



# POLYCAB

**CABLES & WIRES**



# RUBBER CABLES



Power Electrical  
Appliances  
and Building



Installation  
with Moving  
Equipment  
At Work Site



Handling  
equipment and  
Mobile Power  
Supplies



Oil resistant  
applications



Use in  
cold environment



Use in  
submersible pumps



## Company Profile

Polycab an ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007 company is India's no. 1 Cables & Wires Company with a glorious track record of over four decades. Our manufacturing facilities at Halol (Vadodara), Daman, Nashik & Roorkee in India, addresses to the specific needs with state-of-the-art machinery and technology.

Polycab's turnover has crossed ₹ 6000 crores (US\$ 800 million) in the fiscal year 2016-17

Polycab derives its strength from its customers and those being in sectors like Utilities, Power Generation, Transmission & Distribution, Petroleum & Oil Refineries, OEMs, EPC contractors, Steel & Metal, Cement, Chemical, Atomic Energy, Nuclear Plants, as well as Government partners like BSNL, Railways and Private Telecom Operators like Reliance, Vodafone, Airtel, Aircel, Tata, Idea and many more.

Polycab offers a variety of services:

- Commercially reasonable prices
- Reliable & consistent quality
- Product development as per market
- A target stocking policy
- Technical support for application

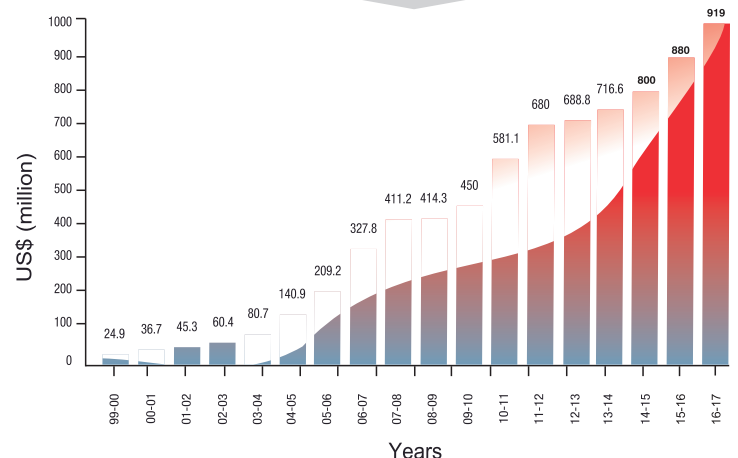
## THINGS YOU DIDN'T KNOW ABOUT POLYCAB

Between its facilities in Daman, Halol (Vadodara), Nashik and Roorkee the company has 3.5 million square feet of manufacturing space.

Polycab manufactures enough cables each year to circumnavigate the earth three and a half times and enough wire to go to the moon and come back- four times.

Polycab has increased its turnover 100 times in sixteen years.

Over 300 Authorised distributors service its India needs and its overseas interests.



## ***Chairman's Message***

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Dear Customers,

The unconditional support of all our customers and sales partners has made our journey fruitful and fulfilling. During these five decades, We have left no stone unturned to make this journey an exciting and memorable one, I take this opportunity to thank you and convey my gratitude for the unabated support and trust you have always reposed in Polycab and encouraged us to move ahead confidently.

The advent of the second millennium has brought in its wake a transformation in the mindset of the customer. The expectation of customers has risen exponentially. That's why, we have geared up towards keeping our customers totally satisfied.

Our flexibility and openness to new market trends and changing technology continue to be our driving force. The core values of teamwork, trust amongst people and customer focus have given us a unique position in the Indian industry.

As we prepare for the future, we have established our market presence with a strong product portfolio. We have also streamlined our manufacturing capabilities to withstand the winds of change. However, we are aware that we will need to be even more proactive, agile and customer centric.

This is possible only if we anticipate the future and be ready with solutions, even before you as the customer ask for them.

Our business model is evolving. We have identified focus areas of growth over the next five years and beyond. That's how, we have diversified into adjacent product categories such as Lighting & Luminaires, Switches & Switchgear, Electric Fans and Appliances.

I am confident that this will keep us ahead and winning in our endeavour to be the preferred brand in this market.

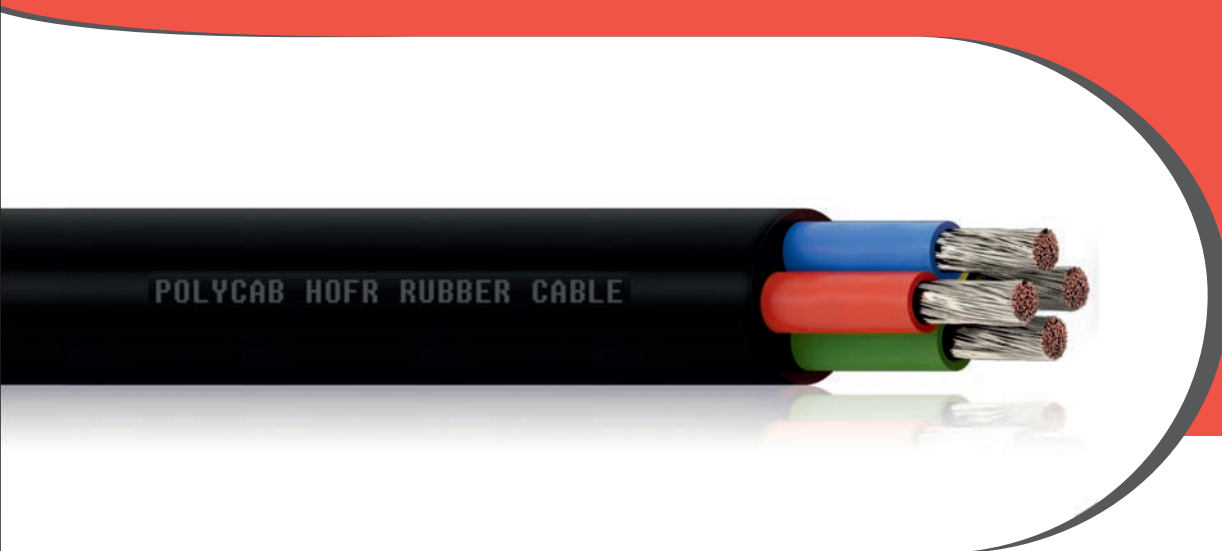
We pledge to improve each day to serve you better.

**INDER T. JAISINGHANI**  
Chairman and Managing Director

<b>Particulars</b>	<b>Page No.</b>
<b>1. RUBBER POWER CABLE</b> .....	<b>03</b>
<b>2. RUBBER CONTROL CABLE</b> .....	<b>04</b>
<b>3. RUBBER POWER &amp; CONTROL CABLE WITH REINFORCEMENT</b> .....	<b>05</b>
<b>4. RUBBER FIRE SURVIVAL CABLE</b> .....	<b>06</b>
<b>5. WELDING CABLE</b> .....	<b>07</b>
<b>6. SILICON CABLE</b> .....	<b>08</b>
<b>7. RUBBER CABLES FOR EXPORT</b> .....	<b>09</b>



# RUBBER CABLE AS PER IS 9968 PART-1 POWER CABLE



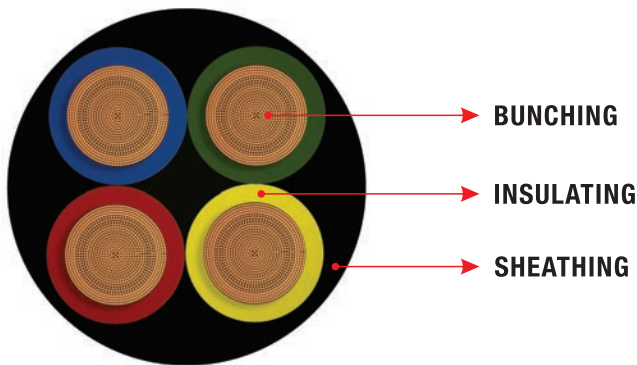
## CONSTRUCTION

**Conductor** : Class 5 annealed tin electrolytic grade copper conductor as per IS 8130

**Insulation** : Special EPR compound equivalent to or better than IE2 as per IS 6380

**Outer sheath** : Special elastomeric compound based on PCP, CSP, NBR - PVC, CPE equivalent to or better than SE4, HOFR as per IS 6380.

## CONSTRUCTION DIAGRAM



## TECHNICAL SPECIFICATION

Rated Voltage : 1.1 KV

AC Test Voltage : 3.0 KV

## WORKING TEMPERATURE

Fixed Installation : - 40 Deg C to + 90 Deg C

In Operation : - 25 Deg C to + 90 Deg C

## SPECIAL FEATURES

Excellent flexibility, Smooth finish, Enhanced resistance to Ozone, Oxygen, Heat, Solvent, Chemicals and Fire.

## RUBBER CABLE AS PER IS 9968 PART 1 POWER CABLE

Nominal Cross Section Sq.mm	Nominal Thickness of Insulation mm	Max Cond. DC Resistance @ 20 Deg C Ohms/Km	Max Temp. of the Cond. During Operation Deg C	Max Temp. of Cond. During Shot Circuit Deg C	Overall Diameter			
					1 Core	2 Core	3 Core	4 Core
4	1.0	5.09	90	250	7.8	13.2	13.5	15.4
6	1.0	3.39	90	250	10.0	17.0	18.0	20.4
10	1.2	1.95	90	250	11.8	20.6	22.0	24.2
16	1.2	1.24	90	250	13.6	24.0	25.8	28.4
25	1.4	0.795	90	250	15.7	29.2	31.4	34.2
35	1.4	0.565	90	250	17.4	32.2	34.4	37.6
50	1.6	0.393	90	250	20.2	37.2	39.8	43.6
70	1.6	0.277	90	250	22.5	41.2	44.2	48.6
95	1.8	0.21	90	250	25.4	46.6	50.2	55.2
120	1.8	0.164	90	250	27.6	50.6	54.2	60.0
150	2.0	0.132	90	250	30.4	55.6	59.6	66.0
185	2.2	0.108	90	250	33.4	60.6	65.2	72.5
240	2.4	0.0817	90	250	36.8	67.6	72.8	81.0
300	2.6	0.0654	90	250	40.0	74.6	80.4	89.4
400	2.8	0.0495	90	250	45.0	84.0	90.6	100.8

# RUBBER CABLE GENERALLY AS PER IS 9968 PART - 1 CONTROL CABLE



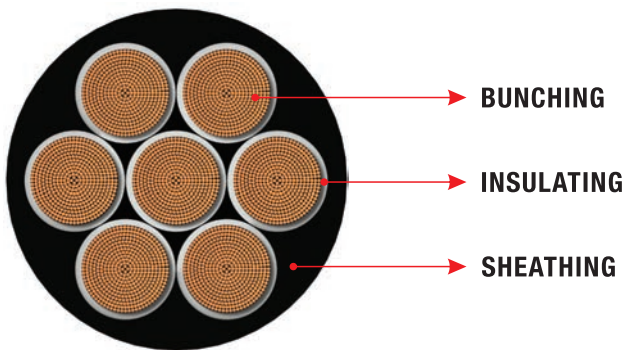
## CONSTRUCTION

**Conductor :** Class 5 annealed tin electrolytic grade copper conductor as per IS 8130.

**Insulation :** Special EPR compound equivalent to or better than IE2 as per IS 6380.

**Outer sheath :** Special elastomeric compound based on PCP, CSP, NBR-PVC, CPE equivalent to or better than SE4, HOFR as per IS 6380

## CONSTRUCTION DIAGRAM



## TECHNICAL SPECIFICATION

Rated Voltage : 1.1 KV

AC Test Voltage : 3.0 KV

## WORKING TEMPERATURE

Fixed Installation : - 40 Deg C to + 90 Deg C

In Operation : - 25 Deg C to + 90 Deg C

## SPECIAL FEATURES

Excellent flexibility, Smooth finish, Enhanced resistance to Ozone, Oxygen, Heat, Solvent, Chemicals and Fire.

## RUBBER CABLE AS PER IS 9968 PART 1 CONTROL CABLE

Nominal Cross Section Sq.mm	CORE Nos	Nominal Thickness of Insulation mm	Max Cond. DC Resistance @ 20 Deg C Ohms/Km	Max Temp. of the Cond. During Operation Deg C	Max Temp. of Cond. During Shot Circuit Deg C	Overall Diameter mm
1.5	7	1.0	13.7	90	250	14.6
1.5	12	1.0	13.7	90	250	21.0
1.5	24	1.0	13.7	90	250	29.0
2.5	7	1.0	8.21	90	250	16.0
2.5	12	1.0	8.21	90	250	23.0
2.5	24	1.0	5.09	90	250	31.5

**PRODUCT RANGE : 2 core upto 36**

# RUBBER CABLE GENERALLY AS PER IS 9968 PART - 1 WITH REINFORCEMENT



## CONSTRUCTION

**Conductor :** Class 5 annealed tin electrolytic grade copper conductor as per IS 8130.

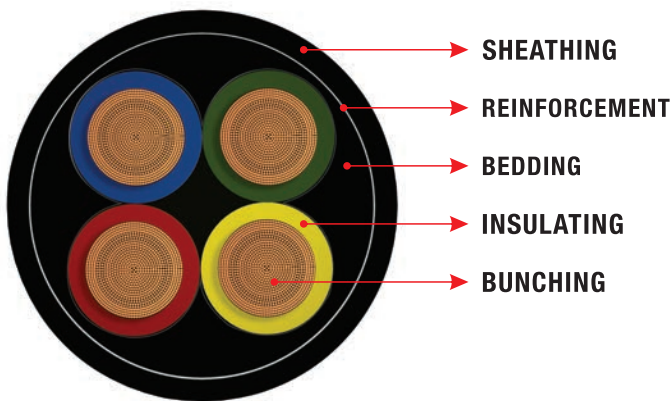
**Insulation :** Special EPR compound equivalent to or better than IE2 as per IS 6380.

**Bedding :** Special elastomeric compound conforming to SE3 / SE4 as per IS 6380.

**Reinforcement :** Anti-torsional reinforcement between bedding and outer sheath.

**Outer sheath :** Special elastomeric compound based on PCP, CSP, NBR-PVC, CPE equivalent to or better than SE4, HOFR as per IS 6380.

## CONSTRUCTION DIAGRAM



## TECHNICAL SPECIFICATION

Rated Voltage : 1.1 KV

AC Test Voltage : 3.0 KV

## SPECIAL FEATURES

Excellent flexibility, Smooth finish, Enhanced resistance to Ozone, Oxygen, Heat, Solvent, Chemicals and Fire.

## APPLICATION

Reeling & Unreeling application in dry, damp & wet locations as well as outdoors. As universal reeling cables for hoisting, transportation & handling equipment with heavy mechanical stresses, flexible wind energy cable.

**PRODUCT RANGE :** Single core upto 400 Sq.mm, Multicore upto 240 Sq.mm, Control core 1.5 Sq.mm to 2.5 Sq.mm upto 36 core

# RUBBER CABLE GENERALLY AS PER IS 9968 PART - 1 FIRE SURVIVAL CABLE



## CONSTRUCTION

**Conductor** : Class 1 or 2 annealed tin or plain electrolytic grade copper conductor as per IS 8130.

**Glass mica tape** : Special glass mica tape suitable for 750°C or 950°C.

**Insulation** : Special EPR compound equivalent to or better than IE2 as per IS 6380

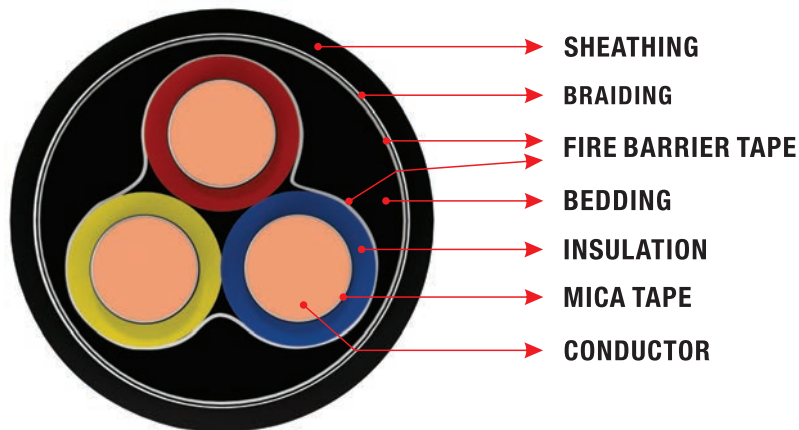
**Bedding** : Special Zero halogen elastomeric compound.

**Fire barrier tape** : High temperature resistance glass fibre tape

**Braiding** : Magnetic or non-magnetic metallic wire braiding.

**Outer sheath** : Special zero-halogen LSF (Low smoke & fume) elastomeric compound.

## CONSTRUCTION DIAGRAM



## TECHNICAL SPECIFICATION

Rated Voltage : 1.1 KV

AC Test Voltage : 3.0 KV

## SPECIAL FEATURES

- Circuit integrity test at 750°C or 950°C confirming to IEC 60331
- Smoke density test conforming to ASTM D 2843 or IEC 61034
- Vertical flame spread test confirming to IEC 60332
- Halogen acid gas test conforming to IEC-60754-1

**PRODUCT RANGE:** Single core cable upto 630 Sq.mm, Multicore cable 2.5 Sq.mm to 240 Sq.mm.



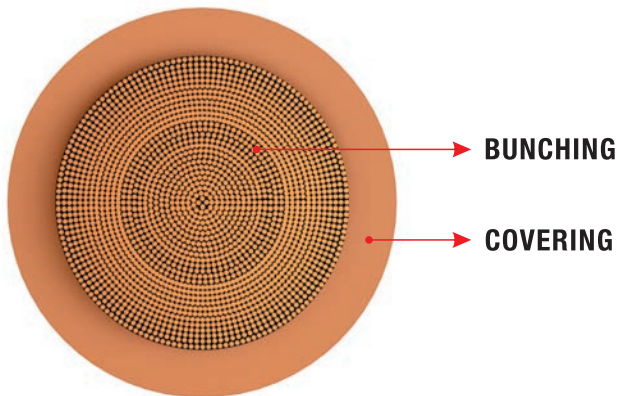


## CONSTRUCTION

**Conductor :** Ultra flexible class 6 annealed plain electrolytic grade copper conductor as per IS 8130.

**Covering :** Special elastomeric compound equivalent to or better than SE3 as per IS 6380.

## CONSTRUCTION DIAGRAM



## SPECIAL FEATURES

Heat resisting, Oil resisting, Flame retardant (HOFR).

Extremely flexible, smooth finish produced by Continuous Vulcanisation (CV) process.

## APPLICATION

Specifically designed for machine welding and hand welding to work in dry, damp, wet locations & outdoors.

## WELDING CABLE AS PER IS 9857

Sr No.	Conductor Size Sq.mm	Thickness of Covering (Nominal mm)	Outer Diameter (mm)	Weight (Kg/Km)
1	16	2.0	9.4	200
2	25	2.0	10.8	280
3	35	2.0	11.9	375
4	50	2.2	13.8	525
5	70	2.4	15.7	725
6	95	2.6	17.7	925

Upon request we can manufacture higher sizes of welding cables



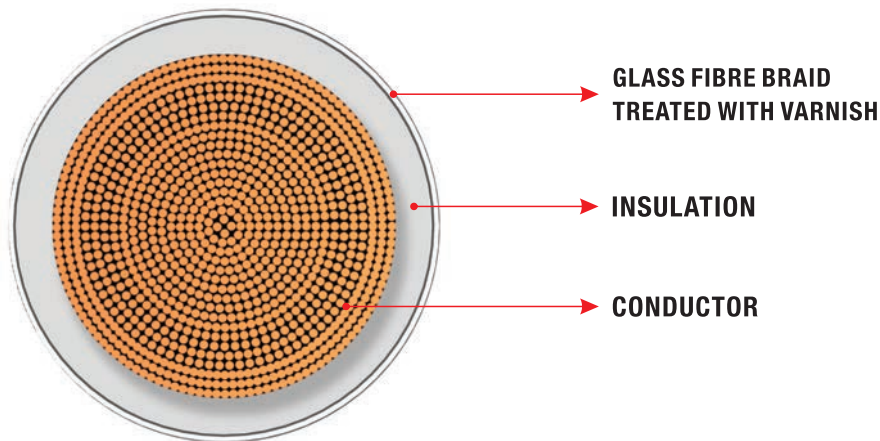
## CONSTRUCTION

**Conductor** : Annealed tin or plain electrolytic grade copper conductor as per IS 8130.

**Insulation** : Special silicon compound equivalent to or better than IE5 as per IS 6380.

**Braiding** : Glass fibre yarn braiding, treated with varnish.

## CONSTRUCTION DIAGRAM



## TECHNICAL SPECIFICATION

Rated Voltage : 1.1 KV

AC Test Voltage : 3.0 KV

## SPECIAL FEATURES

- Operation temperature : -50 to 180°C.
- Excellent flexibility, smooth finish, enhanced resistance to Heat, Ozone, Oxygen, Solvent, Chemicals and Fire

**PRODUCT RANGE:** Single core cable upto 240 sqmm & multicore cable upto 95 Sq.mm.

**FLEXIBLE MAINS AND CONTROL CABLES EPR, CSP**



**FLEXIBLE MAINS CABLES EPR, CSP**



**FLEXIBLE MAINS AND CONTROL CABLES H07RN-F**



**TOUGH RUBBER SHEATH FLEXIBLE CORDS**



**BRAIDED TOUGH RUBBER SHEATH FLEXIBLE CORDS**



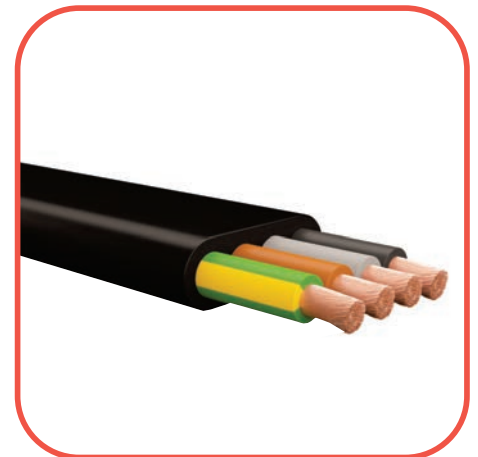
**COIL END LEAD FLEXIBLE MAINS CABLES**



**WELDING CABLES**



**RUBBER PLATFORM CABLES**



*Let's go green* 



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