENTATION CABLES

Size mm²	No. of Strands	No. of Cores Description	2 Core		3 Core		4 Core		6 Core		10 Core		20 Core	
			Shielded Unarmed	Shielded Armd	Shielded Unarmed	Shielded Armd	Shielded Unarmed	Shielded Armd	Shielded Unarmed	Shielded Armd	Shielded Unarmed	Shielded Armd	Shielded Unarmed	Shielded Armd
0.5	16/0.2	Insulation Thickness mm	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
		Inner Sheath Thickness mm	0.5	0.8	0.5	0.8	0.5	0.8	0.9	0.9	0.9	1.1	1.1	1.2
		Armoure Wire Dia mm	----	0.9	----	0.9	----	0.9	----	0.9	----	0.9	----	4x0.8
		Outer Sheath Thickness mm	0.80	1.30	0.80	1.30	0.80	1.30	0.90	1.40	1.10	1.50	1.20	1.60
		Overall Dia (approx.) mm	7.0	10.4	7.3	10.7	7.9	11.3	10.1	12.9	12.7	15.7	16.1	18.7
0.75	24/0.2	Insulation Thickness mm	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
		Inner Sheath Thickness mm	0.5	0.8	0.5	0.8	0.5	0.9	0.9	0.9	0.9	1.1	1.1	1.2
		Armoure Wire Dia mm	—	0.9	—	0.9	—	0.9	—	0.9	—	0.9	—	4x0.8
		Outer Sheath Thickness mm	0.8	1.3	0.8	1.3	0.9	1.4	0.9	1.4	1.1	1.5	1.2	1.6
		Overall Dia (approx.) mm	7.3	10.7	7.7	11.1	8.3	11.9	10.7	13.5	13.5	16.5	17.2	19.8
1.0	32/0.2	Insulation Thickness mm	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
		Inner Sheath Thickness mm	0.5	0.8	0.5	0.8	0.5	0.8	0.9	0.9	0.9	1.1	1.1	1.2
		Armoure Wire Dia	—	0.9	—	0.9	—	0.9	—	0.9	—	4x0.8	—	4x0.8
		Outer Sheath Thickness mm	0.8	1.3	0.8	1.3	0.8	1.4	0.9	1.4	1.1	1.5	1.2	1.6
		Overall Dia (approx.) mm	7.8	11.2	8.2	11.6	8.9	12.5	11.4	14.2	14.4	17.2	18.9	21.5
1.5	48/0.2	Insulation Thickness mm	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
		Inner Sheath Thickness mm	0.5	0.8	0.5	0.9	0.5	0.9	0.9	1.1	0.9	1.2	1.1	1.3
		Armoure Wire Dia mm	—	0.9	—	0.9	—	0.9	—	0.9	—	4x0.8	—	4x0.8
		Outer Sheath Thickness mm	0.8	1.4	0.9	1.4	0.9	1.4	1.1	1.4	1.2	1.6	1.3	1.7
		Overall Dia (approx.) mm	8.3	11.9	8.9	12.5	9.7	13.3	12.5	15.3	15.5	18.5	19.9	22.7

NOTE : i) Manufacturing capacity upto 48 pairs.
ii) Pairs, Triad and Quade with multi cores with individual or overall shielding.

MANGOCAB®
Wires & Cables

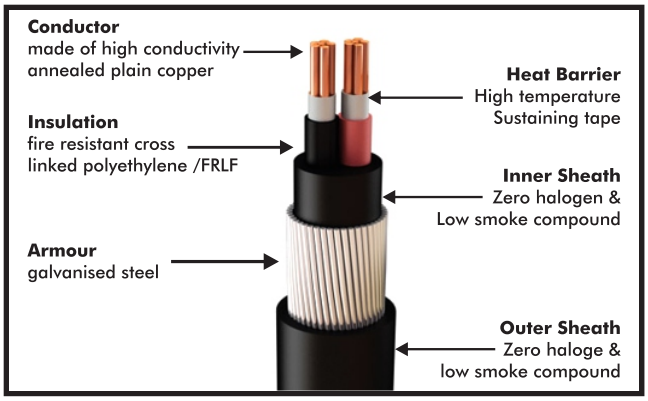
CONSTRUCTION DETAILS

Standard	:	(BS 5308 Part I & Part II)
Conductor	:	(IS 8130) High Conductivity Electrolytic Grade Annealed bare/Tinned Copper . Solid/ Stranded/ Multi Stranded Conductor.
Insulation	:	(IS 5831) : General Purpose PVC (Type A, B & C) HR/ FR/ LSZH/ PE Compound, or as per Customer Specification.
Colour Coding	:	(Pair/Triad/Quade) Either colour coded or Number printed , coloured Ring marked or as per customer requirement.
Laying of Pair/ Triad /Quade	:	Pair/ Triad/Quade are laid up with suitable lay. Polyester Film/ Melenex Tape is provided to bind up laid upair/Triad/Quade.
Shielding / Screening	:	A Thin Layer of Alluminum Foil bonded to Polyester Film / Tape, 100% Coverage & 25% Overlap with Annealed Tinned Copper Drain Wire is installed to provide continuous contact with the shield/Screen and allow to connection to ground. Tinning the Drain wire reduces galvanic corrosion between drain and the shield/Screen.
Inner Sheath	:	(IS 5831) : Type " C" (PVC) HR / FRLS The laid up pair/Triad/Quad after shielding/Screening are provided with an inner sheath. This may be either Extruded Inner Sheath or wrap with PVC Tape.
Armouring	:	(IS 3975) Armouring is applied over inner sheath, it may consist of Galvanized Round Steel wire or Galvanized Flat Steel strips.
Outer Sheath	:	(IS 5831) : PVC / HR / FRLS Outer Sheth is applied over Armouring. The Colour of Outer sheaths is generally Black / Blue / Red /Gray. The Sheath Material may be General purpose PVC/HR/ FRLS/LSZH/ZHFR Compound.
Voltage Grade	:	300 / 500 / 1100 V
Application	:	Data Transmission, Process Control Systems, Communications systems etc.
Range	:	0.5/ 0.75/1.0/1.5 SQ MM.

FIRE ALARM CABLES

CONSTRUCTION DETAILS

Standard	:	(IS 1554 Part-1 OR BS 5308 Part II)
Conductor	:	(IS 8130) High Conductivity Electrolytic Grade Annealed bare/Tinned Copper. Solid/ Stranded/ Multi Stranded Conductor.
Insulation	:	(IS 5831) : Heat Resistant PVC/ HR/ FRLS
Laying of Pair/ Triad /Quad	:	Pair/ Triad/Quad are laid up with suitable lay. Polyester Film/ Melenex Tape is provided to bind up laid up pair/Triad/Quad.
Inner Sheath	:	(IS 5831) : FR PVC/FRLS PVC/LSZH/ZHFR
Armouring	:	(IS 3975) Armouring is applied over inner sheath, it may consist of Galvanized Round Steel wire or Galvanized Flat Steel strips.
Outer Sheath	:	(IS 5831) : FRLS PVC/ LSZH/ZHFR. The Colour of Outer sheaths is generally Red.
Voltage Grade	:	1100 V
Application	:	Building Automation Systems : High rise Buildings, Hospitals, Shopping Malls, Airpots, Power Plants, Steel Plants, Cement Plants, Chemical & Processing, Integrated Building Management Systems (IBMS) Industries etc.
Range	:	0.5/ 0.75/1.0/1.5 SQ MM



STANDARD : BS 6387 : 1994 IEC 60331-21 FIRE SURVIVAL CABLES

The Construction of Fire Survival cables are different from the ordinary Fire Alarm cables. The Copper Conductor is wrapped with a specially designed heat barrier High Temperature Sustaining tape & fire resistant insulation layer is covered over heat barrier, which resists the fire to reach conductor surface. The cable continues to remain into operation at high temperatures like 750°C and 950°C as per various conditions of operation and applications.

Circuit Integrity Test : as per BS 6387 :1994 The Test is carried out on the cable operation on load and burning at temperature of 750°C for 2 hours or 950°C For 3hours. The cable is put on clamps above the fire burner of high flames. The power supply is connected to one end of the cable at rated voltage and the load is connected to other end. Fire applied for 3 hours and during this period and the circuit integrity must be uninterrupted. After the 3 hours, the fire and power is switched off. The cable should report as usual when energized again after a gap of 12 hours.

Conductor : (IS 8130) High Conductivity electrolytic Grade Annealed bare/Tinned Copper. Solid/ Stranded/ Multi Stranded Conductor.

Fire Barrier : High Temperature Sustaining Tape.

Insulation : (IS 5831) : Heat Resistant PVC/ /XLPE/ HR/ FRLS

Laying of Pair/ Triad /Quad : Pair/ Triad/Quad are laid up with suitable lay. Polyester Film/ Melenex Tape is provided to bind up laid up pair/Triad/Quad.

Inner Sheath : (IS 5831) : FR PVC/FRLS PVC/LSZH/ZHFR

Armouring : (IS 3975) Armouring is applied over inner sheath, it may consist of Galvanized Round Steel wire or Galvanized Flat Steel strips.

Outer Sheath : (IS 5831) : FRLS PVC/ LSZH/ZHFR.
The Colour of Outer sheaths is generally Red.

Voltage Grade : 1100 V

Application : Building Automation Systems : High rise Buildings, Hospitals, Shopping Malls, Airpots, Power Plants, Steel Plants, Cement Plants, Chemical & Processing, Integrated Building Management Systems (IBMS) Industries etc.

Range : 0.5/ 0.75/1.0/1.5 SQ MM

POWER CABLES

MANGOCAB® Wires & Cables

"Mangocab" Manufacturers high quality heavy duty power cable.

CONSTRUCTION DETAILS :

Standard : (IS 1554 Part-1) 1100 Volts Grade

Conductor : (IS 8130) High Conductivity Electrolytic grade Plain bright Annealed Copper Solid/ Stranded Conductors.

Insulation : (IS 5831) : General Purpose PVC / XLPE / HR / FRLS Grade Compound.

Inner Sheath : (IS 5831) : Inner sheath shall be done by extrusion or PVC Tape binding that laid up cores shall not loose and prevent to water entering.

Armouring : (IS 3975) Galvanized Steel Armour wire/ Flat Strip provides mechanical support and also for earthling. For Single Core Cables Non Magnetic Material is Used that to Reduce magnetic Losses.

Outer Sheath : (IS 5831) : Extruded ST2 PVC / FRLS PVC

Voltage Grade : 1100 V

Application : Thermal Power stations, Petrochemical Refineries, Steel & Cement Plants. Power Distribution Systems, Digital Control and Monitoring ,Information Systems & Building Automation Systems i.e. High rise Buildings, Hospitals, Shopping Malls, Airports, etc.

POWER CABLE - TWO CORE

Nominal Cross Sectional Area in mm^2 & Cores	Nominal Insulation Thickness mm	Min. Inner Sheath Thickness mm	Armour		Min. Outer Sheath Thickness mm	Overall Diameter Approx. mm	Weight of Cable Approx. Kg/Km	Max. DC Resist. At 20°C /Km	Current Ratings		
			GI Rd. Wire	GI Flat Strip 4x0.8mm					Direct in Ground Amps	In Ducts Amps.	In Air Amps.
2.5 x 2	0.9	0.30	1.4	---	1.24	13.8	350	12.1	25	21	21
4.0 x 2	1.0	0.30	1.4	---	1.24	15.2	425	7.41	32	27	27
6.0 x 2	1.0	0.30	1.4	---	1.24	16.6	475	4.61	40	34	35
10.0 x 2	1.0	0.30	1.4	---	1.24	18.6	565	3.08	55	45	47
16.0 x 2	1.0	0.30	---	0.8	1.40	17.0	500	1.91	70	58	59
25.0 x 2	1.2	0.30	---	0.8	1.40	19.5	650	1.20	90	76	78
35.0 x 2	1.2	0.30	---	0.8	1.40	21.0	750	0.868	110	92	99
50.0 x 2	1.4	0.30	---	0.8	1.40	24.0	950	0.641	135	115	125
70.0 x 2	1.4	0.30	---	0.8	1.56	26.0	1150	0.443	160	140	150
95.0 x 2	1.6	0.40	---	0.8	1.56	29.5	1460	0.320	190	170	185
120.0 x 2	1.6	0.40	---	0.8	1.56	31.5	1670	0.253	210	190	210
150.0 x 2	1.8	0.40	---	0.8	1.72	34.5	2010	0.206	240	210	240
185.0 x 2	2.0	0.50	---	0.8	1.88	38.5	2450	0.164	275	240	275

MANGOCAB®
Wires & Cables

POWER CABLES - THREE CORE

Nominal Cross sectional Area in mm2 & Cores	Nominal Insulation Thickness mm	Min Inner Sheath Thickness mm	Armour		Min. Outer Sheath Thickness mm	Overall Diameter Approx. mm	Weight Of Cable Approx Kg/Km	Max. DC Resist. At 20°C /Km	Current Ratings		
			GI Rd. Wire	GI Flat Strip 4xo.8mm					Direct in Ground Amps	In Ducts Amps.	In Air Amps.
2.5 x 3	0.9	0.30	1.4	----	1.24	14.6	400	12.1	21	18	18
4.0 x 3	1.0	0.30	1.4	----	1.24	16.0	480	7.41	28	23	23
6.0 x 3	1.0	0.30	1.4	----	1.24	17.6	560	4.61	35	30	30
10.0 x 3	1.0	0.30	1.4	----	1.40	19.5	675	3.08	46	39	40
16.0 x 3	1.0	0.30	----	0.8	1.40	20.0	650	1.91	60	50	51
25.0 x 3	1.2	0.30	----	0.8	1.40	22.5	800	1.20	76	63	70
35.0 x 3	1.2	0.30	----	0.8	1.40	24.5	950	0.868	92	77	86
50.0 x 3	1.4	0.30	----	0.8	1.56	26.5	1200	0.641	110	95	105
70.0 x 3	1.4	0.40	----	0.8	1.56	31.0	1500	0.443	135	115	130
95.0 x 3	1.6	0.40	----	0.8	1.56	35.0	1900	0.320	165	140	155
120.0 x 3	1.6	0.40	----	0.8	1.72	38.0	2240	0.253	185	155	180
150.0 x 3	1.8	0.50	----	0.8	1.88	42.0	2700	0.206	210	175	205
185.0 x 3	2.0	0.50	----	0.8	1.88	46.0	3200	0.164	235	200	240

POWER CABLES - THREE & HALF CORE

Nominal Cross sectional Area in mm2 & Cores	Nominal Insulation Thickness mm	Min Inner Sheath Thickness mm	Armour		Min. Outer Sheath Thickness mm	Overall Diameter Approx. mm	Weight Of Cable Approx Kg/Km	Max. DC Resist. At 20°C /Km	Current Ratings		
			GI Rd. Wire	GI Flat Strip 4xo.8mm					Direct in Ground Amps	In Ducts Amps.	In Air Amps.
25.0X3.5	1.2 / 1.0	0.30	----	0.8	1.40	25.0	900	1.20 / 1.91	76	63	70
35.0 X 3.5	1.2 / 1.0	0.30	----	0.8	1.40	27.0	1030	0.868 / 1.91	92	77	86
50.0 X 3.5	1.4 / 1.2	0.30	----	0.8	1.56	31.0	1350	0.641 / 1.20	100	95	105
70.0 X 3.5	1.4 / 1.2	0.40	----	0.8	1.56	34.0	1725	0.443 / O.868	135	115	130
95.0 X 3.5	1.6 / 1.4	0.40	----	0.8	1.56	39.0	2130	0.320 / 0. 641	165	140	155
120.0 X 3.5	1.6 / 1.4	0.50	----	0.8	1.72	42.0	2580	0. 253 / O.443	185	155	180
150.0 X 3.5	1.8 / 1.4	0.50	----	0.8	1.88	46.5	3050	0.206 /0. 443	210	175	205
185.0 X 3.5	2.0 / 1.6	0.50	----	0.8	2.04	51.5	3650	0.164 / 0.320	285	200	240

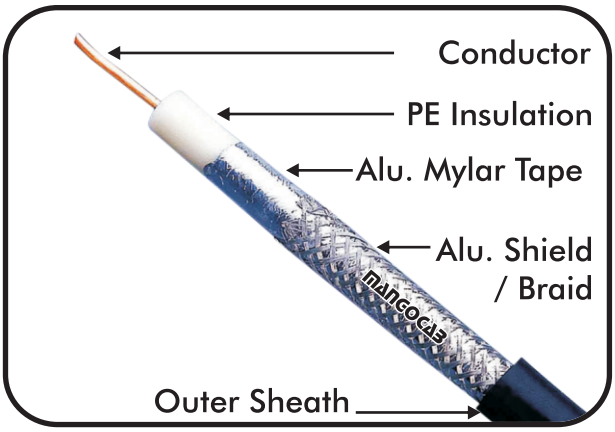
POWER CABLES - FOUR CORE

Nominal Cross sectional Area in mm2 & Cores	Nominal Insulation Thickness mm	Min Inner Sheath Thickness mm	Armour		Min. Outer Sheath Thickness mm	Overall Diameter Approx. mm	Weight Of Cable Approx Kg/Km	Max. DC Resist. At 20°C /Km	Current Ratings		
			GI Rd. Wire	GI Flat Strip 4xo.8mm					Direct in Ground Amps	In Ducts Amps.	In Air Amps.
2.5 x 4	0.9	0.30	1.4	----	1.24	16.5	480	12.1	21	18	18
4.0 x 4	1.0	0.30	1.4	----	1.24	18.0	550	7.41	28	23	23
6.0 x 4	1.0	0.30	1.4	----	1.24	19.5	650	4.61	35	30	30
10.0 x 4	1.0	0.30	----	0.8	1.40	20.0	660	3.08	46	39	40
16.0 x 4	1.0	0.30	----	0.8	1.40	23.0	750	1.91	60	50	51
25.0 x 4	1.2	0.30	----	0.8	1.40	26.5	950	1.20	76	63	70
35.0 x 4	1.2	0.30	----	0.8	1.40	29.0	1165	0.868	92	77	86
50.0 x 4	1.4	0.40	----	0.8	1.56	33.5	1540	0.641	110	95	105
70.0 x 4	1.4	0.40	----	0.8	1.56	37.0	1800	0.443	135	115	130
95.0 x 4	1.6	0.40	----	0.8	1.72	42.0	2400	0.320	165	140	155
120.0 x 4	1.6	0.50	----	0.8	1.88	46.0	2800	0.253	185	155	180
150.0 x 4	1.8	0.50	----	0.8	1.88	50.5	3350	0.206	210	175	205
185.0 x 4	2.0		----	0.8	2.04	55.5	4000	0.164	235	200	240

NOTE : We also manufacture XLPE (Cross Link Polyethylene) Cable for LT grade according to ISI : 7098 Part - 1

Technical Data for 1100 V Grade Armoured Control cable Tpe YWY and YF conforming to IS: 1554-I/88																
Type	No. of Cores & cross Sectional Area (No. x mm2)	Conductor (Cu) Min no. of wires (No.)	Thickness of PVC Insulation (Nom.) (mm)	Thickness of Common Covering Min Extruded/ wrapped (mm)	Armouring		Thickness of PVC outer Sheath (Min) (mm)	Approx O.D. (mm)	Approx Net weight of cable (kg/km)	Max D.C Resistance at 20° C (?/km)	Approx A.C. Resistance at operating Temp. 70° C (?/km)	Approx Reactance at 50 Hz (?/km)	Approx Capacitance per phase (uF/km)	Direct in ground (Amps)	Current Rating in Duct (Amps)	In Air (Amps)
					Flat Wire Strip (mm)	Round Wire (mm)										
	2 x 1.5	1	0.8	0.3		1.4	1.24	13	370	12.1	14.5	0.244	0.1	23	20	20
	3 x 1.5	1	0.8	0.3		1.4	1.24	13.5	420	12.1	14.5	0.244	0.1	21	17	17
	4 x 1.5	1	0.8	0.3		1.4	1.24	14	480	12.1	14.5	0.244	0.1	21	17	17
	5 x 1.5	1	0.8	0.3		1.4	1.24	15	510	12.1	14.5	0.244	0.1	21	17	17
	6 x 1.5	1	0.8	0.3		1.4	1.24	16	570	12.1	14.5	0.244	0.1	15	13	13
	7 x 1.5	1	0.8	0.3		1.4	1.24	16	590	12.1	14.5	0.244	0.1	14	13	13
YWY	10 x 1.5	1	0.8	0.3		1.4	1.4	19.5	800	12.1	14.5	0.244	0.1	13	11	11
	12 x 1.5	1	0.8	0.3	4 x 0.8		1.24	18.5	720	12.1	14.5	0.244	0.1	12	10	10
	14 x 1.5	1	0.8	0.3	4 x 0.8		1.4	19.5	780	12.1	14.5	0.244	0.1	11	10	10
	16 x 1.5	1	0.8	0.3	4 x 0.8		1.4	20.5	860	12.1	14.5	0.244	0.1	11	9	9
	19 x 1.5	1	0.8	0.3	4 x 0.8		1.4	21.5	970	12.1	14.5	0.244	0.1	10	9	9
	24 x 1.5	1	0.8	0.3	4 x 0.8		1.4	24.5	1170	12.1	14.5	0.244	0.1	9	8	8
	27 x 1.5	1	0.8	0.3	4 x 0.8		1.4	25	1250	12.1	14.5	0.244	0.1	9	8	8
	30 x 1.5	1	0.8	0.3	4 x 0.8		1.4	26	1330	12.1	14.5	0.244	0.1	9	7	7
	37 x 1.5	1	0.8	0.3	4 x 0.8		1.4	27.5	1560	12.1	14.5	0.244	0.1	8	7	7
	44 x 1.5	1	0.8	0.3	4 x 0.8		1.56	31.5	1830	12.1	14.5	0.244	0.1	7	6	6
	52 x 1.5	1	0.8	0.4	4 x 0.8		1.56	32.5	2080	12.1	14.5	0.244	0.1	7	6	6
YFY	61 x 1.5	1	0.8	0.4	4 x 0.8		1.56	34.5	2330	12.1	14.5	0.244	0.1	6	6	6
	2 x 2.5	1	0.9	0.3		1.4	1.24	14	450	7.41	8.89	0.234	0.1	32	27	27
	3 x 2.5	1	0.9	0.3		1.4	1.24	14.5	510	7.41	8.89	0.234	0.1	27	24	24
	4 x 2.5	1	0.9	0.3		1.4	1.24	15.5	590	7.41	8.89	0.234	0.1	27	24	24
	5 x 2.5	1	0.9	0.3		1.4	1.24	16.5	640	7.41	8.89	0.234	0.1	27	24	24
	6 x 2.5	1	0.9	0.3		1.4	1.24	17.5	720	7.41	8.89	0.234	0.1	21	18	18
YWY	7 x 2.5	1	0.9	0.3		1.4	1.24	17.5	750	7.41	8.89	0.234	0.1	20	17	17
	10 x 2.5	1	0.9	0.3	4 x 0.8		1.4	20.5	860	7.41	8.89	0.234	0.1	18	15	15
	12 x 2.5	1	0.9	0.3	4 x 0.8		1.4	21	950	7.41	8.89	0.234	0.1	17	14	14
	14 x 2.5	1	0.9	0.3	4 x 0.8		1.4	22	1030	7.41	8.89	0.234	0.1	16	13	13
	16 x 2.5	1	0.9	0.3	4 x 0.8		1.4	23	1130	7.41	8.89	0.234	0.1	15	12	12
	19 x 2.5	1	0.9	0.3	4 x 0.8		1.4	24.5	1270	7.41	8.89	0.234	0.1	14	12	12
	24 x 2.5	1	0.9	0.3	4 x 0.8		1.4	28	1580	7.41	8.89	0.234	0.1	13	11	11
	27 x 2.5	1	0.9	0.3	4 x 0.8		1.4	29	1750	7.41	8.89	0.234	0.1	12	10	10
	30 x 2.5’	1	0.9	0.3	4 x 0.8		1.56	30	1850	7.41	8.89	0.234	0.1	12	10	10
	37 x 2.5	1	0.9	0.4	4 x 0.8		1.56	32	2170	7.41	8.89	0.234	0.1	11	9	9
	44 x 2.5	1	0.9	0.4	4 x 0.8		1.56	36	2530	7.41	8.89	0.234	0.1	10	9	9
	52 x 2.5	1	0.9	0.4	4 x 0.8		1.56	37.5	2860	7.41	8.89	0.234	0.1	10	8	8
YFY	61 x 2.5	1	0.9	0.4	4 x 0.8		1.56	40	3290	7.41	8.89	0.234	0.1	9	8	8

MANGOCAB®
Wires & Cables



CO-AXIAL CABLES

Applicable Standard : MIL - C- 17, BS 2316

Type & Size : Generally manufactured with impedance group of 50, 75 and confirming to RG series.

Construction : **Conductor -** Solid / Standard (Copper bare / tinned) Copper covered steel. **Insulation -** Polyethylene - HDPE / Celluar PE. **Shielding -** Alu. - Myler Tape or Copper braiding or both (as per requirement)

Inner Sheath - General Purpose PVC / Heat Resistance (HR) Flame - Retardant Low Smoke (FRLS) **Armour** - Galvanized steel round wire / flat strip
Outer Sheath - General Purpose PVC / Heat Resistance (HR) Flame - Retardant Low Smoke (FRLS)

Applications : RF cables, for Transmission of data for systems in local network, Transmission of video & TV signals, Satellite communication system etc.

Construction Parameters	RG 59	Cable Type RG 11	RG 6
Center Conductor material	Soild bare copper	Soild bare copper	Soild bare copper
Nom. Center Conductor Dia (mm)	0.81	1.63	1.02
Insulation material	Foam PE	Foam PE	Foam PE
Nom. Dia over First Shield (mm)	3.70	7.29	4.75
1st Shielding material	Al-foil	Al-Foil	Al-foil
2nd Shield material	Al alloy braiding with min 60% coverage	Al alloy braiding with min 60% coverage	Al alloy braiding with min 60% coverage
PVC Sheathing Thickness in mm	0.90	0.90	0.90
Nom. Dia over Jacket (mm)	6.10	10.3	6.91
Nom. Jacket Wall Thickness (mm)	0.81	1.07	0.76
Max rest at 20°C (? / 100m)	3.50	0.85	2.14
Nom. Capacitance (pF/m)	53	53	53
Nom. Impedance (?)	75	75	75
Nom.Velocity of Propagation	85%	85%	85%

Attenuation at 20° (dB / 100m)

Frequency (MHz)	RG 59	RG 11	RG 6
5	2.82	1.25	1.90
55	6.73	3.15	5.25
211	12.47	6.23	10.00
250	13.45	6.72	10.82
300	14.60	7.38	11.64
350	15.75	7.94	12.63
400	16.73	8.53	13.61
450	17.72	9.02	14.43
500	18.70	9.51	15.09
550	19.52	9.97	16.08
600	20.34	10.43	16.73
750	22.87	11.97	18.54
870	24.67	13.05	20.21
1000	26.64	14.27	21.49

MANGOCAB®

Wires & Cables

MANGOCAB CABLES

Sales Office : Flat No. 21, Bldg No. D-3,
1st Floor, Shri Ganeshkrupa C.H. Society,
Radhagram, Dhobighat, Vakola,
Santacruz (East), Mumbai - 400 055.

Contact : +91 9004 770 999

Registered Office :
B/106, Kanchan Bliss CHS., Next to Metro Weight Bridge,
Valannaka, Mahim - Manor Road, Palghar (W),
Dist : Palghar, Maharashtra, India. 401 404.

Factory : Plot No. 8, Aamgaon Indl. Area,
Village : Aamgaon, Talasari,
Dist : Palghar - 401 603, Maharashtra.

Email : salesmangocab1@gmail.com
Web Side : www.mangocab.com