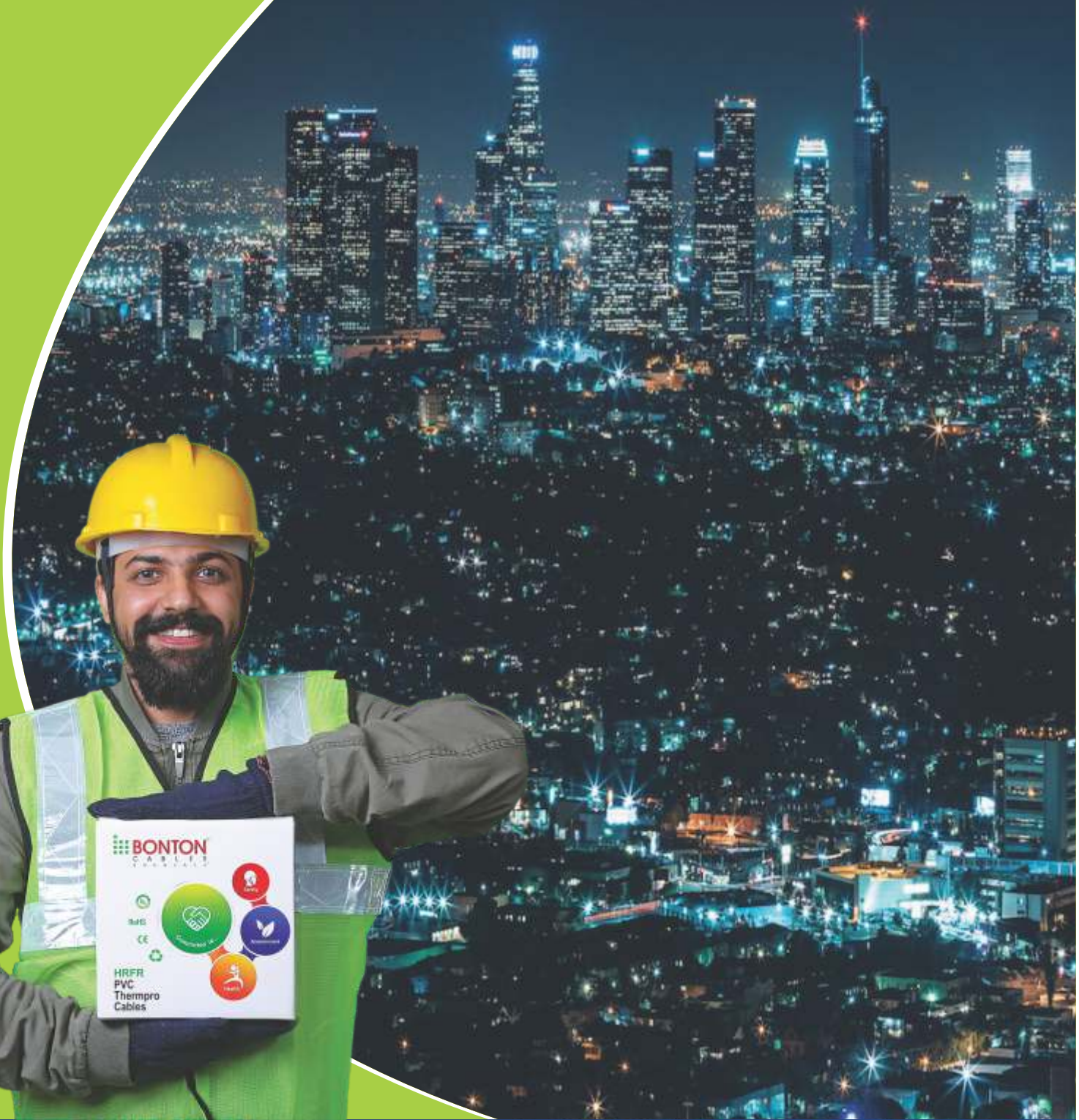


HOUSE WIRING FLEXIBLE CABLE

 **BONTON**[®]
C A B L E S
B O R N S A F E



Committed to Environment, Health & Safety

www.bontoncablesindia.com





About us

Bonton Cables is synonymous with dynamic and innovative insight into the cables industry of India. With a manufacturing unit in Bhiwadi, Rajasthan, over the last few Years Bonton cables has invested heavily in manufacturing infrastructure, quality systems, process controls & certifications and has become one of the most reputed wire and cable company in the country. The manufacturing unit has an inbuilt laboratory-unique because of the facilities for testing the cables as per ISO, BS, UL, BSEN, JIS, DIN, ASTM and IEC standards.

Bonton Cables is the first cable manufacturing unit in the country among the very few in the world to receive the prestigious ISO/TS: 16949: 2002 certified by UL. It has also acquired national/international product/quality certification and accreditations that are applicable in the wire and cable industry like

UL Registration

CE Certified

ISO/TS: 16949

OHSAS: 18001

ISO: 14001

RoHS Compliance

Its endeavour continues as it prepares to comply to more stringent standards and certifications to provide strong solution to the demanding industry.

Bonton Cables has made a name in the cables industry for production of specialized cables for temperatures ranging from -50° to 950°, special bending radius cables, high temperature cables, oil resistant cables and UV protected cables. Diversification of the product range is the major goal. It now provides the complete range of LT wires and cables for house wiring, instrumentation cables, power cables, telephone wires, telecom cables covering the entire gamut of household, commercial and industrial needs. Bonton Cables is the biggest supplier of energy cables to the Telecom equipment suppliers and network providers. It has been approved as a global sourcing partner for the various telecom projects. Furthermore, it has struck successful tie-ups with international companies like UK based MICC and Italy based CAVICEL for even enhanced parameters of LPCB approved Fire Survival Cables.

Bonton Cables has paved its way into the international market as a reputed exporter in the Middle East. Its premium range of FS and thermosetting halogen free wires and cables widens the horizon of its product range increasing further the scope of branching into new areas.

The graph of the company's growth rate shows a continuous steady rise. A strong infrastructure, wide range of high quality products, a well connected network of channel partners and distributors, a team of dedicated employees well trained to be competent technical professionals and an ever growing thirst to learn and improve in order to keep abreast of the latest technology, Bonton Cables is the perfect solution provider in the cables' industry.



House Protection Series

House and office are one of the most prized possessions as they provide security to loved ones. Bonton cables provide numerous house wiring solutions to its customers that provide total protection from overloading & short circuits.

105°C Heat Resistant Flame Retardant (105°C HRFR)

SINGLE CORE PVC INSULATED COPPER CONDUCTOR (UNSHEATHED)
CABLES 1100 VOLTAGE GRADE CONFORMING TO IS : 694

Our specialized HRFR PVC can operate continuously at 105° Celsius as compared to the 70° Celsius of the normal PVC insulation that has 30% more heat withstanding capacity which increases the current carrying capacity and enhance the service life of cables ensuring protection short circuit and overloads.

Basic Code	Basic Code	Nominal Cross Sectional area of conductor	Number/ Nom. Dia of cond. strands*	Thickness of Insulation (Nom)	Approx. Overall Diameter	Current Carrying Capacity 2 Cables Single Phase		Max. Conductor Resistance per KM at 20°C
						Conduit/ Trunking	Unenclosed clipped directly to a surface	
90 mtr	270 mtr							
Part No.	Part No.	sq mm	mm	mm	mm	Amps	Amps	Ohms
110266 N	110266 P	0.75	24/0.2	0.7	2.5	8	10	26.00
110267 N	110267 P	1.0	14/0.3	0.7	2.8	13	14	18.10
110268 N	110268 P	1.5	22/0.3	0.7	3.1	16	19	12.10
110269 N	110269 P	2.5	36/0.3	0.8	3.8	22	26	7.41
110270 N	110270 P	4.0	56/0.3	0.8	4.4	29	35	4.95
110271 N	110271 P	6.0	84/0.3	0.8	5.0	37	44	3.30

105°C Flame Resistant Low Smoke (105°C-FRLS-H)

SINGLE CORE PVC INSULATED COPPER CONDUCTOR (UNSHEATHED)
CABLES 1100 VOLTAGE GRADE CONFORMING TO IS : 694

The flame retardant reduce flame propagation. Release of Halogen Gas during burning is 20% less and visibility is more than 40% than that of normal PVC insulation.

Basic Code	Basic Code	Nominal Cross Sectional area of conductor	Number/ Nom. Dia of cond. strands*	Thickness of Insulation (Nom)	Approx. Overall Diameter	Current Carrying Capacity 2 Cables Single Phase		Max. Conductor Resistance per KM at 20°C
						Conduit/ Trunking	Unenclosed clipped directly to a surface	
90mtr	270mtr							
Part No.	Part No.	sq mm	mm	mm	mm	Amps	Amps	Ohms
110267NLS	110267PLS	1.0	14/0.3	0.7	2.8	13	14	18.10
110268NLS	110268PLS	1.5	22/0.3	0.7	3.1	16	19	12.10
110269NLS	110269PLS	2.5	36/0.3	0.8	3.8	22	26	7.41
110270NLS	110270PLS	4.0	56/0.3	0.8	4.4	29	35	4.95
110271NLS	110271PLS	6.0	84/0.3	0.8	5.0	37	44	3.30

Class 5 Conductor

SINGLE CORE PVC INSULATED COPPER CONDUCTOR (UNSHEATHED)
FLEXIBLE CABLES 1100 VOLTAGE GRADE TO IS : 694 FOR INDUSTRIAL APPLICATION

Basic Code	Nominal Cross Sectional area of conductor	Number/ Nom. Dia of cond. strands*	Thickness of Insulation (Nom)	Approx. Overall Diameter	Current Carrying Capacity 2 Cables Single Phase	Max. Conductor Resistance per KM at 20°C
					Unenclosed clipped directly to a surface or on cable trays	
Part No.	sq mm	mm	mm	mm	Amps	Ohms
110265 H	0.5	16/0.2	0.6	2.2	6	39.00
110266 H	0.75	24/0.2	0.7	2.5	10	26.00
110267 H	1.0	32/0.2	0.7	2.8	14	19.50
110268 H	1.5	30/0.25	0.7	3.1	19	13.30
110269 H	2.5	50/0.25	0.8	3.8	26	7.98



Halogen Free Low Smoke Cables

With the increased demand for safety in public areas and buildings, contractors are now being advised to install materials that are non-hazardous to members of the public in case of fire.

HFLS / BSEN : 50363 - 7

SINGLE CORE INSULATED COPPER CONDUCTOR (UNSHEATHED) HEAVY DUTY CABLES 1100 VOLTAGE GRADE CONFORMING TO BSEN 50363-7

Release of HCl gas is less than 0.5% than 20% of PVC and visibility is 90% more in case of fire. These cables are highly recommended for places with high public gathering

Basic Code	Basic Code	Nominal Cross Sectional area of conductor	Number/ Nom. Dia of cond. strands*	Thickness of Insulation (Nom)	Approx. Overall Diameter	Current Carrying Capacity 2 Cables Single Phase		Max. Conductor Resistance per KM at 20°C
						Conduit/ Trunking	Unenclosed clipped directly to a surface	
90mtr	270mtr							
Part No.	Part No.	sq mm	mm	mm	mm	Amps	Amps	Ohms
110267 NZ	110267 PZ	1.0	14/0.3	0.7	2.8	13	14	18.10
110268 NZ	110268 PZ	1.5	22/0.3	0.7	3.1	16	19	12.10
110269 NZ	110269 PZ	2.5	36/0.3	0.8	3.8	22	26	7.41
110270 NZ	110270 PZ	4.0	56/0.3	0.8	4.4	29	35	4.95
110271 NZ	110271 PZ	6.0	84/0.3	0.8	5.0	37	44	3.30

Technical Comparison Between 105° HRFR, 105° FRLS-H and HFLS Cables



S.No.	Feature	Standard Range 105 HRFR	Special Range	
			105°FRLS-H	HFLS
1	Insulation Material	Spl. PVC	Spl. PVC	Spl. Insulation
2	Insulation Property	Good	Good	Very Good
3	Temperature Rating	105°C	105°C	105°C
4	Thermal Stability	Good	Good	Very Good
5	Flame Retardancy	Very Good	Very Good	Excellent
6	Safety during Burning	Good	Good	Excellent
7	Requirement of critical oxygen index as per ASTM D-2863 to catch fire (%)	>29	>29	>35
8	Temperature Index	>250°C	>250°C	>280°
9	Light Transmission (Visibility) during Cable as per ASTM D-2843 Burning (%)	NA —	>40 Good	>90 Excellent
10	Release of Halogen Gas During Burning (%)	NA —	<20 Good	<0.5 Excellent
11	Abrasion Resistance During Installation	Good	Good	Good

HFLS Fire Care Thermosetting



Thermosetting insulation is durable and does not soften during heat, ideal for high temperature application

Construction

Manufacturing Standard	BS 7211
Conductors	Standard Plain annealed copper wire (class 2) to BS EN 60228
Insulation	An extruded layers of cross linked Zero Halogen Low Smoke Compound

Physical Characteristics

Voltage Rating (Uo / U)	450 / 750 V Note : When Installed in a earthed Material encloser, Cables are suitable for voltage upto 1000 V a.c,or upto 750V to earth d.c.
Max. Conductor Temp	90°C Note : Where a conductor operates at a temperature 70°C, it shall be ascertained that the equipment connected to the Conductor is suitable for the conductor operating Temperature (see regulation 512-1-5 of BS 7671,the 17 edition of IEE wiring Regulations)
Minimum Bending Radius	6 x overall diameter of Cable

Performance Characteristics

Smoke Emission	BS EN 61034
Acid Gas Emission	BS EN 50267-2-1
Flame Propagation	BS EN 60332-2-1

Single Core Insulated Copper Conductor (Unsheathed)
Heavy Duty Cables 1100 Voltage Grade Confirming to BS 7211

Nominal Area of Conductor	Insulation Thickness	Approx Overall diameter	Approx weight of cable	Minimum conductor Resistance @ 20°C
mm	mm	mm	kg / km	00/ km
1.5	0.7	3	25	12.10
2.5	0.8	3.7	35	7.41
4	0.8	4.2	50	4.61
6	0.8	4.8	70	3.08
10	1.0	6.3	120	1.83
16	1.0	6.9	170	1.15
25	1.2	8.5	260	0.727
35	1.2	9.5	350	0.524
50	1.4	11.2	475	0.387
70	1.4	12.8	670	0.268
95	1.6	15.2	940	0.193
120	1.6	16.5	1160	0.153
150	1.8	18.4	1435	0.124
185	2.0	21.6	1800	0.0991
240	2.2	23.3	2350	0.0754
300	2.4	26	2960	0.0601
400	2.6	31.5	3930	0.0470
500	2.8	35.4	5030	0.0366
630	2.8	37.2	6160	0.0283

Enclosed In Conduit

Two Cables, Single Phase a.c. current rating	Two Cables, Single Phase a.c. Volt Drop per amp per metre	Three or Four Cables, Three Phase a.c. Current Rating	Three or Four Cables, Three Phase a.c. Volt Drop per Amp per Meter
amp	mV/A/m	amp	mV/A/m
22	31	19	27
30	19	26	16
40	12	35	10
51	7.9	45	6.8
71	4.7	63	4.0
95	2.9	85	2.5
126	1.90	111	1.65
156	1.35	138	1.15
189	1.05	168	0.90
240	0.75	214	0.65
290	0.58	259	0.50
336	0.48	299	0.42
375	0.43	328	0.37
426	0.37	370	0.32
500	0.33	433	0.29
573	0.31	493	0.27
683	0.29	584	0.25
783	0.28	666	0.24
900	0.27	764	0.23

Release of HCl gas is less than 0.5 % than 20% of PVC and visibility is 90% more in case of fire. These cables are highly recommended for places with high public gathering. The cross linked molecular structure makes the cables withstand upto 200°C I.E. a very high melting point thus these cables have higher tensile strength.

Fire Survival Fire Care

BONTON Fire Care Survival Cable is one of the best ways to help improve the safety of you and your family before the impact of, or during fire. BONTON Fire care cable can help stop you from making rushed and dangerous decisions at the last moment.



A fire resistant HFLS conduit wire

Voltage Rating	600/1000 volts	
Description	FIRE CARE Single core is designed to be installed in metal conduit. For use in alarm and emergency lighting circuits for new installations or upgrading existing conduit systems to fire performance standards. Elastomeric insulation gives high mechanical strength, excellent flexibility and resistance to abrasion.	
Construction	Stranded plain annealed copper conductors. Mica/glass fire barrier tape. Elastomeric HFLS outer sheath.	
Operating Temperature	-10°C to +90°C	
Minimum Bending Radius	6 x overall diameter	
Core Identification	Bn, Blk, Gy, Be, Rd, Oe, Yw & Gn/Yw. Other colours available on request.	
Lengths	100/500 mtrs. Special lengths available on request.	
Sheath Colour	NA	
Manufacturing Standard	BS 7211 (Generally to, fire resistant)	
Fire Tests	BS 6387 C, W, Z and IEC 60331-21 when tested in a steel conduit at a temperature of 950°C and an increased voltage of 600/1000 volts.	
Emissions and Flame Propagation	BS EN 50267 BS EN 50268 BS EN 50265, 50266	(IEC 60754)Acid Gas Emission (IEC 61034)Smoke Emission (IEC 60332) Flame Propagation
Special Notes	Methods of cable support should withstand a similar temperature and duration to that of the cable.	



BS7211 : Thermosetting Compounds

Thermoset Cross- linked Molecule

VS

BSEN : 50363-7 Thermoplastic Compound

Thermoplastic Molecular Chains

What is a Thermoplastic Material ?

A simple analogy to a thermoplastic is a chocolate bar. When a chocolate bar is melted, it has the ability to take on a new shape as it cools. This ability to be molded again and again is characteristic of thermoplastics. Thermoplastics are composed of chains of molecules such as polyethylene. Each thermoplastic molecule is composed of many smaller individual molecules, as seen here in Figure 1.

When heat is applied to the material, the added energy will allow the bonds between the molecules to be separated, causing them to move around like a liquid.

What is a Thermoset Material ?

If a chocolate bar is analogous to a thermoplastic, thermoset materials can be described as being similar to a birthday cake. Once a cake is baked, it takes its final shape. Baking it longer does not increase or decrease the size of the cake. Ultimately if enough heat is applied, it will burn, but not melt like a chocolate bar. This particular characteristic is why thermosets are useful as durable materials that do not soften under high heat, such as car tires or flat roofing membranes. Technically speaking, thermoset materials are those that are formed of basic polymer structures, such as polyethylene, and then cured or vulcanized. The curing process is what turns the plastic polymers into thermoset materials, which are also known as natural or synthetic rubber materials. The curing process can be done many ways, but the results are virtually the same. The long, individual polymer chains of the plastic become cross-linked by smaller molecules. The figure shows the different molecular structures of a thermoplastic and a thermoset.

Because thermoset materials do not melt, they are usually a more appropriate choice for wire and cable to be used in high temperature applications or in circuits at risk of overload. They are more likely to function if the temperature of an application rises suddenly.



Figure 1

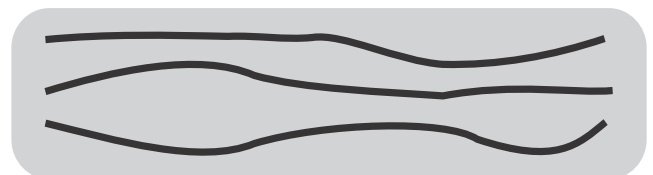
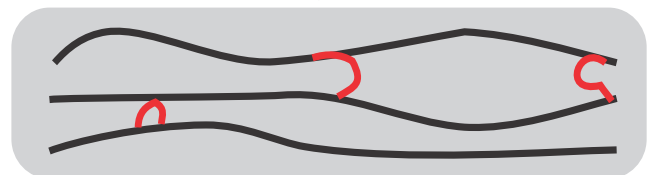
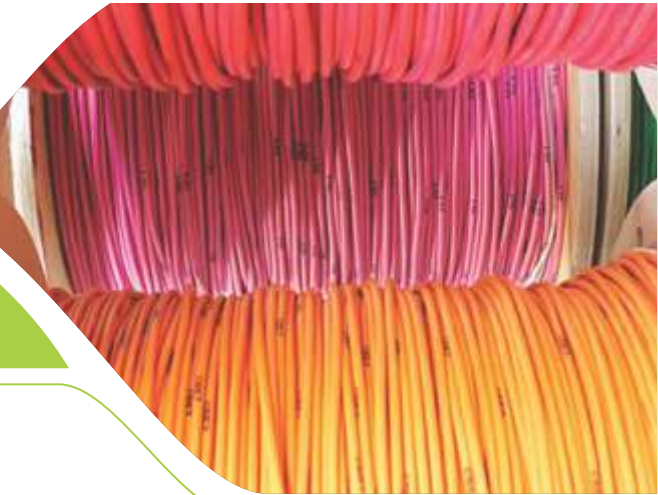


Figure 2



Fire Care Cables (HFLS)

Technical Compression Between PVC, Thermoplastic And Thermosetting Fire Care



Characteristic	PVC	Thermoplastic	Thermosetting Fire Care	How It Affects The Product
High Temperature Mechanical Performance	Poor to Good	Excellent	Excellent	Increases survivability during emergencies or normal usage at high temperature
Coefficient of Friction	Very Low to moderate	Moderateto Very high	Very High	Affects pulling tension wire processing and tactile feel
Elongation	Poor to Good	Good	Excellent	Measure of stretch before braking, encountered during installation, processing and Fixing
Tensile Strength	Poor to excellent	Good	Excellent	Wide range in both material types impacts durability and stripability
Color Ability	Good to excellent	Good	Excellent	Affects identification especially in low-light conditions
Heat Deformation	Poor to Good	Good	Excellent	Becomes very soft as it nears its melting point
Cold Temperature Compatibility	Poor to excellent	Excellent	Excellent	Affects storage, handing, installation and usage in cold environments, including air shipment.

Bonton Fire Care cables resist ignition

Extending the time before cables start to burn in a fire, providing more time to escape. Improve safety and Human survival benefit in a fire.

Bonton Fire Care cables reduce fire propagation

By being slow to burn, reducing the immediate threat and extending escape time.Allow people to see and. breath safely for longer.

Bonton Fire Care cables reduce smoke to a minimum

Reducing disorientation, confusion and panic, with little smoke, people can see the exit routes clearly and have more time to follow them to safety. Emergency service have more time to operate effectively. Increase time for people to escape.

Bonton Fire Care cables do not contain halogens

Hydriodic acid is not form during the fire. There is no threat of inhalation of this highly irritant chemicals and no damage to sensitive or costly equipments. Reduce fire damage of buildings and electric equipment.

- Improve Safety and Human Survival benefit in a Fire
- Allow people to see & Breath Safely for longer
- Increase time to people escape
- Improve visibility and Safety for emergency Service
- Reduce fire damage of building and electric equipments are design to improve public & environment Safety.

Specially conducted Fire Test have confirm the performance advantage of BONTON FIRE CARE wire

Fire Test after Six Minutes



PVC Cables
Exit and escape lights obscured by dense smoke, hindering escape



BONTON Fire Care Cables
Exit and escape lights allowing safer evacuation



Flexible Cables

Besides being fire retardant, our heat resistant (105°C) wires have properties to withstand the excess heat generated in the wire due to overload.

105°C Heat Resistant Flame Retardant Grade (105 HRFR)

An efficient solution for industrial electrical systems designers, Bonton Flexible Cables use the best E.C. Grade copper procured from primary copper manufacturers to ensure low conductor resistance. In addition, 105 HRFR insulation provides increased current carrying capacity & thus cost effectiveness.

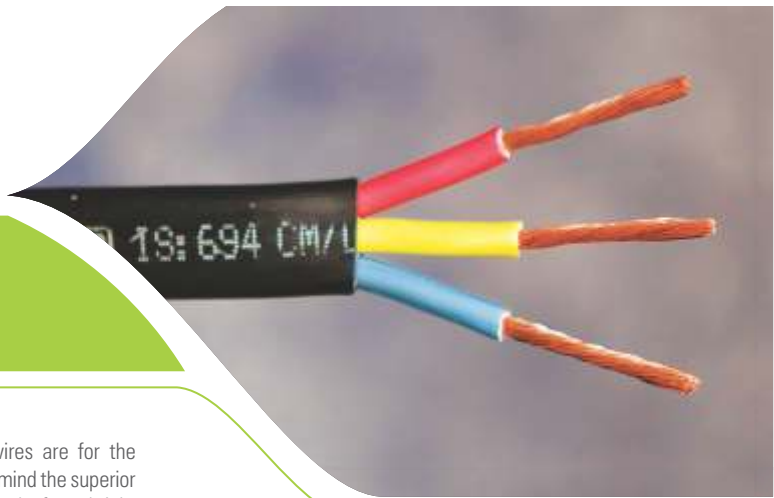
Basic Code	Nominal Cross Sectional area of conductor	Number/ Nom. Dia of cond. strands*	Thickness of Insulation (Nom)	Approx. Overall Diameter	Current Carrying Capacity 2 Cables Single Phase	Max. Conductor Resistance per KM at 20°C
					Unenclosed clipped directly to a surface or on cable trays	
Part No.	sq mm	mm	mm	mm	Amps	Ohms
110265 H	0.5	16/0.2	0.6	2.2	6	39.00
110266 H	0.75	24/0.2	0.7	2.5	10	26.00
110267 H	1.0	32/0.2	0.7	2.8	14	19.50
110268 H	1.5	30/0.25	0.7	3.1	19	13.30
110269 H	2.5	50/0.25	0.8	3.8	26	7.98
110270 H	4.0	56/0.3	0.8	4.4	35	4.95
110271 H	6.0	84/0.3	0.8	5.0	44	3.30
110272 H	10	80/0.4	1.0	6.6	61	1.91
110273 H	16	126/0.4	1.0	7.8	82	1.21
110274 H	25	196/0.4	1.2	9.7	103	0.780
110275 H	35	276/0.4	1.2	10.9	132	0.554
110276 H	50	396/0.4	1.4	13.2	174	0.386
110277 H	70	360/0.5	1.8	16.15	256	0.272
110278 H	95	475/0.5	1.9	18.75	304	0.206
110279 H	120	608/0.5	2.10	21.25	359	0.161
110280 H	150	750/0.5	2.10	22.25	406	0.129
110281 H	185	925/0.5	2.50	25.50	466	0.106
110282 H	240	1221/0.5	2.50	28.50	550	0.0801

Multicore Round PVC Insulated Copper Conductor And PVC Sheathed Black Flexible Cables 1100 Voltage Grade to IS: 694

Basic Code	Nominal Cross Sectional area of conductor	Number /Nom. Dia of cond. strands*	Thickness of Insulation (Nom)	Nominal Thickness of Sheet			Appx. Overall Diameter			Current Rating AC	Voltage Drop /Amp/Meter		Max. Conductor Resistance per KM at 20° C
				Two Core	Three Core	Four Core	Two Core	Three Core	Four Core		DC or Single Phase AC	3 Phase AC	
Part No.	sq mm	mm	mm	mm	mm	mm	mm	mm	mm	Amps	mV	mV	Ohms
110308 2C	0.5	16/0.20	0.6	0.9	0.9	0.9	6.2	6.6	7.2	5	83	72	39.0
110309 2C	0.75	24/0.20	0.6	0.9	0.9	0.9	6.5	6.9	7.6	8	56	48	26.0
110310 2C	1.0	32/0.20	0.6	0.9	0.9	0.9	6.9	7.3	8.2	13	43	37	19.5
110311 2C	1.5	30/0.25	0.6	0.9	0.9	1.0	7.6	8.2	9.3	18	31	26	13.3
110312 2C	2.5	50/0.25	0.7	1.0	1.0	1.0	9.0	9.6	10.5	24	18	16	7.98
110313 2C	4.0	56/0.30	0.8	1.0	1.0	1.0	10.3	10.9	12.3	31	11	9.6	4.95

*Note : The number and diameter of conductor strands are for reference only. Conductor resistance as per IS : 8130 is the governing criteria.

3 Core Flat Cables



BONTON connecting cables are just as important as trouble - free winding wires are for the submersible pump motors. BONTON 3 core Flat Cables are manufactured keeping in mind the superior connectivity in difficult conditions to perform. The individual conductors are made from bright electrolytic pure copper. The wires are drawn, annealed and bunched properly to ensure flexibility and uniform resistance.

Technical Data

3 Core Flat Cables as per IS 694:1990 with ISI mark

Copper conductor pvc insulation of cores (red, yellow blue) PVC sheath (black)

Conductor		Insulation	Sheath	Overall Dimensions		Conductor Resistance	Current carrying
Area Sq.mm	No/Dia of Strands	Thickness (Nom) mm	Thickness (Nom) mm	Width (approx) "W" mm	Height (approx) "H" mm	@20°C (max) ohm/km.	capacity @40°C Ampa
1.5	22/0.30*	0.6	0.9	10.30	4.9	12.10	14
2.5	36/0.30*	0.7	1.0	12.60	5.8	7.41	18
4.0	56/0.30*	0.8	1.0	14.80	6.6	4.95	26

3 Core flat cables generally confirming to IS 694: 1990

Conductor		Insulation	Sheath	Overall Dimensions		Conductor Resistance
Area Sq.mm	No/Dia of Strands	Thickness (Nom) mm	Thickness (Nom) mm	Width (approx) "W" mm	Height (approx) "H" mm	@20°C (max) ohm/km.
6.0	84/0.30	0.8	1.15	16.50	7.40	3.30
10.0	140/0.30	1.0	1.40	21.00	9.25	1.91
16.0	226/0.30	1.0	1.40	24.50	10.70	1.21
25.0	354/0.30	1.2	2.00	30.60	13.50	0.780
35.0	495/0.30	1.2	2.00	34.40	14.70	0.554
50.00	703/0.30	1.4	2.20	41.20	17.20	0.386
70.0	360/0.50	1.4	2.20	46.60	19.00	0.272
95.0	475/0.50	1.6	2.40	53.00	21.40	0.206

PVC insulated three core round double sheathed cables for submersible pumps

Double sheathed round 3 core cables are popularly used in overseas markets as an alternative to 3 core flat cables. The double sheath not only offers better mechanical protection from abrasion, but also prevents ingress of water along the interstices of the cable. Bright annealed flexible copper conductors used in these cables, is insulated and sheathed with special grades of in-house formulated and manufactured PVC compounds.

Size (mm²)	Conductor construction No./ Nom. Dia. (No/mm)	Max. Conductor Resistance at 20°C (ohm/km)	Insulation Thickness (Nom.)(mm)	Total Thickness of Double sheath (Nom) (mm)	Overall Diameter (Approx) (mm)
1.5	30/0.25	13.3	0.6	1.6	9.9
2.5	50/0.025	7.98	0.7	1.6	11.5
4	56/0.3	4.95	0.8	1.6	13.5
6	84/0.3	3.30	0.8	1.8	15.0
10	140/0.3	1.91	1.0	20.0	18.6
16	226/0.3	1.21	1.0	2.2	21.8
25	354/0.3	0.780	1.2	2.4	25.9
35	495/0.3	0.554	1.2	2.6	28.8
50	703.0.3	0.386	1.4	2.6	33.6
70	360/0.5	0.272	1.4	2.8	38.4
95	475/0.5	0.206	1.6	2.8	42.6

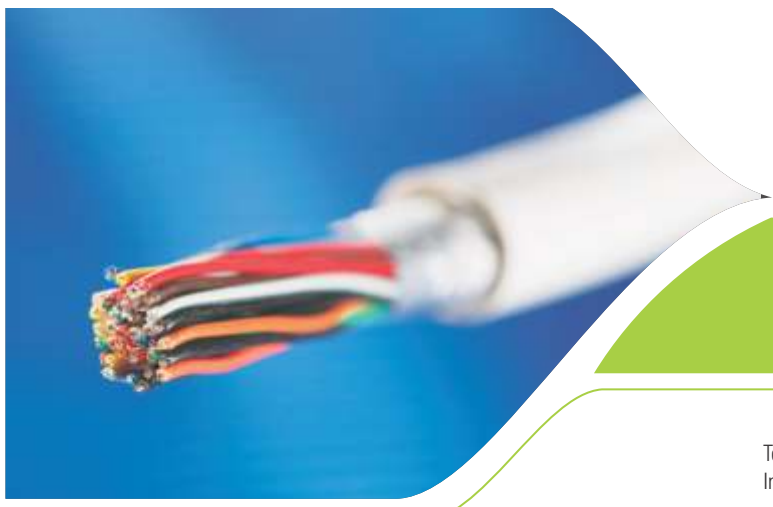
Selection guide for 3 core flat cables

- HP Vs Current: The full load current for submersible pump motors, 3 phase 50 cycles, 415 – 425 V.

HP	5.0	7.5	10.0	12.5	15.5	17.5	20.2	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0
AP	7.5	1.0	14.9	18.9	22.5	25.2	28.4	35.6	42.3	50.4	58.1	62.1	67.5	73.8	81.0	87.3	93.6	100.8	108.0

- Factors : Multiply the current carrying capacity of the cable by factors given below for various ambient temperatures.

Ambiant temperature	30	35	40	45	50
Rating Factor	109	104	100	95	77



Speciality Cables

Telecom 3 core Flat & Co- Axial Cables BONTON PVC Insulated Telephone Cables for Indoor application confirming to TEC specification G / WIR06 / 02

Application

Cables used for Indoor Telephones, Telephone Exchanges, Satellite Telecommunication Systems, Industrial Plant Communication Systems, EPBAX Systems, Closed Circuit Security Systems, In-House Telephone wiring and various other equipments involving telephones.

Standard

Cables are generally made as per TEC Specification No. G/WIR-06/02 or as per customer specification

Construction

Solid annealed tinned/bare copper conductor, PVC insulated cores suitably colour coded for distinct identification, twisted to form pairs, laid up, PVC sheathed. Armoured Cables are provided with Galvanised steel wire/strip armouring and then sheathed again with PVC.

Design / Material Options

Conductor	: Tinned copper / Bare copper
Insulation	: PVC / HRPVC / Polythelene
Shielding	: Over all shielded / Individual pair shielded and over all shielded with polyester backed aluminium tape or fine copper wire braid.
Sheathing	: PVC/HRPVC/FRPVC /FRLSPVC / Polythelene
Conductor size Cable	: 0.4 / 0.5 / 0.6 / 0.7 / 0.8 / 0.9 mm
Configuration	: 1p, 2p, 3p, 4p, 5p, 10p, 20p, 50p, 100p

Buyers

BSNL., C.DOT, Switching equipment manufactures, contractors of BSNL and C.DOT, every industrial and commercial establishment, construction industry and many more beside the general dealer market.

Salient Features For Telephone Cable

- Hard grade PVC insulation is used for long life and stable properties of cables.
- Staggered lays of twisted pairs are used to ensure minimum cross talk.
- Sizing and processing of conductor and insulated cores is done in precisely controlled manner on automatic modem machines to have optimum values of capacitance, capacitance unbalance, image and cross talk attenuation and characteristic impedance.



Coaxial TV Cables

Application : Used in Cable TV Operation, Computer Networking etc.Construction: Solid annealed bare copper conductor polyethylene insulated shielded with Polyester backed Aluminum tap and additional shielded with fine aluminum braid, jelly flooded, protected with Polyester tape wrapping and shelted with PVC.



Technical Data

S.No.	Type	
1	Size	RG-59, RG-6, RG-11
2	Inner Conductor	Solid Copper
3	Insulation	Gas Injected Physical Foamed Polyethylene
4	Flooding Compound	Jelly
5	Outer Conductor	Bonded Polyaluminium Tape, Braided with Aluminium Alloy Wire
6	Outer Jacket	UV Resistant Black PVC Jacket
7	Making	Progressive Sequential Length Marketing on Every Meter

Electrical Parameters

S.No.	Type			
1	Inner Conductor-			
	Max. Resistance (Phm/km) @ 20°C	0.8A4	2.13	3.55
2	Inner Conductor-			
	Loop Resistance (Phm/km) @ 20°C	1.66	2.78	4.64
3	Nom. Capacitance (Pf/mttr.)	53	53	53
4	Nom Impedance (Phm)	75	75	75
5	Nom Velocity Ratio (%)	85	85	85
6	Nom. Attenuation @ 25°C (DB/100m{			
	@55Mhz	2.82	1.95	6.73
	@83Mhz	3.87	6.20	8.04
	@187Mhz	5.74	9.15	11.81
	@211Mhz	6.23	9.50	12.47
	@250Mhz	6.72	10.50	13.45
	@300Mhz	7.38	11.50	14.60
	@350Mhz	7.94	12.45	15.71
	@400Mhz	8.53	13.30	16.73
	@450Mhz	9.02	14.35	17.72
	@500Mhz	9.51	14.95	18.70
	@550Mhz	9.92	15.70	19.52
7	Structural Return Loss (db/100m)			
	From 30 to 300 Mhz	>26	>28	>30
	From 300 to 550 Mhz	>24	>22	>24
	Bending Radius, min (mm)	75	65	65

Electrical Parameters

S.No.	Type	RG-11 Foam	RG-6 Foam	RG-59 Foam
1	Inner Conductor-	Solid Bare Copper	Solid Bare Copper	Solid Bare Copper
2	Nom. Diameter (mm)	1.63	1.02	0.80
3	Dielectric	Foam PE	Foam PE	Foam PE
4	Nom. Diameter (mm)	7.11	4.57	3.55
5	Outer Conductor - First	Bonded AL Tape	Bonded AL Tape	Bonded AL Tape
6	Outer Conductor - Second	AL Braid	AL Braid	AL Braid
7	Nom. Coverage (%)	60	60	60
8	Jacket	PVC (Black)	PVC (Black)	PVC (Black)
9	Nom. Diameter (mm)	10.00	7.00	6.20



Our Valuable Clients

Bonton Cables has a wide range of cable products that are extensively researched to give comprehensive solutions to its clientele.

HRFR, HRFRLS & HFLS cables for Domestic applications Flexible cables

Telehonic cables | Instrumentation cables | Battery cables | Elastomeric cables | Cables for special applications | LT XLPE Underground cables Mains cords | Silicon cables
| Fire Survival cables | Automobile cables | Co-Axial cables





Branch Offices

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