



# RUBBER Cables



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THE QUALITY  
RE~~Q~~OLUTION

# ORBIT RUBBER CABLES

## APPLICATION:

ORBIT RR-E, IS 9968-1 tinned copper conductor, EPR insulated and HOFR elastomer sheathed cable conforming to IS 9968-1 is designed to use for fixed wiring, single phase or three phase (earthed or unearthed) system for rated voltage up to and including 1100 V. These cables may be used on DC system for rated voltage grade 1500 V to earth. Suitable to use in elevator, lifts, cranes, mines, heater leads and electric iron leads etc.

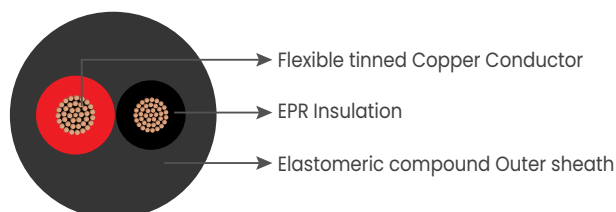
## VOLTAGE RATING:

1100 V

## OPERATION TEMPERATURE:

Fixed Temperature : -40°C to 90°C

Maximum short circuit temperature : 250°C



## CONSTRUCTION:

Annealed tinned electrolytic grade copper conductor to IS 8130, class 5.

Insulated with elastomeric compound IE 2 (EPR) to IS 6380.

Sheathed with HOFR elastomer as per IS 6380.

## BENDING RADIUS:

Fixed installation 12 x Overall Diameter

Occasional 10 x Overall Diameter

## STANDARD AND REFERENCES:

IS 8130:2013

IS 6380:1984\*

IS 9968:1988

## TEST VOLTAGE:

3000 V AC

## COMPLIANCE

Conductor resistance test : IS 8130

Covering resistance test : IS 6380:1984\*

Flammability : IEC 60332-1-2

## ADVANTAGES AND DISADVANTAGES

Impermeable For The Majority Of The General Gas.

Good Resistance To Ozone.

Very good water absorption properties.

Offer outstanding resistant to oils and other substances

Have exceptional abrasion resistance and weathering resistance.

Not Recommended For Use In Alcohols, Esters, Or Among The Aromatic Solution.

Be Exposed To Animal Or Vegetable Oil Or Chemicals In The Oxidizable Condition.

Difficult to handle during manufacturing because of its tendency to trap air, blister.

## ORBIT RUBBER CABLES, 1100 V AC ( SIZE AND DIMENSIONS AND RATINGS )

Nominal Cross Section (Sq mm)	Nominal Thickness of Insulation (mm)	Max Cond.DC Resistance @ 20°C (Ohms / Km)	Max Temp. of the Cond During Operation (°C)	Max Temp. of Cond. During Short Circuit (°C)	Overall Diameter			
					1 Core	2 Core	3 Core	4 Core
1.5	0.8	13.7	90	250	4.9	8.7	9.3	10.3
2.5	0.9	8.21	90	250	5.5	10.1	10.8	12.0
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	0.0617	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

### DE-RATING FACTOR

De-rating factor at various ambient temperature

Ambient Temperature : 30°C      Conductor Temperature : 90°C

Current carrying capacity in accordance with (free air) of IEC 60364 5-52

Ambient Temperature	20	30	40	50	60	70	80
De-Rating Factor	1.08	1	0.91	0.82	0.71	0.58	0.41

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