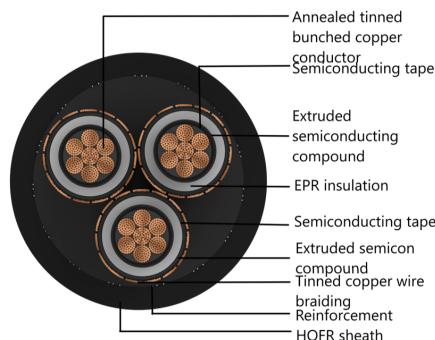


## Medium Voltage Rubber Flexible Cable



Images not to scale. Follow table for dimensions

### APPLICATION

POLY CAB MV CU IS 9968-2 of voltage grade 6.35/11 KV (E) or 6.6/6.6(UE) KV, annealed tinned copper conductor, conductor screening, EPR insulated, insulation screening, HOFR sheathed single & multi core cable is suitable to use for steel mills, wind power mills, ships, textile machines, turbines etc.

### CHARACTERISTICS

#### Voltage Rating

Nominal Voltage: 6.35/11 (E) or 6.6/6.6(UE) kV

#### Operation Temperature

Max. operating temperature: +90°C

Max. Short Circuit Temperature: 250°C

#### Bending Radius:

Single core cable 6 x Overall diameter  
Three core cable 8 x Overall diameter

### CONSTRUCTION

- Conductor: Circular Bunched Copper conductor as per IS 8130, class 5
- Conductor Screen: Semi-Conducting tape followed by extruded Semi-conductive compound
- Insulation: EPR as per IS 6380
- Non-Metallic Insulation Screen: Semi-conducting tape followed by extruded Semi-conductive compound
- Metallic Insulation Screen: Tinned copper wire braiding
- Inner Sheath: Extruded Elastomeric type SE3 as per IS 6380
- Reinforcement: Nylon or cotton or synthetic chords/yarns or proofed tape
- Outer Sheath: Extruded elastomeric compound type SE4 or HOFR as per IS 6380 Colour: Black

### Core Identification

White colour with number printing

### Test Voltage

17kV AC

### Impulse Test Voltage

Peak 75kV AC

### OUTSTANDING FEATURES

- Flexible
- High life
- UV resistant
- Oil resistant
- Chemical resistant
- Ozone resistant

### STANDARD FOLLOWS

IS 8130

IS 6380

IS 9968-2

### COMPLIANCE

Conductor resistance IS 8130

Insulation resistance IS 9968-2

Flammability IS 9968-2

Partial Discharge test IS 9968-2

### OUR ACCREDITATIONS



### APPROVAL



**Medium Voltage Rubber Flexible Cable**

**WEIGHT & DIMENSION DATA :**

Product Code	No. of Cores	Nominal Cross sectional Area	Nominal Insulation Thickness	Overall Diameter	Weight (Approx.)
		mm <sup>2</sup>			
RCIS17TRUARE001C016S	1	16	4	25	1100
RCIS17TRUARE001C025S	1	25	4	26	1250
RCIS17TRUARE001C035S	1	35	4	28	1400
RCIS17TRUARE001C050S	1	50	4	30	1700
RCIS17TRUARE001C070S	1	70	4	32	2000
RCIS17TRUARE001C095S	1	95	4	36	2750
RCIS17TRUARE001C120S	1	120	4	38	3100
RCIS17TRUARE001C150S	1	150	4	39	3450
RCIS17TRUARE001C185S	1	185	4	43	4100
RCIS17TRUARE001C240S	1	240	4	45	4750
RCIS17TRUARE001C300S	1	300	4	48	5500
RCIS17TRUARE003C016S	3	16	4	25	1100
RCIS17TRUARE003C025S	3	25	4	26	1250
RCIS17TRUARE003C035S	3	35	4	28	1400
RCIS17TRUARE003C050S	3	50	4	30	1700
RCIS17TRUARE003C070S	3	70	4	32	2000
RCIS17TRUARE003C095S	3	95	4	36	2750
RCIS17TRUARE003C120S	3	120	4	38	3100
RCIS17TRUARE003C150S	3	150	4	39	3450
RCIS17TRUARE003C185S	3	185	4	43	4100
RCIS17TRUARE003C240S	3	240	4	45	4750
RCIS17TRUARE003C300S	3	300	4	48	5500

## Medium Voltage Rubber Flexible Cable

### Electrical characteristics:

No. of Cores No.	Nominal Cross sectional Area mm <sup>2</sup>	Max. DC Resistance at 20°C Ω/km	Max. AC Resistance at 90°C Ω/km	Short circuit current rating kA/s	Reactance (Approx.) Ω/km	Current carrying capacity in air	
						Trefoil Amp.	Flat touching Amp.
1	16	1.24	1.581	2.29	0.1579		
1	25	0.795	1.014	3.58	0.1472	150	153
1	35	0.565	0.721	5.01	0.1393	181	185
1	50	0.393	0.501	7.15	0.1335	216	219
1	70	0.277	0.354	10.02	0.1264	269	273
1	95	0.21	0.268	13.59	0.1243	326	329
1	120	0.164	0.21	17.17	0.1197	376	378
1	150	0.132	0.169	21.46	0.1158	424	425
1	185	0.108	0.139	26.47	0.1138	487	480
1	240	0.0817	0.106	34.34	0.1094	568	552
1	300	0.0654	0.086	42.93	0.1055	643	616

No. of Cores No.	Nominal Cross sectional Area mm <sup>2</sup>	Max. DC Resistance at 20°C Ω/km	Max. AC Resistance at 90°C Ω/km	Short circuit current rating kA/s	Reactance (Approx.) Ω/km	Current carrying capacity in air	
						Reactance (Approx.) Ω/km	Amp.
3	16	1.24	1.581	2.29	0.1372		
3	25	0.795	1.014	3.58	0.1305		133
3	35	0.565	0.721	5.01	0.1208		160
3	50	0.393	0.501	7.15	0.1140		191
3	70	0.277	0.354	10.02	0.1081		237
3	95	0.21	0.268	13.59	0.1053		286
3	120	0.164	0.21	17.17	0.1017		329
3	150	0.132	0.169	21.46	0.0986		371
3	185	0.108	0.139	26.47	0.0972		422
3	240	0.0817	0.106	34.34	0.0923		493
3	300	0.0654	0.086	42.93	0.0895		560

Maximum conductor temperature - 90°C

Ambient air temperature - 40°C

Ground temperature - 30°C

The above table in accordance with IS 3961(Part 7)

**Medium Voltage Rubber Flexible Cable****De-rating Factor**

Ambient Temperature	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
De-Rating Factor	1.14	1.10	1.05	1.00	0.95	0.89	0.84	0.77

POLY CAB