

POLYCAB ®
WIRES & CABLES

P R O F I L E

& TECHNICAL CATALOGUE



INDIA'S FOREMOST MANUFACTURER OF WIRES & CABLES

Establishing, strengthening and sustaining the development of a strong company not only means deploying resources, expertise and know how, but also great determination and confidence in the future. Through all these years of intensive activity and quick expansions, the action towards common goal to stand out as a strong, consistent group, constantly striving for improvement have driven Polycab to attain and achieve a leading position in the Indian cable industry.

Polycab, an ISO 9001:2000 company is the largest Wire & Cable Manufacturer in India with a proven track record of over three decades. The fastest growing company in the Indian cable industry, Polycab group has projected sales turnover of 725 million US\$ in the FY 09-10 and has targeted to cross 900 million US\$ sales turnover in FY 10-11.

From a modest beginning with Wires & cables, over three decades ago, Polycab set up a state-of-the art manufacturing facility at Daman in 1996. The last 3 decades have seen the core business develop along different product lines: - Panel board wires, Building wires, Low voltage cables, Medium voltage cables, Extra high voltage cables, Fire survival & Fire resistant cables, Telecommunication cables, Instrumentation cables and Aerial bunched cables. In the manufacture of cables, a competitive edge lies not so much in product innovation as in providing consistent quality, guaranteeing reliability and ready availability. Polycab's Daman factory was created to address these key market determinants.

The manufacturing set up is sourced out from the world renowned Machinery and Technology suppliers with constant upgradation. Polycab is now expanding to three times its existing capacity at their new premises in Halol, Gujrat, which is spread over an area of 150 acres. On completion it shall be one of the largest Cable manufacturing company in Asia.

Our primary focuscustomer satisfaction

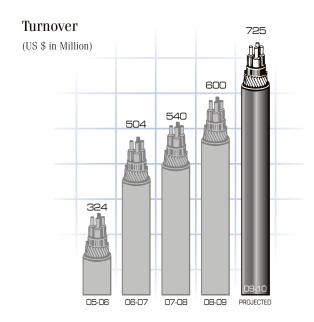
POLYCAB derives its strength from its customers. The growth of the customer is a prerequisite to the growth of the company and hence customers' satisfaction is its prime objective. In an on going process to improve Customer Satisfaction Polycab offers a variety of services:

- Competitive prices
- Consistent quality
- Just in time delivery
- Product development for a changing market
- A targeted stocking policy
- Technical Support for Applications / Projects

A growing international reputation

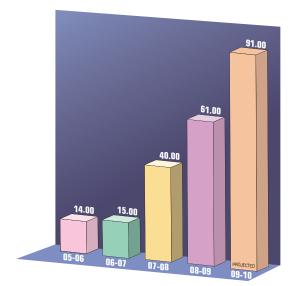
The Polycab reputation for robust, long life, top quality electric wires & cables is well established in India where many cables are still in operation after more than 20 years of service. In the recent years we have also earned international recognition by supplying cables to various Utilities, EPC Contractors and turnkey projects world over.

THE GROWTH



THE EXPORTS

 $(US \ \$ \ in \ Million)$





QUALITY & RELIABILITY

Our aim is to achieve the highest level of product quality, reliability and safety, but we also know that this must be achieved at the lowest practical cost.

QUALITY ASSURANCE AND QUALITY MANUFACTURING

Quality assurance is intrinsic to POLYCAB. We confirm to ISO 9001:2000 standards in our manufacturing processes and overall company operation. Our management system has been defined by experienced personnel who develop, implement and monitor quality assurance procedures. The same rigour is applied to the monitoring of materials and services provided by the venders so that these also meet our quality system standards.

QUALITY PEOPLE

No quality is possible without the right people to carry through on the program. Everyone, from administrative staff to expert engineers, are committed to constant improvement. This commitment is backed by intensive training and education within an environment of Trust, Respect, Participation and Recognition.

MISSION

To build a strong brand and maintain superior quality for customer satisfaction

VISION

Achieve Numero Uno position in the cable industry in terms of quality, volume and turnover in the Asian continent.

QUEST FOR QUALITY

POLYCAB Wires and Cables serves as a testimonial that attention to detail, production of top quality products & timely service are still as much in style as they were over 30 years ago.

It starts with careful selection of raw materials, on-line computerised control system on all its critical processes, culminating with a final product that provides consistency and long life in performance.

We recognize that

quality inspires quality, and the best attracts the best.

And by any measures it is clear that the constant quest for quality is central to the very core of our leadership aspirations.

QUALITY CERTIFICATIONS

- Quality systems certification by underwriters laboratories, USA for ISO 9001:2000
- Approved by BSNL for jelly filled telephone cables upto 2000 pair
- BIS licenses for IS- 694, IS 1554-1,
 IS 1554-2, IS 7098-1, IS 7098-2,
 IS 9857, IS 2465, IS 9968, IS 8783-4
- All products have been successfully tested by testing house of international repute such as KEMA, CPRI & ERDA
- BASEC approved for product certification



QUALITY POLICY

We at POLYCAB, constantly aim to produce quality product to the customer's satisfaction through our Quality Management System.



WE ARE APPROVED BY ALL THE MAJOR CONSULTANTS / SPECIFIERS LIKE:

- AKER KVAERNER
- BECHTEL LTD.,U.K.
- MOTT MCDONALD
- DESEIN
- Ε/L
- FITCHNER
- GHERZI EASTERN
- HOLTEC
- JACOBS H & G
- M.N. DASTUR

- MECON
- PDIL
- TCE
- TECHNIMONT ICB
- TOYO ENGG.
- UHDE INDIA
- SPECTRAL
- AVANTE GARDE
- LURGI

3RD PARTY APPROVALS

OUR CABLES ARE TYPE TESTED AND ACCEPTED FOR QUALITY BY THE FOLLOWING 3RD PARTY INSPECTING AGENCIES:

- BVIS
- CEIL
- CPRI
- DNV
- ERDA
- IRS

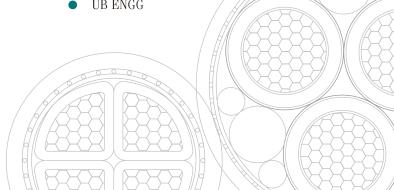
- LLOYDS
- MECON
- RITES
- SGS
- TUV
- KEMA

MAJOR GLOBAL CONTRACTORS

WE ARE PREFFERED VENDORS TO ALL THE MAJOR CONTRACTORS LIKE:

- ABB
- ALSTOM
- BAJAJ ELECTRICALS
- BHEL
- CROMPTON GREAVES
- DAELIM
- GE POWER
- HINDUSTAN DORR-OLIVER
- HYUNDAI
- DODSAL ENGINEERING

- LINDE ENGINEERING
- IRCON
- JYOTI STRUCTURES
- LARSEN & TOUBRO
- PUNJ LLOYD
- RELIANCE ENERGY
- SAMSUNG
- SIEMENS
- THERMAX
- UB ENGG



KEMA CERTIFICATIONS





450 / 750 VOLT PVC INSULATED STRANDED WIRES AS PER BS 6004

Nominal Conductor Area (mm²)	Conductor (No/mm)	Insulation Thickness (mm)	Maximum O/D (mm)	Approx. Weight (Kg/Km)
1.5	7/0.53	0.7	3.5	23
2.5	7/0.67	0.8	4.2	35
4	7/0.85	0.8	4.8	51
6	7/1.04	0.8	5.4	71
10	7/1.35	1.0	6.8	120
16	7/1.70	1.0	8.0	180
25	7/2.14	1.2	9.8	285
35	19/1.53	1.2	11.0	380
50	19/1.78	1.4	13.0	510
70	19/2.14	1.4	15.0	720
95	19/2.52	1.6	17.0	990
120	37/2.03	1.6	19.0	1230
150	37/2.25	1.8	21.0	1510
185	37/2.52	2.0	23.5	1900
240	61/2.25	2.2	26.5	2490
300	61/2.52	2.4	29.5	3100
400	61/2.85	2.6	33.5	3950

Standard : BS 6004.Voltage : 450/750 V.

Conductor: Stranded Copper Class 2.

Insulation : PVC.

Colour : Red, Yellow, Blue, Black,

Green/Yellow.

Temperature Rating: 70°C operating temperature.

Note:

1) Above data is approximate and subject to manufacture tolerance.

Wires can be offered with HR & LSF properties.

3) Other colours are available on request.

4) Wires can be offered with IEC & VDE specification.

450/750 VOLT PVC INSULATED FLEXIBLE WIRES AS PER BS 6004

Nominal Conductor Area (mm²)	Conductor (No/mm)	Insulation Thickness (mm)	Maximum O/D (mm)	Approx. Weight (Kg/Km)
0.5	16/0.2	0.6	2.2	8.5
0.75	24/0.2	0.6	2.5	11
1	14/0.3	0.6	2.8	13.5
1.5	22/0.3	0.7	2.9	20.5
2.5	36/0.3	0.8	3.5	30
4	56/0.3	0.8	4.3	45
6	84/0.3	0.8	5.3	65
10	80/0.4	1.0	6.7	110
16	126/0.4	1.0	8.2	170
25	196/0.4	1.2	10.0	270
35	276/0.4	1.2	11.3	360
50	396/0.4	1.4	13.5	510
70	360/0.5	1.4	15.5	700
95	485/0.5	1.6	18.5	1000
120	608/0.5	1.6	20.9	1250
150	750/0.5	1.8	22.5	1500
185	925/0.5	2.0	24.6	1900
240	1221/0.5	2.2	27.6	2500
300	1527/0.5	2.4	32.2	3150
400	2036/0.5	2.6	35.7	4150

Standard : BS 6004.Voltage : 450/750 V.

Conductor : Flexible Copper Class 5.

• Insulation : PVC.

Colour : Red, Yellow, Blue, Black, Green/Yellow.

Temperature Rating: 70°C operating temperature.

- 1) Above data is approximate and subject to manufacture tolerance.
- Wires can be offered with HR & LSF properties.
- 3) Other colours are available on request.
- 4) Wires can be offered with IEC &VDE specification.



450/750 VOLT PVC INSULATED AND SHEATHED FLEXIBLE CABLE

27 1 1	37 . 1			
Nominal	Nominal	Average		Approx.
Conductor	Conductor	Insulation	Maximum	Cable
Area	Stranding	Thickness	O/D (mm)	Weight
(mm ²)	(#/mm)	(mm)		(Kg/Km)
Two core round	l			
0.75	24/0.20	0.6	7.6	59
1.0	32/0.20	0.6	8.0	67
1.5	30/0.25	0.7	9.0	90
2.5	50/0.25	0.8	11.0	141
4.0	56/0.30	0.8	12.0	190
Three core rou	nd			
0.75	24/0.20	0.6	8.0	69
1.0	32/0.20	0.6	8.4	80
1.5	30/0.25	0.7	9.8	113
2.5	50/0.25	8.0	12.0	176
4.0	56/0.30	8.0	13.0	236
Four core roun	d			
0.75	24/0.20	0.6	8.6	78
1.0	32/0.20	0.6	9.4	101
1.5	30/0.25	0.7	11.0	141
2.5	50/0.25	8.0	13.0	214
4.0	56/0.30	0.8	14.0	286

Standard : BS 6500.
Nominal Voltage : 450/750 V.

• **Conductor** : Flexible Copper Class 5.

Insulation : PVC.

Core Identification : 2 Core - Blue, Brown

3 Core - Green/Yellow, Blue, Brown 4 Core - Green/Yellow, Black, Blue, Brown

• Sheath : PVC.

Temperature Rating :

70°C operating temperature.

Note :

1) Above data is approximate and subject to manufacture tolerance.

2) Cables can be offered with HR & LSF properties.

B) Cables can be offered with IEC & VDE specification.

450/750 VOLT PVC INSULATED AND SHEATHED TWIN CORE FLAT CABLE

Nominal Conductor Area (mm²)	Nominal Conductor Stranding (#/mm)	Average Insulation Thickness (mm)	Average Sheath Thickness (mm)	Maximum O/D (mm)	Approx. Cable Weight (Kg/Km)
Without Earth (Conductor				
2 x 1.5	1/1.38	0.7	0.9	5.4 x 8.4	60
2 x 2.5	1/1.78	0.8	1	6.2 x 9.8	92
2 x 4.0	7/0.85	0.8	1	7.2 x 11.5	140
2 x 6.0	7/1.04	0.8	1.1	8.0 x 13.0	192
With Earth Con	ductor				
$2 \times 1.5 + 1$	1/1.38	0.7	0.9	5.4 x 9.6	75
$2 \times 2.5 + 1$	1/1.78	0.8	1	6.2 x 11.5	108
$2 \times 4.0 + 1.5$	7/0.85	0.8	1	7.2 x 13.0	105
$2 \times 6.0 + 2.5$	7/1.04	0.8	1.1	8.0 x 15.0	230

Standard : BS 6004.

• Nominal Voltage : 450/750 V.

Conductor : Solid / Stranded Copper.

Insulation : PVC.

Core Identification : 2 Core - Red, Black
 Sheath : PVC.

• **Temperature Rating**: 70°C operating temperature.

Note:

1) Above data is approximate and subject to manufacture tolerance.

Cables can be offered with HR & LSF properties.

B) Cables can be offered with IEC & VDE specification.

450/750 VOLT PVC INSULATED AND SHEATHED ROUND SUBMERSIBLE CABLE

Cond	uctor	Average	App thickn	rox. ess of	Approx. thickness of			mum erall
Area	Number an.	Insulation thickness	Inner Sneath Outersheath dia				neter ninal	
(Sq.mm)	of Wire (mm)	(mm)	3 Core (mm)	4 core 3 Core (mm) (mm)		4 Core (mm)	3 Core (mm)	4 Core (mm)
1.5	30/0.25	0.6	1.0	1.0	1.2	1.2	10.8	12.0
2.5	50/0.25	0.7	1.0	1.0	1.2	1.2	13.2	13.8
4.0	56/0.30	0.8	1.0	1.0	1.2	1.4	14.2	15.2
6.0	84/0.30	0.8	1.0	1.0	1.4	1.4	16.5	18.5
10.0	140/0.30	1.0	1.0	1.0	1.4	1.4	19.1	22.0
16.0	126/0.40	1.0	1.0	1.0	1.4	1.4	23.5	25.0
25.0	196/0.40	1.2	1.0	1.0	1.6	1.6	28.5	31.0
35.0	276/0.40	1.2	1.0	1.0	2.0	2.0	30.5	32.8
50.0	396/0.40	1.4	1.0	1.0	2.2	2.2	35.9	39.2

Nominal Voltage: 450/750 V.

Conductor : Flexible class 5 Copper.

• Insulation : PVC.

• Sheath: PVC.

Temperature Rating: 70°C operating temperature.

Note:

1) Above data is approximate and subject to manufacture tolerance.

Cables can be offered with FRLS & LSF properties.

3) Cables can be offered with IEC & VDE specification.

4) Three core flat with or without Earth Conductor can be offered.





LOW VOLTAGE CABLE

Nominal Cross Section Core x mm ²	Nominal Insulation Thickness (mm)	Dia Under Armour (mm)	Armour Wire (mm)	Nominal O/D (mm)	Approx. Weight (Kg/Km)
2 x 4	0.7	10.1	0.9	14.7	409
2 x 6	0.7	11.3	0.9	15.9	485
2 x 10	0.7	13.2	0.9	18.0	635
2 x 16	0.7	14.5	1.25	20.4	900
3 x 4	0.7	10.7	0.9	15.3	470
3 x 6	0.7	12.0	0.9	16.6	570
3 x 10	0.7	14.0	1.25	19.5	880
3 x 16	0.7	15.5	1.25	21.6	1070
3 x 25	0.9	20.1	1.6	23.6	1550
3 x 35	0.9	22.8	1.6	25.7	1940
3 x 50	1.0	21.7	1.6	28.5	2360
3 x 70	1.1	25.2	1.6	32.2	3120
3 x 95	1.1	28.8	2.0	37.0	4310
3 x 120	1.2	32.0	2.0	40.4	5160
3 x 150	1.4	35.9	2.5	45.5	6610
3 x 185	1.6	40.0	2.5	49.8	7920
3 x 240	1.7	44.9	2.5	55.1	9950
3 x 300	1.8	49.8	2.5	60.2	11970
3 x 400	2.0	55.8	2.5	66.6	14770
4 x 4	0.7	11.8	0.9	16.4	560
4 x 6	0.7	13.2	1.25	18.7	790
4 x 10	0.7	15.6	1.25	21.1	1040
4 x 16	0.7	17.2	1.25	23.4	1300
4 x 25	0.9	22.3	1.6	26.1	1880
4 x 35	0.9	25.3	1.6	28.6	2350
4 x 50	1.0	25.0	1.6	32.0	2950
4 x 70	1.1	29.5	2.0	37.7	4230
4 x 95	1.1	33.3	2.0	41.7	5390
4 x 120	1.2	37.5	2.5	47.1	6890
4 x 150	1.4	41.6	2.5	51.4	8300
4 x 185	1.6	46.4	2.5	56.6	10070
4 x 240	1.7	52.6	2.5	63.0	12680
4 x 300	1.8	58.0	2.5	68.8	15380
4 x 400	2.0	65.4	3.15	78.1	19950

•	Standard : BS 5467.
•	Rated Voltage: 0.6 / 1 kv.
•	Conductor : Stranded Compact Copper Conductor.

Insulation : XLPE.Bedding : Extruded PVC.

 Armouring: Single layer of Galvanised Steel Wire.

Sheathing : Extruded PVC.

• Operating Temperature : 90°C for continuous operation 250°C for short circuit condition.

Note:

- 1) Above data is approximate and subject to manufacture tolerance.
- Cables are also available with Aluminium Conductor, PVC Insulation and LS sheath.
- Cables can be offered with FR & LSF properties.
- 4) Cables can be offered with IEC 60502-1 specification.

Nominal Cross Section Core x mm ²	Nominal Insulation Thickness (mm)	Dia Under Armour (mm)	Steel/Wire Diameter (mm)	Approx. O/D (mm)	Approx. Cable Weight (Kg/Km)
2 x 1.5	0.6	7.7	0.9	12.3	295
3 x 1.5	0.6	8.2	0.9	12.8	330
4 x 1.5	0.6	8.9	0.9	13.5	380
5 x 1.5	0.6	9.7	0.9	14.3	410
7 x 1.5	0.6	10.6	0.9	15.2	470
10 x 1.5	0.6	13.5	1.25	19.0	730
12 x 1.5	0.6	13.9	1.25	19.4	780
19 x 1.5	0.6	16.5	1.25	22.2	1020
27 x 1.5	0.6	20.1	1.6	26.7	1510
37 x 1.5	0.6	22.4	1.6	29.2	1830
48 x 1.5	0.6	25.9	1.6	32.9	2200
2 x 2.5	0.7	9.0	0.9	13.6	345
3 x 2.5	0.7	9.5	0.9	14.1	390
4 x 2.5	0.7	10.4	0.9	15.0	450
5 x 2.5	0.7	11.5	0.9	16.3	530
7 x 2.5	0.7	12.5	1.25	18.0	730
10 x 2.5	0.7	16.2	1.25	21.9	950
12 x 2.5	0.7	16.7	1.25	22.4	1050
19 x 2.5	0.7	20.0	1.6	26.6	1600
27 x 2.5	0.7	23.9	1.6	30.7	2040
37 x 2.5	0.7	27.0	1.6	34.0	2520
48 x 2.5	0.7	31.3	2.0	39.5	3340

Standard: BS 6346
Rated Voltage: 0.6 / 1 kv.
Conductor: Stranded Compact
Copper Conductor.

• Insulation : PVC.

Bedding : Extruded PVC.

• **Armouring**: Single layer of Galvanised Steel Wire.

• **Sheathing**: Extruded PVC.

 Operating Temperature: 70°C for continuous operation 160°C for short circuit condition.

- 1) Above data is approximate and subject to manufacture tolerance.
- 2) Cables are also available with XLPE Insulation.
- 3) Cables can be offered with FR & LSF properties.
- 4) Cables can be offered with IEC 60502-1 specification.



MEDIUM VOLTAGE CABLE

MEDIO	IM VOLI	AGE CA	DLL.			
Core	Nominal Cross Section (mm²)	Nominal Insulation Thickness (mm)	Steel Wire Diameter (mm)	Nominal Sheath Thickness (mm)	Approx. O/D. (mm)	Approx. Cable Weight (Kg/Km)
3.6/6	3 x 35	2.5	2.0	2.3	42.9	3400
(7.2) kv.	3 x 50	2.5	2.5	2.4	46.5	4400
(1.2) KV.	3 x 70	2.5	2.5	2.5	50.6	5400
	3 x 95	2.5	2.5	2.6	54.5	6300
	3 x 120	2.5	2.5	2.8	58.1	7200
	3 x 150	2.5	2.5	2.9	61.1	8300
	3 x 185	2.5	2.5	3.0	65.2	9600
	3 x 240	2.6	2.5	3.2	70.7	11800
	3 x 300	2.8	3.15	3.4	78.5	15000
	3 x 400	3.0	3.15	3.6	85.5	18300
	0 N 100	0.0	0.10	0.0	00.0	10000
6/10	3 x 35	3.4	2.5	2.4	48.5	4300
(12) kv.	3 x 50	3.4	2.5	2.5	51.0	5000
(12) KV.	3 x 70	3.4	2.5	2.7	55.3	5800
	3 x 95	3.4	2.5	2.8	59.2	6900
	3 x 120	3.4	2.5	2.9	62.6	8000
	3 x 150	3.4	2.5	3.0	65.6	8900
	3 x 185	3.4	2.5	3.1	69.7	10300
	3 x 240	3.4	3.15	3.3	75.0	13900
	3 x 300	3.4	3.15	3.5	81.5	15500
	0 A 000	0.1	0.10	0.0	01.0	10000
8.7/15	3 x 35	4.5	2.5	2.6	54.0	4900
(17.5) kv.	3 x 50	4.5	2.5	2.7	56.6	5500
(11.0) Kv.	3 x 70	4.5	2.5	2.8	60.7	6500
	3 x 95	4.5	2.5	2.9	64.5	7600
	3 x 120	4.5	2.5	3.1	68.2	8700
	3 x 150	4.5	2.5	3.2	71.2	9600
	3 x 185	4.5	3.15	3.3	75.2	11300
	3 x 240	4.5	3.15	3.5	81.7	14100
	3 x 300	4.5	3.15	3.6	86.8	16500
	3 x 400	4.5	3.15	3.9	93.3	19500
12/20	3 x 35	5.5	2.5	2.8	61.5	6130
(24) kv.	3 x 50	5.5	2.5	2.9	64.2	6770
, ,	3 x 70	5.5	2.5	3.0	68.2	7780
	3 x 95	5.5	2.5	3.1	72.1	8930
	3 x 120	5.5	2.5	3.2	75.8	10030
	3 x 150	5.5	3.15	3.4	80.7	12400
	3 x 185	5.5	3.15	3.5	84.5	13880
	3 x 240	5.5	3.15	3.6	90.4	16200
	3 x 300	5.5	3.15	3.8	95.2	18600
	3 x 400	5.5	3.15	4.0	102.1	21560
	0	0	0 -	0.7		0=:-
18/30	3 x 50	8.0	2.5	3.3	74	8740
(36) kv.	3 x 70	8.0	3.15	3.4	81.7	10470
	3 x 95	8.0	3.15	3.5	85.8	11770
	3 x 120	8.0	3.15	3.6	89.1	12950
	3 x 150	8.0	3.15	3.7	92.7	14480
	3 x 185	8.0	3.15	3.9	96.5	16010
	3 x 240	8.0	3.15	4.0	102.4	18500
	3 x 300	8.0	3.15	4.2	107.2	20950

- **Standard**: IEC 60502.
- **Conductor** : Circular Stranded Compact Copper conductor.
- **Conductor Screen**: Extruded Layer of Semi Conducting Material.
- Insulation : XLPE.
- Insulation Screen : Extruded Layer of stripable Semi-conducting Material.
- Metallic Screen : Copper Tape.
- **Bedding**: Extruded PVC over non-hygroscopic filler.
- Armouring: Single layer of galvanised Steel Wire.
- Sheating: Extruded PVC.
- Operating Temperature : 90°C for continuous operation 250°C for short circuit conditions.

- 1) Above data is approximate and subject to manufacture tolerance.
- Cables are also available with Aluminium conductors, Copper wire Screen and LSF Outersheath.
- 3) Single core cables are also available on request.
- 4) Cables can be offered with BS & 6622





OVERALL SCREENED ARMOURED INSTRUMENTATION CABLE

No. of Pairs /	Nominal Conductor Area (mm²)	Nominal Conductor Stranding (#/mm)	Insulation Thickness (mm)	Nominal Diameter Under Armour (mm)	Armour Wire Diameter (mm)	Nominal O/D (mm)	Approx. Cable Weight (Kg/Km)
1P	0.50	16/0.2	0.6	7.00	0.90	11.40	255.00
2P	0.50	16/0.2	0.6	7.90	0.90	12.30	305.00
5P	0.50	16/0.2	0.6	13.10	0.90	17.90	610.00
10P	0.50	16/0.2	0.6	17.20	1.25	22.90	1060.00
20P	0.50	16/0.2	0.6	22.30	1.60	29.10	1800.00
1T	0.50	16/0.2	0.6	7.30	0.90	11.70	280.00
1P	0.75	24/0.2	0.6	7.30	0.90	11.70	305.00
2P	0.75	24/0.2	0.6	8.30	0.90	12.90	360.00
5P	0.75	24/0.2	0.6	14.30	1.25	19.80	820.00
10P	0.75	24/0.2	0.6	18.70	1.60	25.30	1380.00
20P	0.75	24/0.2	0.6	24.50	1.60	31.30	2080.00
1T	0.75	24/0.2	0.6	7.70	0.90	12.10	330.00
1P	1.50	7/0.53	0.6	8.30	0.90	12.90	360.00
2P	1.50	7/0.53	0.6	9.70	0.90	14.30	460.00
5P	1.50	7/0.53	0.6	16.40	1.25	22.10	1040.00
10P	1.50	7/0.53	0.6	21.60	1.60	28.40	1610.00
20P	1.50	7/0.53	0.6	28.50	1.60	35.70	2630.00
1T	1.50	7/0.53	0.6	8.90	0.90	13.50	380.00

• Standard : BS 5308

• Conductors : Stranded (Class2) or Flexible (Class 5) Copper conductors.

• Insulation : PVC Insulation.

 Pair Identification: Pairs will be numbered, each pair containing 1 white and 1 blue core.

• Collective Screen: Aluminium Mylar tape with tinned Copper Drain Wire.

• Bedding : PVC.

• **Armouring** : Galvanised Steel

Wires.

• Outer Sheath : PVC.

Voltage Rating: 300 / 500 V.Temp. Rating: 70°C max.

conductor operating temperature.

Note: 1) Above data is approximate and subject to manufacture tolerance.

cables are also available with LDPE Insulation and LSF Outersheath.

INDIVIDUAL & OVERALL SCREENED ARMOURED INSTRUMENTATION CABLE

No. of Pairs /	Nominal Conductor Area (mm²)	Nominal Conductor Stranding (# / mm)	Insulation Thickness (mm)	Nominal Diameter Under Armour (mm)	Armour Wire Diameter (mm)	Nominal O/D (mm)	Approx. Cable Weight (Kg/Km)	
2P	0.5	16/0.20	0.6	12.0	0.9	16.8	505	
5P	0.5	16/0.20	0.6	15.2	1.25	20.9	830	
10P	0.5	16/0.20	0.6	21.1	1.6	27.9	1420	
20P	0.5	16/0.20	0.6	27.3	1.6	34.3	2040	
2P	0.75	24/0.20	0.6	12.8	0.9	17.6	545	
5P	0.75	24/0.20	0.6	16.3	1.25	22.0	1005	
10P	0.75	24/0.20	0.6	22.7	1.6	29.5	1760	
20P	0.75	24/0.20	0.6	29.8	2	37.8	2640	
2P	1.5	7/0.53	0.6	14.7	1.25	20.4	800	
5P	1.5	7/0.53	0.6	18.8	1.6	25.4	1290	
10P	1.5	7/0.53	0.6	26.5	1.6	33.5	1990	
20P	1.5	7/0.53	0.6	34.4	2	42.6	3310	l

Note: 1) Above data is approximate and subject to manufacture tolerance.

2) Cables are also available with LDPE Insulation and LSF Outersheath.

• Standard : BS 5308

• Conductors : Stranded (Class2) or Flexible (Class 5) Copper conductors.

• Insulation : PVC Insulation.

• Pair Identification: Pairs will be numbered, each pair containing 1 white and 1 blue core.

• Individual Screen : Aluminium Mylar Tape with Tinned Copper Drain Wire.

 Pair Identification: Numbered tape applied over each individually screened pair.

 Collective Screen: Aluminium Mylar tape with tinned Copper Drain Wire.

• Bedding: PVC.

Armouring : Galvanised Steel Wires

Outer Sheath : PVC.

Voltage Rating: 300 / 500 V.
Temp. Rating: 70°C max.

conductor operating temperature.



FOAM SKIN UNARMOURED & ARMOURED TELEPHONE CABLES

No. of Pairs /	Solid Conductor Dia (Nominal)	Insulation Thickness Nominal (mm)	Diameter Over Inner Sheath (Nominal)	G. S. Tape Armour Size & Thickness (Nominal)	Outer Dia Nominal (mm)	Approx. Cable Weight (Kg/Km)
10	0.4	0.16	9.3	25 x 0.4	14.1	292
20	0.4	0.16	11.2	25 x 0.4	16.0	377
30	0.4	0.16	12.7	25 x 0.4	17.5	450
50	0.4	0.16	15.0	25 x 0.4	20.0	580
100	0.4	0.16	19.3	30 x 0.4	24.1	867
200	0.4	0.16	25.8	30 x 0.4	31.0	1416
300	0.4	0.16	30.4	30 x 0.4	35.6	1893
400	0.4	0.16	34.7	40 x 0.4	40.3	2400
600	0.4	0.16	41.5	40 x 0.4	47.0	3315
800	0.4	0.16	47.5	40 x 0.4	53.5	4248
900	0.4	0.16	50.0	40 x 0.4	56.0	4677
1000	0.4	0.16	52.5	40 x 0.4	58.4	5101
1200	0.4	0.16	57.2	40 x 0.4	63.6	6019
1600	0.4	0.16	65.5	40 x 0.4	72.3	7767
1800	0.4	0.16	69.0	40 x 0.4	75.9	8589

Standard: IEC 708 - 1 & 2
Conductors: Solid round wire of annealed copper.
Insulation: Foam - Skin.
Pair Identification: As per IEC.
Filling Compound: Jelly.
Core Wrap: Polyester Film.
Inner Sheath: Polythelene.
Armouring Tape: G. S. Tape.

• Outer Sheathing : Polythelene.

FOAM SKIN UNARMOURED & ARMOURED TELEPHONE CABLES

No. of Pairs /	Solid Conductor Dia (Nominal)	Insulation Thickness Nominal (mm)	Diameter Over Inner Sheath (Nominal)	G. S. Tape Armour Size & Thickness (Nominal)	Outer Dia Nominal (mm)	Approx. Cable Weight (Kg/Km)
10	0.5	0.2	10.25	25 x 0.4	15.00	334
20	0.5	0.2	12.50	25 x 0.4	17.50	447
30	0.5	0.2	14.30	25 x 0.4	19.20	547
50	0.5	0.2	17.10	30 x 0.4	22.00	727
100	0.5	0.2	22.25	30 x 0.4	27.00	1129
200	0.5	0.2	30.00	30 x 0.4	35.20	1900
300	0.5	0.2	36.00	40 x 0.4	41.50	2640
400	0.5	0.2	40.50	40 x 0.4	46.20	3310
600	0.5	0.2	49.00	40 x 0.4	55.00	4714
800	0.5	0.2	56.20	40 x 0.4	62.50	6072
900	0.5	0.2	59.20	40 x 0.4	65.60	6707
1000	0.5	0.2	62.00	40 x 0.4	68.50	7337
1200	0.5	0.2	67.80	40 x 0.4	74.50	8675
1600	0.5	0.2	77.25	40 x 0.4	84.00	11144
1800	0.5	0.2	81.80	40 x 0.4	88.80	12419

Standard: IEC 708 - 1 & 2.
Conductors: Solid round wire of annealed copper.
Insulation: Foam - Skin.
Pair Identification: As per IEC.
Filling Compound: Jelly.
Core Wrap: Polyester Film.
Inner Sheath: Polythelene.
Armouring Tape: G. S. Tape.
Outer Sheathing: Polythelene.



XLPE INSULATED LEAD SHEATHED POWER AND CONTROL CABLES TO BS 5467 & 600/1000V EEMUA 133

	Approximate Diameter Approximate							
	Nominal area							
	of	Over Lead	Armour	Overall	Cable Weight	Cable Weight		
	conductor	Over Leau	Cable	Cable	Copper	Aluminium		
					• •			
	mm ²	mm	mm	mm	kg/km	kg/km		
s	50*	13.0	1.6	20.8	1300	1005		
I	70* 95*	15.0 16.8	1.6 1.6	22.6 24.5	1620 2040	1190 1451		
N	120*	18.5	1.6	26.2	2380	1621		
G	150	20.5	1.6	28.5	2840	1928		
L	185	22.8	1.6	30.8	3365	2222		
Е	240	25.5	1.6	33.5	4180	2676		
	300	28.1	1.6	36.4	5060	3174		
C	400	32.3	2.0	41.8	6400	4003		
0	500	37.0	2.0	46.6	8000	4942		
R	630 800	40.8 47.5	2.0	50.8 59.2	9720 12700	5734 7561		
E	1000	52.5	2.5	64.2	15400	9034		
	1.5	8.6	0.9	14.0	640	-		
T	2.5	9.5	0.9	15.0	730			
W	4	10.8	0.9	16.5	840	_		
0	6	11.6	0.9	17.5	960	_		
	10	13.7	0.9	19.8	1180	_		
С	16	15.5	1.25	21.8	1540	_		
0	25	18.9	1.25	25.5	2060	1745		
	35	21.3	1.6	30.0	2670	2230		
R	50+ 70	19.0 22.2	1.6 1.6	27.2 30.5	2640 3400	2062 2570		
E	95	24.8	2.0	34.5	4530	3380		
	1.5	9.2	0.9	14.5	700	-		
Т	2.5	10.4	0.9	16.0	815	_		
Н	4	11.4	0.9	17.0	920	_		
	6	13.0	0.9	18.5	1080	_		
R	10	14.8	1.25	21.5	1500	_		
E	16	16.5	1.25	23.0	1750	- 04.00		
Е	25 35	20.5 23.0	1.6	28.6 31.2	2650 3220	2180 2560		
12	50+	24.0	1.6	32.0	3630	2764		
	70	26.5	1.6	35.0	4560	3315		
C	95	30.5	2.0	40.5	6110	4385		
0	120	33.5	2.0	43.5	7300	5129		
R	150	37.8	2.5	49.4	8980	6325		
	185	42.8	2.5	54.5	10870	7530		
E	240	48.2	2.5	60.2	13500	9110		
	300	52.2	2.5	65.2	16150	10630		
Б	1.5 2.5	10.1 11.1	0.9	15.6 16.8	765 870	_		
F	4	12.8	0.9	18.5	1030	_		
0	6	13.8	1.25	20.3	1330	_		
U	10	16.5	1.25	22.8	1670	_		
	16	18.8	1.25	25.5	2120	_		
R	25+	20.5	1.6	28.5	2800	2160		
	35	23.2	1.6	31.3	3430	2550		
C	50	26.2	1.6	34.6	4200	3050		
0	70	30.5 34.8	2.0	40.5	5850 7240	4150		
9	ΟE		2.0	44.8	7340	4975		
ъ.	95 120			40 Ω	9400	6432		
R	120	37.8	2.5	49.8 55.0	9400 11280	6432 7630		
R E				49.8 55.0 60.0	9400 11280 13600	6432 7630 9020		

- 1) Cable with 1.6mm wire armour, a deviation from BS 5467.
- 2) Tolerance on the above dimensions are -0.3mm and +0.5 mm.
- 3) Cable sizes marked + and higher have sector shaped conductors.

LEAD SHEATHED XLPE INSULATED CABLES TO BS 5467 AND EEMUA 133 600/1000V

	A	A							
No.	Over		0 11 0 . 1 . 1	Approx.					
of Cores	Lead	Armour Wire	Overall Cable	weight					
	mm	mm	mm	kg/km					
	Nominal area of conductor 1.5 mm ²								
5	10	0.9	16.2	780					
7	11.12	0.9	17.5	875					
10	13.6	1.25	20.7	1230					
12	14.2	1.25	21.3	1265					
19	16.6	1.25	23.9	1620					
24	19.4	1.6	28.0	2122					
27	20.1	1.6	28.7	2553					
32	21.5	1.6	30.1	2567					
37	22.6	1.6	31.2	2732					
48	26.3	1.6	35.1	3355					
	Nominal	area of conductor	2.5 mm ²						
5	11.6	0.9	17.8	953					
7	12.6	0.9	18.8	1080					
10	16.0	1.25	23.4	1460					
12	16.8	1.25	24.0	1600					
19	20.0	1.6	28.5	2318					
24	23.4	1.6	31.8	2810					
27	24.2	1.6	32.4	3064					
32	26.0	1.6	35.0	3400					
37	27.2	1.6	36.0	3656					
48	31.7	2.0	42.1	4908					
Nominal area of conductor 4.0.mm ²									
5	12.9	0.9	19.3	1140					
7	14.1	1.25	21.2	1370					
10	18.3	1.6	26.7	2070					
12	18.9	1.6	27.3	2205					
19	22.5	1.6	31.1	2990					
24	26.6	1.6	34.6	3590					
27	27.3	1.6	36.3	3775					
37	30.8	2.0	41.2	4990					
48	35.8	2.0	46.4	6125					

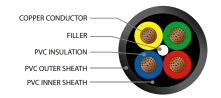
COPPER CONDUCTOR XLPE INSULATED LEAD SHEATHED 3 CORE CABLES TO BS 5467 & 1900/3300V EEMUA 133

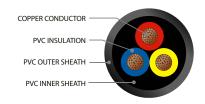
	A				
Nominal Area of Conductor mm ²	Over Lead	Armour Wire	Overall Cable	Approx. weight	
	mm	mm	mm	kg/km	
16	22.5	1.6	31.0	2640	
25	25.0	1.6	33.5	3230	
35	27.5	1.6	36.0	3775	
50+	26.0	2.0	36.0	4360	
70	31.0	2.0	41.0	5500	
95	35.2	2.0	45.5	6900	
120	37.0	2.5	49.0	8450	
150	41.2	2.5	53.2	9800	
185	44.0	2.5	56.0	11350	
240	49.4	2.5	62.2	14000	
300	53.0	2.5	66.0	16350	

 $\it Note:$ 1) Cable marked + and higher have sector shaped conductors.

2) Tolerance on the above dimensions are -0.3mm and +0.5mm.







3 CORE AND 4 CORE ROUND SUBMERSIBLE CABLES

	Naminal		3 Core Round		4 Core Round		Max.	Current c
Nominal area of the conductor (mm²)	he Wire Insulat	Nominal Insulation Thickness (mm)	Insulation Nominal Sheath		Nominal Sheath Thickness (mm)	Approx. Overall Dimensions (mm)	Conductor Resistance at 20° C (Ohm/Km)	arrying capacity at 40° C (Amps.)
1.50	22/0.30	0.80	1.50	10.00	1.50	10.80	12.10	14.00
2.50	36/0.30	0.90	1.50	11.00	1.65	12.50	7.41	18.00
4.00	56/0.30	1.00	1.60	13.00	1.65	14.10	4.95	26.00
6.00	85/0.30	1.00	1.60	14.60	1.65	16.00	3.30	31.00
10.00	140/0.30	1.00	2.00	18.00	2.00	20.35	1.91	42.00
16.00	226/0.30	1.00	2.00	21.20	2.00	23.40	1.21	57.00
25.00	354/0.30	1.20	2.15	26.00	2.20	28.80	0.780	72.00
35.00	495/0.30	1.20	2.15	28.30	2.20	31.50	0.554	90.00
50.00	703/0.30	1.40	2.25	33.50	2.30	37.30	0.386	115.00
70.00	440/0.45	1.40	2.45	37.80	2.60	42.20	0.272	143.00
95.00	475/0.50	1.60	2.40	43.50	2.65	48.80	0.206	165.00

 Conductor: High purity electrolytic grade bright annealed flexible bunched bare copper conductor according to international standards like IEC- 228

• Insulation: PVC Type 'A' insulation

Inner Sheath: PVCOuter Sheath: PVC

- 1) The number of wires is approximate and wire diameter is nominal; they shall be such as to satisfy the requirements of conductor resistance as per Class 5 of IEC 60228 / DIN VDE 0295 / IS 8130 / BS 6360.
- 2) In view of continuous improvements in our design and process, specifications given here in are subject change without notice
- 3) IF REQUIRED WE CAN ALSO SUPPLY 3 CORE & 4 CORE SUBMERSIBLE CABLES WITH FLAT FORMATION.

RECENT MAJOR PROJECTS - Setting Benchmarks

POWER

- 1 ELECTRICITY COMPANY OF GHANA MANUFACTURED, TESTED & SUPPLIED 150 KMS OF M.V AND L.V. CABLES FOR VARIOUS ELECTRIFICATION PROJECTS IN GHANA. FURTHER EXECUTING ANOTHER 180 KMS THROUGH EPC CONTRACTORS
- 2 4 X 250 MW MEGA THERMAL POWER PLANT AT RAIGARH, A PRESTIGIOUS GREEN FIELD POWER PLANT BUILT BY JINDAL POWER LTD. FOR O.P. JINDAL SUPER THERMAL POWER PLANT AT TAMNAR, CHATTISGARH. MANUFACTURED, TESTED, & SUPPLIED 1946 KMS OF HT LT POWER AND CONTROL CABLE.
- 3 4 X 300 MW MEGA THERMAL POWER PLANT AT CHATTISGARH, A PRESTIGIOUS GREEN FIELD POWER PLANT BUILT BY LANCO INFRATECH LTD. FOR AMARKANTAK THERMAL POWER PLANT AT KORBA

MANUFACTURED, TESTED, & SUPPLIED 428 KMS OF HT, LT POWER AND CONTROL CABLE.

- 4 2 X 300 MW THERMAL POWER PLANT AT YAMUNANAGAR. A PRESTIGIOUS GREEN FIELD POWER PLANT BUILT BY RELIANCE ENERGY FOR HARYANA POWER GENERATION CORPN.

 MANUFACTURED, TESTED, & SUPPLIED 1448 KMS OF HT, LT & INSTRUMENTATION CABLE.
- 5 4 X 330 MW THERMAL POWER PLANT AT KUTCH, GUJARAT, A PRESTIGIOUS GREEN FIELD POWER PLANT BUILT BY ADANI POWER LTD. FOR MUNDRA THERMAL POWER PROJECT EXECUTING 300 KM. OF HT LT POWER AND CONTROL CABLE ORDER.
- 6 2 X 250 MW THERMAL POWER PLANT AT MEJIA, A PRESTIGIOUS GREEN FIELD POWER PLANT BUILT BY BHARAT HEAVY ELECTRICALS FOR DVC-MEJIA THERMAL POWER PROJECT

 MANUFACTURED, TESTED, & SUPPLIED 1261 KMS OF HT, LT POWER & CONTROL CABLE.
- 7 2 X 125 MW CPP PLANT AT DUBURI, ORISSA A PRESTIGIOUS GREEN FIELD POWER PLANT BUILT BY JINDAL STAINLESS LTD.

MANUFACTURED, TESTED, & SUPPLIED 855 KMS OF HT, LT POWER & CONTROL CABLE.

- 8 NUCLEAR POWER CORPORATION. TARAPUR A PRESTIGIOUS BROWNFIELD PROJECT OF UNIT III & IV MANUFACTURED, SHOP TESTING, INSPECTION & SUPPLIED 475 KMS OF LT POWER & CONTROL CABLE THROUGH EPC CONTRACTOR M/S LARSEN & TOUBRO LTD.
- 9 NUCLEAR POWER CORPORATION- KAIGA A PRESTIGIOUS BROWNFIELD PROJECT OF UNIT 5 & 6 MANUFACTURED, SHOP TESTING, INSPECTION & SUPPLIED 950 KMS OF LT POWER, CONTROL CABLES & RADIATION CABLE, THROUGH EPC CONTRACTOR M/S RELIANCE ENERGY LTD.
- 10 NUCLEAR POWER CORPORATION- RAPP A PRESTIGIOUS BROWNFIELD PROJECT OF UNIT 5 & 6 MANUFACTURED, SHOP TESTING, INSPECTION & SUPPLIED 922 KMS OF LT POWER, CONTROL CABLES & RADIATION CABLE, THROUGH EPC CONTRACTOR M/S RELIANCE ENERGY LTD.
- 11 NATIONAL THERMAL POWER CORPORATION LTD (NTPC) 3 X 660MW GREENFIELD THERMAL POWER PROJECT BARH MANUFACTURED, SHOP TESTED, INSPECTION & SUPPLIED 1175 KMS OF HT CABLES & LT CABLES FOR THE ABOVE PROJECT.

CEMENT

- 1 PRESTIGIOUS BROWN FIELD PROJECT OF ZAMBEZI PORTLAND CEMENT CO. ZAMBIA MANUFACTURED, TESTED & SUPPLIED 250 KMS OF L.V, INSTRUMENTATION AND MV CABLES.
- 2 PRESTIGIOUS BROWN FIELD PROJECT OF BINANI CEMENT FACTORY L.L.C DUBAI, UAE MANUFACTURED TESTED & SUPPLIED 80 KMS OF L.V., M.V.
- 3 A PRESTIGIOUS GREEN FIELD PROJECT BUILT BY GRASIM CEMENT FOR KOTPUTLI, GINIGERA, RAIPUR PROJECTS EXECUTING 2063 KM. OF LT POWER AND CONTROL & INSTRUMENTATION CABLE ORDERS.
- 4 A PRESTIGIOUS BROWN FIELD CEMENT PLANT BUILT BY CHETTINAD CEMENT EXECUTING 968 KM. OF HT, LT POWER AND CONTROL & INSTRUMENTATION CABLE ORDERS.

PETROLEUM

- 1 PRESTIGIOUS BROWN FIELD PROJECT AT ABU DHABI FOR BOROUGE RUWAIS 2 PROJECT. MANUFACTURED, TESTED & SUPPLIED 1200 KMS OF L V, M.V., INSTRUMENTATION AND FLEXIBLE CABLES. THROUGH EPC CONTRACTOR LINDE ENGINEERING GERMANY.
- 2 PRESTIGIOUS BROWN FIELD PROJECT BEING BUILT FOR PETROLEUM DEPARTMENT OF OMAN.

 MANUFACTURED, TESTED & SUPPLIED 60 KMS OF M V CABLES. FOR QARN ALAM PROJECT THROUGH DODSAL ENGINEERING, OMAN
- 3 A PRESTIGIOUS BROWN FIELD PROJECT BUILT FOR IOCL NAPHTHA CRACKER PROJECT EXECUTING 511 KM. OF HT, LT POWER AND CONTROL & INSTRUMENTATION CABLE ORDERS FOR THIS PROJECT THROUGH EPC CONTRACTORS LIKE L & T, TECHNIMONT, TOYO ENGG., IOTL.
- 4 A PRESTIGIOUS GREEN FIELD REFINERY PROJECT BUILT FOR BHARAT OMAN REFINERY LTD. THROUGH EIL. EXECUTING 1163 KMS. OF HT, LT POWER AND CONTROL & INSTRUMENTATION CABLE ORDERS.
- 5 A PRESTIGIOUS BROWN FIELD PROJECT BUILT FOR HINDUSTAN PETROLEUM CORPORATION LIMITED MUMBAI FOR THEIR GREEN FUEL & EMISSION CONTROL PROJECT EXECUTED 1820 KM. OF HT, LT POWER AND CONTROL & INSTRUMENTATION CABLE ORDERS.

STEEL

- 1 PRESTIGIOUS BROWN FIELD PROJECT OF AL GHURAIR IRON & STEEL LLC, ABU DHABI, U.A.E MANUFACTURED, TESTED & SUPPLIED 350 KMS OF M.V & L V CABLES.
- 2 A PRESTIGIOUS GREEN FIELD PROJECT BUILT BY JSW STEEL FOR SINTER PROJECT EXECUTING 1660 KM. OF LT POWER AND CONTROL & INSTRUMENTATION CABLE ORDERS.
- 3 A PRESTIGIOUS GREEN FIELD PROJECT BUILT BY JINDAL STAINLESS LTD. FOR DUBURI PROJECTS EXECUTING 960 KM. OF HT, LT POWER AND CONTROL CABLE ORDERS.



EHV CABLES

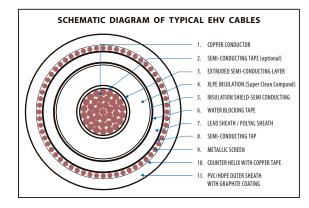
EHV cables can be used in a lot of industries like utilities, builders, government organizations, mining industries, state electricity boards, under ground railways and so on. Analysts say EHV under ground power transmission is the only solution for meeting today's growing power demand. This EHV cables will replace high voltage tower cables, which pose a risk of irreparable failure at any time and therefore will be in huge demand over the next decade.

The EHV cables can more or less survive all natural calamities and the installation can even withstand floods and earthquakes. This is huge contrast to the areas with overhead network, which are susceptible to strong flood and earthquake and have a possibility of pulling down the towers, which can be quite dangerous. EHV cables also have the following advantages as compared to others.

- More secured supply even during bad weather conditions
- Loss of transmission is lower
- Does not cause noise or air pollution
- Is underground and therefore saves space and is much better for urban transmission of electricity

Salient features of Polycab's EHV / XLPE line

- The only manufacturer in the country to have 2 Dry cure / Dry cooled lines sourced from SCHOLZ Germany.
- Highly sophisticated extruders for conductor shield, insulation and insulation shield, employing a three layer single head triple extrusion method to eliminate contaminants in the insulating layers. These are sourced from ROYLE USA.
- Microprocessor based equipments control all the parameters required for the process within the specified limits.



- Separate pressurised rooms for semicon shield & XLPE insulation to avoid contamination and material handling by vacuum loaders.
- Air systems with air showers on doors to eliminate dust entry.

Metallic Sheath

Metallic Sheath is must for cables above 33 kV as the cable of voltage grade 66~kV & above are working with dielectric stress of above 6~kV / mm & at this level of dielectric stress presence of water triggers tree formation in the insulation resulting in cable failure.

Water can enter the cable longitudinally as well as radially. Longitudinal water entry can be blocked by using water swellable tape on the core. Lead sheath can block the entry in radial direction.

Lead sheath is extruded by continuous lead extruder which is equipped with micro-processor based temperature controllers & drives to achieve uniform thickness, better concentricity. Lead sheath in addition to other electrical & manufacturing advantages has a life span of minimum 40 to 45 years.

Cable selection / Design parameters

Cable design mainly depends on

- System voltage
- Impulse level
- Fault level & duration
- Ground & air temperature
- Thermal resistivity of soil

Breakthrough in EHV cables

Polycab has produced a sample length of 66kv cable for qualifying the electrical and other tests that are carried out at CPRI Bangalore. We tasted our success as the sample length passed all routine and type tests at CPRI. This gave us tremendous confidence and brightened our prospects to enable us to bag the first commercial order for 66kv cable from India's leading and largest power transmission company PGCIL — Bangalore. Inview of above we have now produced a sample length for 132kv cable for carrying out the tests at CPRI Bangalore. We look forward to continuously improve and upgrade our manufacturing process so that our journey to the next higher voltage grade of cables is easier, smooth and faster.





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