

HMP Bintex

Connecting Power Since 1969

CABLES & WIRES



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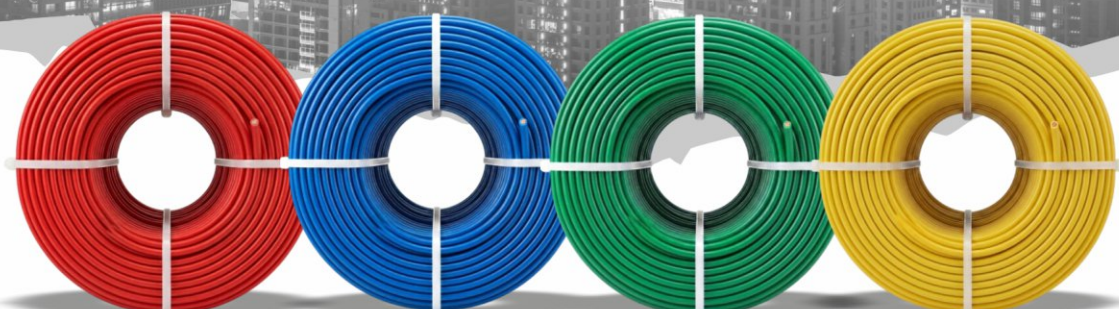
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Connecting Power Since
1969

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MISSION

Our mission is to manufacture premium-quality cables and wires that deliver safety, reliability, efficiency, and long-lasting performance. We are committed to exceeding customer expectations through innovation, advanced technology, stringent quality standards, and ethical business practices.



VISION

To become a globally trusted and respected brand in the cables and wires industry by delivering innovative, safe, and high-performance electrical solutions that empower progress, inspire trust, and create sustainable value for customers, society, and future generations.

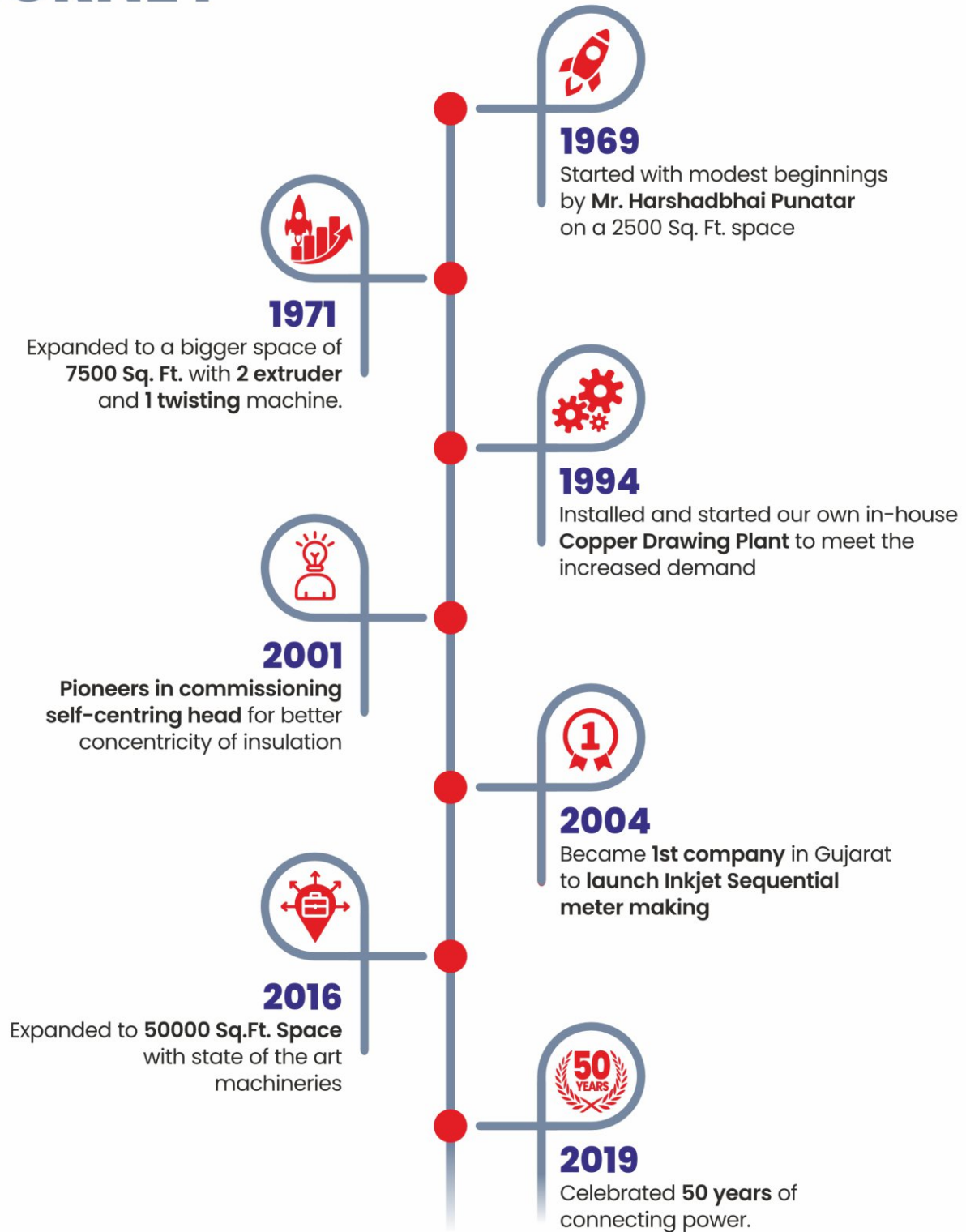


VALUE

- Quality Excellence
- Customer Commitment
- Integrity & Ethics
- Innovation
- Safety & Reliability
- Sustainability
- Continuous Improvement



Glorious JOURNEY



INFRASTRUCTURE

At **HMP BINTEX CABLES LLP**, our vision is to establish ourselves as a symbol of excellence in the electric wires and cables industry. To achieve this goal, we have invested in building a state-of-the-art manufacturing facility, leaving no stone unturned in ensuring top-notch production standards. Our machinery and processes are thoughtfully designed with flexibility, allowing us to adapt seamlessly to evolving technologies and changing customer requirements. This ensures that our cables and wires consistently deliver superior quality and unmatched reliability.

With our advanced infrastructure and efficient operations, we are able to optimize production costs—enabling us to offer premium quality products at highly competitive prices in the market.



PRODUCT RANGE



FR-LF HOUSE WIRES



HR-FR LIFETIME HOUSE WIRES



ZHFR FIREPROOF HOUSE WIRES



**HR-FR PVC INSULATED
MULTICORE FLEXIBLE CABLES**



**3 CORE XLPE + PVC
SUBMERSIBLE FLAT CABLES**



**ALUMINIUM AND COPPER
XLPE POWER CABLES**



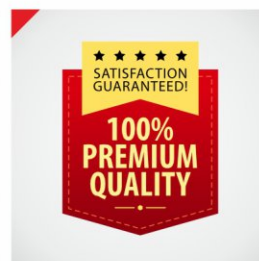
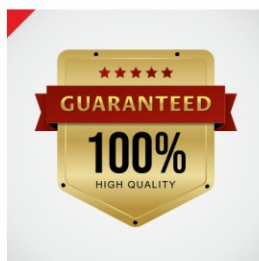
FIRE SURVIVAL CABLES



WELDING CABLES



LAN CABLES



FIRE SURVIVAL CABLES

According to the India Risk Survey Report 2017, fire ranks among the top three risks across key sectors such as Education, Hospitality, Infrastructure, Media, Healthcare, and Retail. In infrastructure, fire incidents are commonly triggered by factors like cable short circuits, faulty equipment and appliances, presence of flammable materials, negligence, inadequate staff training, poor wiring and maintenance, as well as defects in electrical panels and circuit breakers. The report highlights that electricity remains the leading cause of fire outbreaks in buildings and infrastructure.

APPLICATION :

HMPBintex Fire Survival Multi-Core Armoured Cables are specifically designed for both indoor & outdoor applications where uninterrupted power supply during fire conditions is critical. These cables are ideal for environments where the emission of toxic gases can pose serious risks to human life or sensitive equipment—such as high-rise buildings, schools, hospitals, hotels, shopping malls, and subways.

FLAME RETARDANT VS FIRE RESISTANT CABLES: :

There is a significant difference between Flame Retardant and Fire Resistant cables.

- Flame Retardant Cables help prevent the spread of fire to surrounding areas.
- Fire Resistant Cables, however, go a step further by not only limiting fire spread but also maintaining circuit integrity for an extended duration during fire conditions.

This distinction plays a crucial role in ensuring life safety, enabling safe evacuation, and supporting the controlled shutdown of critical systems.

CONSTRUCTION :

- Annealed plain stranded copper as per class 2
- Mica glass flame barrier tape
- Extruded XLPE insulation
- Insulated cores assembled together
- Extruded FRLS/LSZH inner sheath
- Galvanised Steel round wire armouring
- Extruded LSZH outer sheath

UNIQUE FEATURES :



FR-LF HOUSE WIRES



High-quality electrical wiring works like the veins of a human body—the essential lifeline of any building. Today, more than ever, there's a need for wires that ensure superior power efficiency, enhanced safety, and are environmentally responsible.

HMPBintex FR-LF Wire is designed to meet this exact need. It reflects HMP Bintex's constant commitment to making lives safer, smarter, and more reliable. Engineered with precision, it complies with strict European standards for environmental sustainability and cable safety, backed by RoHS and REACH certifications. A smarter choice for safer living.



101% Cu
CONDUCTIVITY



100%
BUNCHED COPPER



BEST THERMAL
CAPACITY



20% HIGHER
CURRENT CAPACITY



HIGH HEAT
RESISTANCE



NO HARMFUL
CHEMICALS



LEAD
FREE

HR-FR LIFETIME HOUSE WIRES



Conductor :

The conductor is drawn from 100% bright electrolytic copper and bunched together using the state of the art machinery.

Insulation :

The conductor is insulated with specially formulated HR-FR (Heat Resistant – Flame Retardant) PVC compound rated up to 105°C. The insulation helps resist the spread of fire, emits low smoke, and reduces toxic gas emission during fire conditions.

Marking :

The cables are printed with "**HMPBintex** HR-FR" marking.

Colours :

Available in Red, Yellow, Blue, Green, Black, White & Grey. Any other colour can be made on request.

Packing : Available in 90 mtrs or 180 mtrs coil.



101% Cu
CONDUCTIVITY



100%
BUNCHED COPPER



BEST THERMAL
CAPACITY



20% HIGHER
CURRENT CAPACITY



HIGH HEAT RESISTANCE
UP TO 105°C

ZHFR FIREPROOF HOUSE WIRES



Conductor :

The conductor is drawn from 100% bright electrolytic copper and bunched together using the state of the art machinery.

Insulation :

Specially formulated in house Zero halogen Fire retardant (ZHFR) PVC is used for insulation purpose which prevents the spread of fire in an event of fire situation. There is minimal smoke and the smoke emitted is non toxic.

Marking :

The cables are printed with "**HMPBintex** Fireproof" marking.

Colours :

Available in Red, Yellow, Blue, Green, Black, White & Grey. Any other colour can be made on request.

Packing :

Available in 90 mtrs or 180 mtrs coil.



101% Cu
CONDUCTIVITY



100%
BUNCHED COPPER



BEST THERMAL
CAPACITY



20% HIGHER
CURRENT CAPACITY



HIGH HEAT
RESISTANCE



HALOGEN
ACID <0%



>30%
OXYGEN INDEX



SMOKE DENSITY
RATING <6%

Project Coil 180Mtr. Available in Box Packing

HMP BINTEX, SINGLE CORE, FRLS-H PVC INSULATED INDUSTRIAL CABLE AS PER IS : 694

NOMINAL AREA OF CONDUCTOR	NO. OF STRANDS/MAXIMUM DIAMETER OF STRAND	THICKNESS OF INSULATION	APPROX OVERALL DIAMETER	CURRENT CARRYING CAPACITY	RESISTANCE (MAX) AT 20 DEGREE
Sq. mm	Nos./mm	mm	mm	Amps	Ohms
0.75 mm	24/0.21	0.60	2.25	8.54	26
1.00mm	14/.031	0.70	2.60	14.64	18.1
1.50 mm	22/0.31	0.70	2.85	19.52	12.1
2.50 mm	36/0.31	0.80	3.50	26.84	7.41
4.00 mm	56/0.31	0.80	3.95	34.8	4.95
6.00 mm	84/0.31	0.80	4.45	44.4	3.30

Note : * The number and diameter of conductor strands are for reference only. Conductor resistance as per IS:8130 is the governing criteria. The above data is indicative and may be revised without prior intimation. As per IS:3961 (Part V)-1968



Project Coil 180Mtr. Available in Box Packing

HMP BINTEX, SINGLE CORE, HR-FR PVC INSULATED INDUSTRIAL CABLE AS PER IS : 694

NOMINAL AREA OF CONDUCTOR	NO. OF STRANDS/MAXIMUM DIAMETER OF STRAND	THICKNESS OF INSULATION	APPROX OVERALL DIAMETER	CURRENT CARRYING CAPACITY	RESISTANCE (MAX) AT 20 DEGREE
Sq. mm	Nos./mm	mm	mm	Amps	Ohms
0.75 mm	24/0.21	0.60	2.25	8.54	26
1.00mm	14/.031	0.70	2.60	14.64	18.1
1.50 mm	22/0.31	0.70	2.85	19.52	12.1
2.50 mm	36/0.31	0.80	3.50	26.84	7.41
4.00 mm	56/0.31	0.80	3.95	34.8	4.95
6.00 mm	84/0.31	0.80	4.45	44.4	3.30

Note : * The number and diameter of conductor strands are for reference only. Conductor resistance as per IS:8130 is the governing criteria. The above data is indicative and may be revised without prior intimation. As per IS:3961 (Part V)-1968



Project Coil 180Mtr. Available in Box Packing

HMP BINTEX, SINGLE CORE, ZHFR PVC INSULATED INDUSTRIAL CABLE AS PER IS : 694

NOMINAL AREA OF CONDUCTOR	NO. OF STRANDS/MAXIMUM DIAMETER OF STRAND	THICKNESS OF INSULATION	APPROX OVERALL DIAMETER	CURRENT CARRYING CAPACITY	RESISTANCE (MAX) AT 20 DEGREE
Sq. mm	Nos./mm	mm	mm	Amps	Ohms
0.75 mm	24/0.21	0.60	2.25	8.54	26
1.00 mm	14/.031	0.70	2.60	14.64	18.1
1.50 mm	22/0.31	0.70	2.85	19.52	12.1
2.50 mm	36/0.31	0.80	3.50	26.84	7.41
4.00 mm	56/0.31	0.80	3.95	34.8	4.95
6.00 mm	84/0.31	0.80	4.45	44.4	3.30

Note : * The number and diameter of conductor strands are for reference only. Conductor resistance as per IS:8130 is the governing criteria. The above data is indicative and may be revised without prior intimation. As per IS:3961 (Part V)-1968



HR-FR PVC INSULATED MULTICORE FLEXIBLE CABLES

Application :

These cables are used for wiring in machines, control panels, etc in dry and damp conditions especially under typical industrial environment.

Conductor :

The conductors are drawn from bright electrolytic grade copper and bunched together as per class 5 of IS : 8130.

Insulation :

The conductors are insulated with specially formulated HR-FR (Heat Resistant Flame Retardant) PVC compound that provides excellent electrical insulation, high volume resistivity, and enhanced safety during operation. The HR-FR insulation is capable of withstanding temperatures up to 105°C and is designed to resist the spread of fire, making the cables suitable for critical industrial and control panel applications where safety and durability are essential.

Sheathing :

Best in class soft PVC is used for sheathing of the cable which ensures high flexibility.

Marking :

Sequential meter marking with generic marking "HMPBintex" at one meter interval.

Packing :

Available in standard packing of 100 mtr. Drum packing 500 mtr and above available on request.

SIZE DIMENSIONS AND RATINGS

SIZE	NO. OF STRANDS / NOMINAL DIA. OF CONDUCTOR	NOMINAL INSULATION THICKNESS	NOMINAL THICKNESS OF SHEATH				APPROX. OVERALL DIAMETER				CURRENT RATING	VOLTAGE / AMP PER MTR.		MAX. D.C. CONDUCTOR RESISTANCE AT 20C
			2 CORE	3 CORE	4 CORE	5 CORE	2 CORE	3 CORE	4 CORE	5 CORE		DC OR SI. PH. AC	3 PH. AC	
Sq. mm	Nos. / mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Amps	mv	mv	mv
0.50	16/0.20	0.60	0.90	0.90	0.90	0.90	6.90	7.30	8.00	8.70	4.0	83.00	72.00	72.00
0.75	24/0.20	0.60	0.90	0.90	0.90	0.90	7.30	7.70	8.40	9.20	7.0	56.00	48.00	48.00
1.00	32/0.20	0.60	0.90	0.90	0.90	1.00	7.60	8.10	8.80	9.60	11.0	43.00	37.00	37.00
1.50	30/0.25	0.60	0.90	0.90	1.00	1.00	8.90	9.40	10.40	11.40	14.0	31.00	26.00	26.00
2.50	50/0.25	0.70	1.00	1.00	1.00	1.00	10.30	10.90	12.00	13.20	19.0	18.00	16.00	16.00
4.00	56/0.30	0.80	1.00	1.00	1.00	1.10	11.60	12.40	13.60	15.30	26.0	11.00	9.60	9.60
6.00	84/0.30	0.80	1.10	1.20	1.20	-	13.00	13.80	15.50	-	33.0	7.30	6.00	6.00
10.00	141/0.30	1.00	1.30	1.40	1.40	-	16.50	17.70	19.50	-	45.0	4.40	3.50	3.50
16.00	266/0.30	1.00	1.40	1.40	1.40	-	19.40	20.60	23.00	-	60.0	2.80	2.20	2.20
25.00	196/0.40	1.20	1.40	1.50	1.60	-	23.80	25.60	28.50	-	75.0	0.20	1.40	1.40
35.00	276/0.40	1.20	1.60	1.60	1.70	-	27.20	29.30	32.70	-	95.0	0.20	1.00	1.00

Note : * The number and diameter of conductor strands are for reference only. Conductor resistance as per IS:8130 is the governing criteria
The above data is indicative and may be revised without prior intimation. As per IS:3961 (Part V)-1968



SIZE AND DIMENSION CHART OF CONTROL FLEXIBLE CABLES

SIZE	0.50 SQ.MM			0.75 SQ.MM			1.00 SQ.MM			1.50 SQ.MM			2.50 SQ.MM		
NO. OF CORES	NOMINAL INSULATION THICKNESS	NOMINAL SHEATH THICKNESS	MAX. OVERALL DIA. OF CABLE	NOMINAL INSULATION THICKNESS	NOMINAL SHEATH THICKNESS	MAX. OVERALL DIA. OF CABLE	NOMINAL INSULATION THICKNESS	NOMINAL SHEATH THICKNESS	MAX. OVERALL DIA. OF CABLE	NOMINAL INSULATION THICKNESS	NOMINAL SHEATH THICKNESS	MAX. OVERALL DIA. OF CABLE	NOMINAL INSULATION THICKNESS	NOMINAL SHEATH THICKNESS	MAX. OVERALL DIA. OF CABLE
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
6	0.60	0.90	9.50	0.60	1.00	10.00	0.60	1.00	10.50	0.60	1.00	12.40	0.70	1.10	14.50
7	0.60	0.90	9.50	0.60	1.00	10.00	0.60	1.00	10.50	0.60	1.00	12.40	0.70	1.10	14.50
8	0.60	1.00	11.10	0.60	1.00	11.80	0.60	1.00	12.40	0.60	1.10	14.70	0.70	1.20	17.30
9	0.60	1.00	11.80	0.60	1.10	12.40	0.60	1.10	13.10	0.60	1.10	15.60	0.70	1.30	18.30
10	0.60	1.00	12.00	0.60	1.10	12.70	0.60	1.10	13.40	0.60	1.10	16.00	0.70	1.30	18.70
11	0.60	1.00	12.00	0.60	1.10	12.70	0.60	1.10	13.40	0.60	1.10	16.00	0.70	1.30	18.70
12	0.60	1.00	12.40	0.60	1.10	13.10	0.60	1.10	13.90	0.60	1.10	16.50	0.70	1.30	19.40
13	0.60	1.00	13.10	0.60	1.10	13.80	0.60	1.10	14.60	0.60	1.20	17.40	0.70	1.30	20.50
14	0.60	1.10	13.10	0.60	1.10	13.80	0.60	1.10	14.60	0.60	1.20	17.40	0.70	1.30	20.50
15	0.60	1.10	13.50	0.60	1.20	14.30	0.60	1.20	15.10	0.60	1.20	18.10	0.70	1.40	21.30
16	0.60	1.10	13.80	0.60	1.20	14.60	0.60	1.20	15.40	0.60	1.20	18.40	0.70	1.40	21.70
17	0.60	1.10	14.60	0.60	1.20	15.40	0.60	1.20	16.30	0.60	1.30	19.50	0.70	1.40	23.00
18	0.60	1.10	14.60	0.60	1.20	15.40	0.60	1.30	16.30	0.60	1.30	19.50	0.70	1.40	23.30
19	0.60	1.10	14.60	0.60	1.20	15.40	0.60	1.30	16.30	0.60	1.30	19.50	0.70	1.40	23.80
20	0.60	1.20	15.40	0.60	1.30	16.30	0.60	1.40	17.30	0.60	1.40	20.70	0.70	1.50	24.40
21	0.60	1.20	15.40	0.60	1.30	16.30	0.60	1.40	17.30	0.60	1.40	20.70	0.70	1.50	25.00
22	0.60	1.20	16.30	0.60	1.30	17.30	0.60	1.40	18.20	0.60	1.40	21.90	0.70	1.50	25.80
23	0.60	1.20	16.30	0.60	1.30	17.30	0.60	1.40	18.20	0.60	1.40	21.90	0.70	1.50	26.30
24	0.60	1.20	17.10	0.60	1.30	18.20	0.60	1.40	19.20	0.60	1.40	23.00	0.70	1.50	27.20
25	0.60	1.20	17.10	0.60	1.30	19.00	0.60	1.40	19.20	0.60	1.40	23.00	0.70	1.50	27.90

Note: Cable selection may vary depending on voltage drop, cable length, and installation conditions.

CONSTRUCTION OF ROUND MULTICORE FLEXIBLE CABLES



3 CORE XLPE + PVC SUBMERSIBLE FLAT CABLES

Application :

These cables are mainly used in submersible pump connections. The outer sheath is made with special formulation which ensures that the cable resists extreme environmental conditions, water, oil and grease.

Conductor :

The conductors are drawn from bright electrolytic grade copper and bunched together as per relevant class of IS : 8130.

Insulation :

The conductors are insulated with advanced dual layer XLPE + PVC insulation for enhanced electrical safety, thermal stability, and longer service life. The XLPE layer provides high dielectric strength, superior heat resistance, and better current carrying capacity, while the outer PVC layer offers excellent flexibility, moisture resistance, and mechanical protection.

This dual coated insulation ensures reliable performance under continuous load and demanding operating conditions.

Sheathing :

Best in class soft PVC is used for sheathing of the cable which ensures high flexibility.

Marking :

Sequential meter marking with generic marking "HMPBintex" at one meter interval.

Core Colour :

● Red ● Yellow ● Blue

SIZE DIMENSIONS AND RATINGS CHART FOR 3 CORE FLAT SUBMERSIBLE CABLES

CONDUCTOR CONSTRUCTION		CONDUCTOR RESISTANCE AT 20C°	NOMINAL INSULATION THICKNESS	NOMINAL SHEATH THICKNESS	APPROX. OVERALL DIMENSIONS (WXH) (+/- 0.5)	CURRENT CARRYING CAPACITY
CROSS SECTIONAL AREA	NO. OF STRANDS/ MAX. DIA. OF STRANDS					
Sq. mm	Nos. / mm	(ohm/km) / Max	mm	mm	mm	Amp.
3C x 1.00	32 / 0.200	19.500	0.60	0.90	11.0 x 5.40	12
3C x 1.50	30 / 0.250	13.300	0.60	0.90	12.0 x 5.60	18
3C x 2.50	50 / 0.250	7.980	0.70	1.00	13.0 x 6.20	24
3C x 4.00	56 / 0.300	4.950	0.80	1.00	15.3 x 7.10	28
3C x 6.00	84 / 0.300	3.300	0.80	1.10	19.2 x 8.40	36
3C x 10.00	140 / 0.300	1.910	1.00	1.40	24.2 x 10.40	48
3C x 16.00	126 / 0.400	1.210	1.00	1.40	29.0 x 12.40	64
3C x 25.00	196 / 0.400	0.780	1.20	2.00	36.5 x 15.70	80
3C x 35.00	276 / 0.400	0.554	1.20	2.00	40.5 x 17.20	100
3C x 50.00	396 / 0.400	0.386	1.40	2.20	46.5 x 19.30	130

Note: Cable selection may vary depending on voltage drop, cable length, and installation conditions.

UNIQUE FEATURES :



1ST IN INDIA TO PROVIDE 3 LAYER COVERING ABOVE THE BUNCHED COPPER



XLPE INSULATION ENSURES HIGHER CURRENT CARRYING CAPACITY



RoHS PVC SLEEVE PROTECTS THE XLPE INSULATION FROM CRACKING



100% ACTUAL GAUGE



50% HIGHER CURRENT CARRYING CAPACITY THAN NORMAL PVC FLAT CABLE



HIGH ABRASION RESISTANT PVC WITH KNURLING FOR FOR EXTRA GRIP

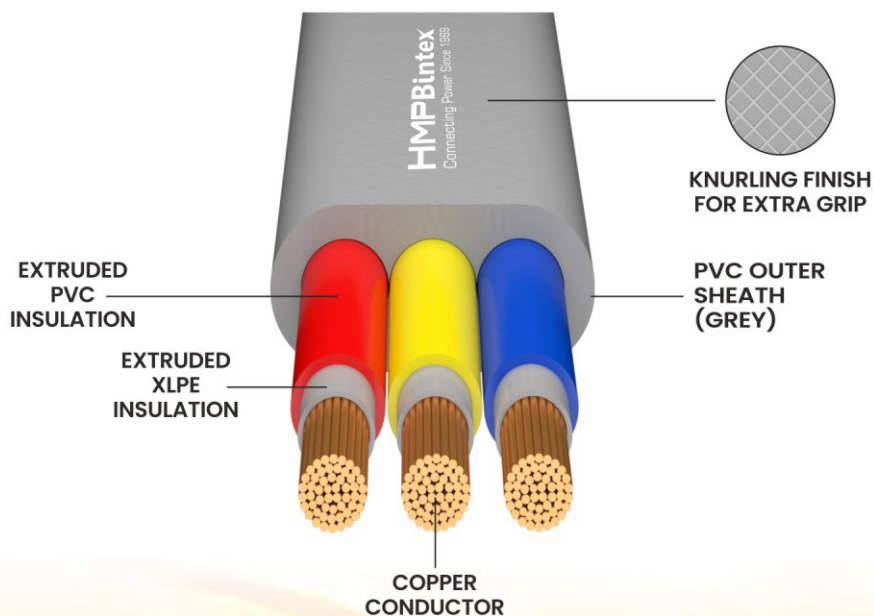


SELECTION CHART OF CABLES

SUBMERSIBLE PUMPSET CABLE SELECTION CHART FOR 415 V, 3 PHASE - 50Hz.																			
HP	LENGTH IN METERS																		
	10	20	30	40	50	60	70	80	90	100	120	140	160	180	200	250	300	350	400
1.0/1.5	1.0	1.0	1.0	1.0															
3.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0
4.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	6.0
5.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	4.0	4.0	6.0	6.0	6.0	10.0
6.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0
7.5S	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0	10.0	16.0
7.5D	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0
10.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0
12.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0	10.0	16.0
15.0	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	6.0	6.0	6.0	10.0	10.0	10.0	10.0	16.0
17.5	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0
20.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0
25.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	10.0	10.0	10.0	16.0	16.0	16.0	16.0	25.0
30.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	16.0	16.0	25.0
40.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	16.0	16.0	16.0	25.0	25.0	25.0	25.0	35.0
50.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	25.0	25.0	35.0	35.0	35.0	50.0

Note: Cable selection may vary depending on voltage drop, cable length, and installation conditions.

CONSTRUCTION OF 3 CORE XLPE + PVC SUBMERSIBLE FLAT CABLES



3 CORE PVC SUBMERSIBLE FLAT CABLES

Application :

These cables are mainly used in submersible pump connections. The outer sheath is made with special formulation which ensures that the cable resists extreme environmental conditions, water, oil and grease.

Conductor :

The conductors are drawn from bright electrolytic grade copper and bunched together as per relevant class of IS : 8130.

Insulation :

The conductors are insulated with specially formulated high grade PVC compound providing excellent electrical insulation, flexibility, moisture resistance, and mechanical protection. The insulation ensures reliable performance, durability, and long service life under normal operating conditions.

Sheathing :

Best in class soft PVC is used for sheathing of the cable which ensures high flexibility.

Marking :

Sequential meter marking with generic marking "HMPBintex" at one meter interval.

Core Colour :

● Red ● Yellow ● Blue

SIZE DIMENSIONS AND RATINGS CHART FOR 3 CORE FLAT SUBMERSIBLE CABLES

CONDUCTOR CONSTRUCTION		CONDUCTOR RESISTANCE AT 20C°	NOMINAL INSULATION THICKNESS	NOMINAL SHEATH THICKNESS	APPROX. OVERALL DIMENSIONS (WXH) (+/- 0.5)	CURRENT CARRYING CAPACITY
CROSS SECTIONAL AREA	NO. OF STRANDS/ MAX. DIA. OF STRANDS					
Sq. mm	Nos. / mm	(ohm/km) / Max	mm	mm	mm	Amp.
3C x 1.00	14 / 0.300	19.500	0.60	0.90	11.00 x 5.40	12
3C x 1.50	22 / 0.300	13.300	0.60	0.90	12.00 x 5.60	14
3C x 2.50	36 / 0.300	7.980	0.70	1.00	13.00 x 6.20	18
3C x 4.00	56 / 0.300	4.950	0.80	1.00	15.30 x 7.10	26
3C x 6.00	84 / 0.300	3.300	0.80	1.10	19.20 x 8.40	31
3C x 10.00	140 / 0.300	1.910	1.00	1.40	24.20 x 10.40	42
3C x 16.00	126 / 0.400	1.210	1.00	1.40	29.00 x 12.40	57
3C x 25.00	196 / 0.400	0.780	1.20	2.00	36.50 x 15.70	72
3C x 35.00	276 / 0.400	0.554	1.20	2.00	40.50 x 17.20	90
3C x 50.00	396 / 0.400	0.386	1.40	2.20	46.50 x 19.30	115

Note: Cable selection may vary depending on voltage drop, cable length, and installation conditions.



UNIQUE FEATURES :



HIGH HEAT RESISTANCE



FLAME RETARDANT



FLEXIBILITY



ABRASION RESISTANCE



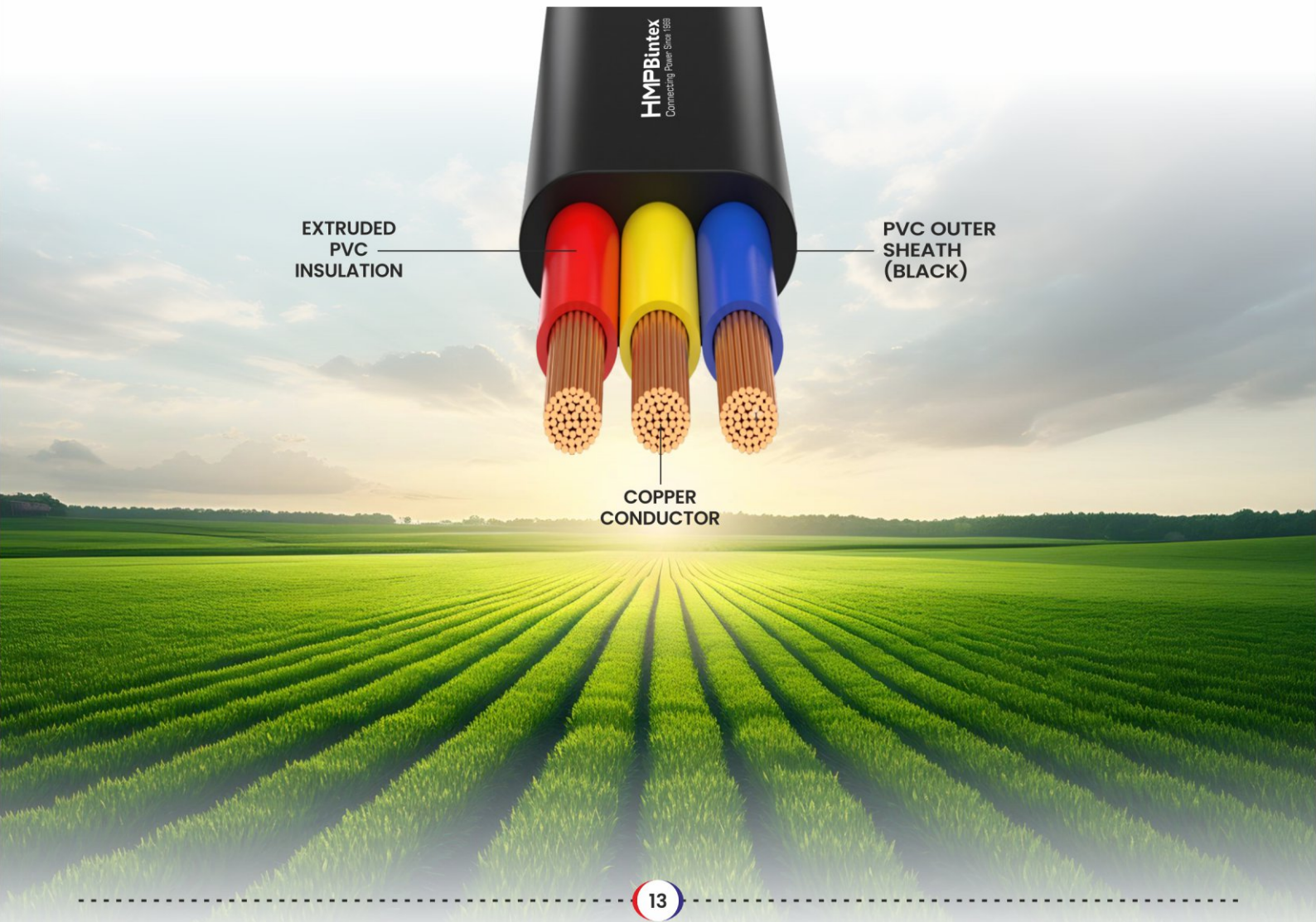
MOISTURE RESISTANCE

SELECTION CHART OF CABLES

SUBMERSIBLE PUMPSET CABLE SELECTION CHART FOR 415 V, 3 PHASE - 50Hz.																		
HP	LENGTH IN METERS																	
	10	20	30	40	50	60	70	80	90	100	120	140	160	180	200	250	350	400
1.0/1.5	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	6.0	6.0	10.0	10.0	16.0
3.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	10.0	10.0	16.0	16.0
4.0	1.5	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	16.0	16.0	25.0
5.0	1.5	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	16.0	25.0	25.0
6.0	1.5	1.5	1.5	1.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	16.0	16.0	25.0	35.0
7.5S	2.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	16.0	16.0	25.0	35.0	50.0
7.5D	1.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	16.0	16.0	16.0	35.0	25.0
10.0	2.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	6.0	6.0	6.0	10.0	10.0	16.0	16.0	25.0	35.0	50.0
12.5	2.5	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	16.0	16.0	25.0	25.0	35.0	50.0
15.0	2.5	2.5	2.5	2.5	4.0	4.0	4.0	6.0	6.0	10.0	10.0	16.0	16.0	16.0	25.0	35.0	35.0	50.0
17.5	4.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0	16.0	16.0	16.0	25.0	35.0	50.0	50.0
20.0	4.0	4.0	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0	16.0	16.0	25.0	25.0	35.0	50.0	50.0	50.0
25.0	4.0	4.0	4.0	4.0	6.0	6.0	6.0	10.0	10.0	16.0	16.0	25.0	25.0	35.0	35.0	50.0	50.0	50.0
30.0	6.0	6.0	6.0	6.0	6.0	6.0	10.0	10.0	10.0	16.0	16.0	25.0	25.0	35.0	35.0	50.0	50.0	50.0
40.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	16.0	25.0	25.0	35.0	35.0	50.0	50.0	50.0	50.0
50.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	16.0	25.0	25.0	35.0	35.0	50.0	50.0	50.0	50.0

Note: Cable selection may vary depending on voltage drop, cable length, and installation conditions.

CONSTRUCTION OF 3 CORE PVC SUBMERSIBLE FLAT CABLES



ALUMINIUM AND COPPER XLPE POWER CABLES

Application :

XLPE Armoured cables are generally used for power transmission and distribution line rated at 1100v. In comparison with PVC insulated power cable, XLPE boast not only characteristics of excellent electricity mechanism, and heat stress but also has simple structure, light weight, no restriction on laying drop & high temperature allowance for long term working.

Conductor :

Conductors are made from Electrolytic Aluminium/Copper conforming to IS : 8130, and are compact circular or compact shaped. Stranding makes the cable flexible while shaping makes them compact.

Insulation :

Shaped conductors are insulated with XLPE compound which has high Insulation and volume resistivity, along with higher current carrying capacity than PVC.

Inner Sheath :

Laid up and twisted conductors are provided with best in class extruded PVC which acts as a bedding for G.I. wire/strip armouring.

Armouring :

Best in class hot dipped GI wire/strip are used for armouring the cable.

Outer-Sheath:

Specially formulated ST-2 compound is used for outer sheathing of XLPE cables.

Marking :

Sequential meter marking with generic marking "HMPBintex" at one meter interval.

Packing :

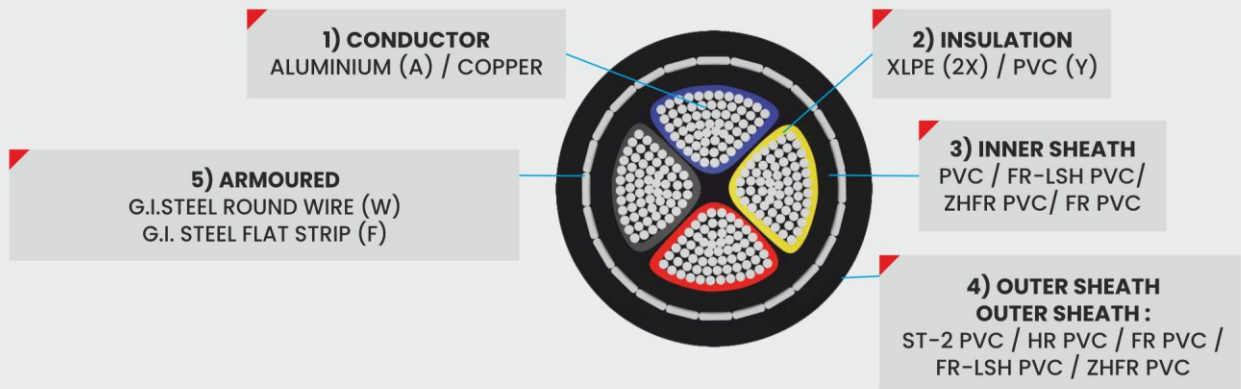
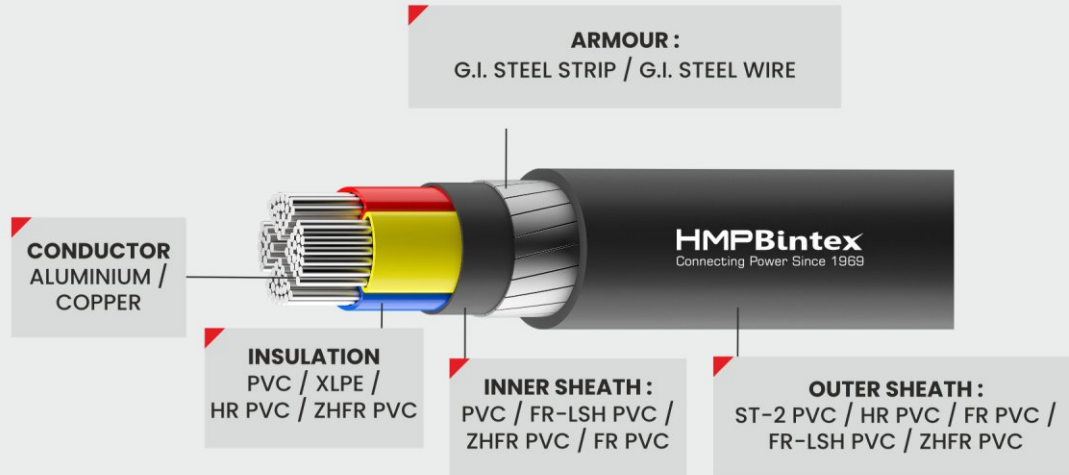
Drum packing 500 mtr and above available on request.

Core Colour :

● Red ● Yellow ● Blue ● Black



CONSTRUCTION OF ALUMINIUM AND COPPER XLPE POWER CABLES



SIZE	Single Core 1.50 to 1000 SQ.MM Multi Core 1.50 to 630 SQ.MM
NO. OF CORES	1 / 2 / 3 / 3.5 / 4
CONDUCTOR	Stranded / Solid / Circular / Shaped as per IS:8130, IEC 60228, BS 6360
MATERIAL	Aluminium / Copper
INSULATION	PVC / XLPE / HR PVC / Zero Halogen
ARMOUR	G.S.STEEL ROUND WIRE / G.S.STEEL FORMED WIRE (STRIP) as per IS 3975, IEC 60502 P-1.
OUTER SHEATH	PVC / HR PVC / FR / FRLS PVC / Zero Halogen as per IS 5831, IEC 60502, BS 7655.
VOLTAGE GRADE	1100 V

WELDING CABLES

APPLICATION :

Specifically designed for machine welding and hand welding to work in damp, dry, indoor and outdoor locations.

TYPES OF WELDING CABLES :

- NBR single insulated
- NBR insulated + NBR sheathed
- HOFR insulated + NBR sheathed
- HOFR single Insulated

CONSTRUCTION



TECHNICAL INFORMATION

CROSS SECTIONAL AREA	NO. OF STRANDS/ DIA. OF COPPER	NOMINAL THICKNESS	OUTER DIA APPROX.	MAX. CONDUCTOR RESISTANCE AT 20°C	CURRENT RATING					
					WELDING APPLICATIONS					
					DUTY CYCLE					
					100%	85%	80%	60%	35%	20%
Sq. mm	Nos. / mm	mm	mm	ohm / km	amp	amp	amp	amp	amp	amp
10.00	320 / 0.200	2.00	10.04	1.910	100	100	100	101	106	116
16.00	513 / 0.200	2.00	11.25	1.210	135	136	136	139	150	174
25.00	783 / 0.200	2.00	12.96	0.780	180	182	183	190	213	254
35.00	1121 / 0.200	2.00	14.82	0.554	225	229	231	243	279	338
50.00	702 / 0.300	2.20	16.78	0.386	285	293	296	316	371	457
70.00	999 / 0.300	2.40	19.17	0.272	355	367	373	403	482	602
95.00	1332 / 0.300	2.60	21.88	0.206	430	448	456	498	606	765
120.00	1702 / 0.300	2.80	24.03	0.161	500	524	534	587	721	917

Note : * The number and diameter of conductor strands are for reference only. Conductor resistance as per IS:8130 is the governing criteria
The above data is indicative and may be revised without prior intimation. As per IS:3961 (Part V)-1968

RATING FACTORS FOR VARIATION IN AMBIENT TEMPERATURE

Ambient Temperature °C	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°
Rating Factor	1.04	1.00	0.96	0.91	0.87	0.82	0.76	0.69	0.64	0.57

UNIQUE FEATURES :



OUTSTANDING
ELECTRICAL AND
MECHANICAL
STRENGTH



HEAT AND OIL
RESISTANT (HOFR)



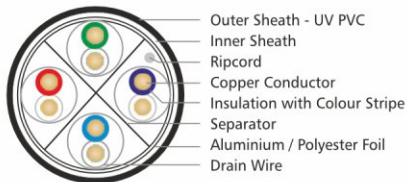
EXCEPTIONALLY
HIGH RESISTANT
TO CUTS AND
ABRASION



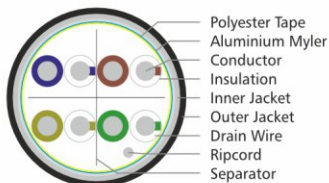
EXCELLENT
FLEXIBILITY FOR
LONG LASTING LIFE



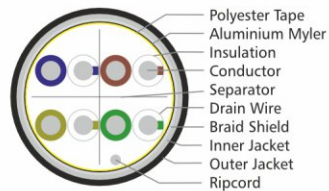
LAN CABLES



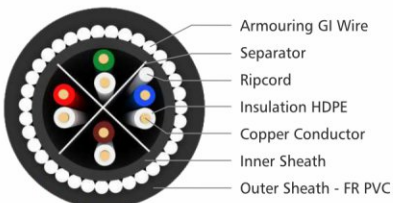
CAT 6 UTP



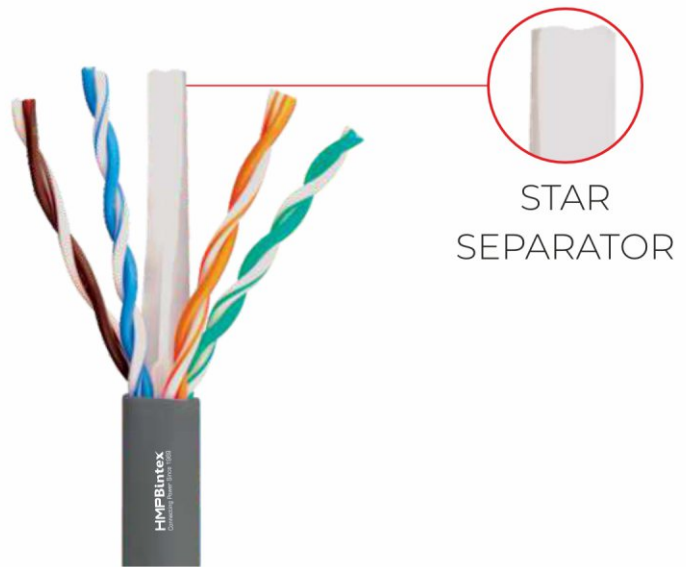
CAT 5E UTP



CAT 6 OUTDOOR STP



CAT -6 ARM



TECHNICAL INFORMATION

SIZE	PACKING	COLOUR
CAT 5E	305 Mtr. Tangle Free	Light Grey
CAT 6	305 Mtr. Tangle Free	Light Grey
CAT 6 OUTDOOR	305 Mtr. Drum	Black
CAT 6 ARM	305 Mtr. Drum	Black

UNIQUE FEATURES :



LOW STRUCTURAL
RETURN LOSS



MAXIMUM
NOISE IMMUNITY



HIGH ACR VALUES
(LOW BIT ERROR RATE)



HIGH DATA TRANSFER
SPEEDS
(UPTO 1000 MBPS)

WHY CHOOSE HMPBintex?

Huge manufacturing capacity :

- Factory area spread across 50,000 Sq. Ft.
- Copper production and processing capacity of more than 2000 Tonnes/Year
- Fully automated plant with state of the art machinery

Full range of products available under single roof :

- House wires : HRFR, FRLS, ZHFR
- Single and multicore flexible cables
- Flat submersible cables
- Supersoft halogen cables
- Aluminium and copper armoured and unarmoured cables
- Welding cables
- LAN cables
- Fire survival cables

Quality over Quantity :

- Our products pass through rigorous testing before they are dispatched.
- Fully functional laboratory with best in class testing equipments for IS 694 and IS 7098 approvals
- ISO 9001, CE, ERDA, CPRI, RoHS and REACH approved product
- 100% Online spark testing

Did You Know?

- We have a 50 year old legacy. When you buy **HMPBintex** , you buy 50 years of experience with it.
- Each month we manufacture wires and cables more than the Earth's diameter.

Connecting Power Since
1969

HMP BINTEX CABLES LLP

Gate Number - 4 & 5, Mayur Nagar Main Road, Near Rajmoti Oil Mill, Bhavnagar Road, Rajkot - 360003.

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