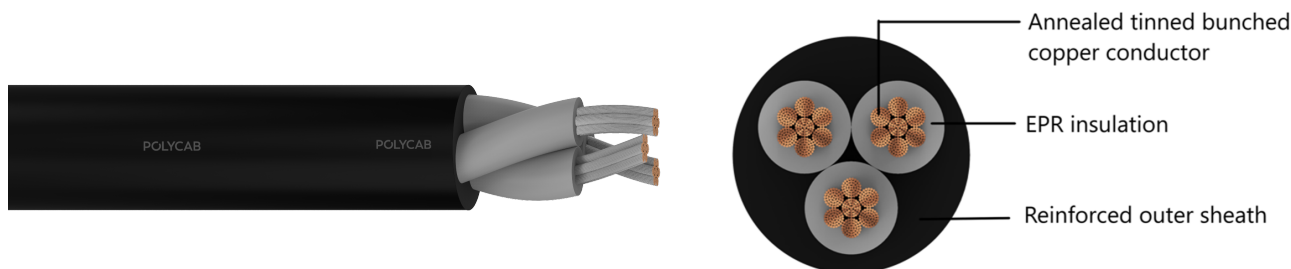


POLYCAB MV CU IS 9968-2 3.8/6.6(E) KV

Medium Voltage Rubber Flexible Cable, 3.8/6.6 (E) KV AC



Images not to scale. Follow table for dimensions

APPLICATION

POLYCAB MV CU IS 9968-2 of voltage grade 3.8/6.6 (E) KV, annealed tinned copper conductor, EPR insulated, 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: 3.8/6.6 (E) 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
- Insulation: EPR as per IS 6380
- Outer Sheath: Reinforced extruded elastomeric compound type SE4 or HOFR as per IS 6380 Colour: Black

Core Identification

White colour with number printing

Test Voltage

12 kV 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

OUR ACCREDITATIONS



APPROVAL



POLYCAB MV CU IS 9968-2 3.8/6.6(E) KV

Medium Voltage Rubber Flexible Cable, 3.8/6.6 (E) KV AC

WEIGHT & DIMENSION DATA :

Product Code	No. of Cores	Nominal Cross-sectional Area	Nominal Insulation Thickness	Overall Diameter	Weight (Approx.)
		mm ²	mm	mm	Kg/Km
RCIS15TRUARE001C016S	1	16	3	18	550
RCIS15TRUARE001C025S	1	25	3	19	650
RCIS15TRUARE001C035S	1	35	3	21	800
RCIS15TRUARE001C050S	1	50	3	23	1000
RCIS15TRUARE001C070S	1	70	3	25	1250
RCIS15TRUARE001C095S	1	95	3	28	1600
RCIS15TRUARE001C120S	1	120	3	29	1850
RCIS15TRUARE001C150S	1	150	3	31	2150
RCIS15TRUARE001C185S	1	185	3	34	2700
RCIS15TRUARE001C240S	1	240	3	36	3250
RCIS15TRUARE001C300S	1	300	3	40	4050
RCIS15TRUARE003C016S	3	16	3	35	1550
RCIS15TRUARE003C025S	3	25	3	38	1900
RCIS15TRUARE003C035S	3	35	3	42	2450
RCIS15TRUARE003C050S	3	50	3	45	3000
RCIS15TRUARE003C070S	3	70	3	49	3700
RCIS15TRUARE003C095S	3	95	3	55	4800
RCIS15TRUARE003C120S	3	120	3	58	5650
RCIS15TRUARE003C150S	3	150	3	64	6850
RCIS15TRUARE003C185S	3	185	3	68	8100
RCIS15TRUARE003C240S	3	240	3	75	10150
RCIS15TRUARE003C300S	3	300	3	80	12200

Electrical characteristics:

No. of Cores No.	Nominal Cross sectional Area mm ²	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	1.582	2.29	0.1370	94	108
1	25	0.795	1.015	3.58	0.1275	148	151
1	35	0.565	0.722	5.01	0.1206	179	183

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POLYCAB MV CU IS 9968-2 3.8/6.6(E) KV

Medium Voltage Rubber Flexible Cable, 3.8/6.6 (E) KV AC

No. of Cores No.	Nominal Cross sectional Area mm ²	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	50	0.393	0.503	7.15	0.1161	214	218
1	70	0.277	0.355	10.02	0.1100	267	271
1	95	0.21	0.271	13.59	0.1073	323	327
1	120	0.164	0.213	17.17	0.1035	374	376
1	150	0.132	0.172	21.46	0.1003	422	422
1	185	0.108	0.143	26.47	0.0998	484	481
1	240	0.0817	0.11	34.34	0.0962	565	550
1	300	0.0654	0.091	42.93	0.0953	641	615

No. of Cores No.	Nominal Cross sectional Area mm ²	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 Amp.
3	16	1.24	1.582	2.29	0.1106	89
3	25	0.795	1.015	3.58	0.1034	132
3	35	0.565	0.722	5.01	0.0983	159
3	50	0.393	0.503	7.15	0.0934	188
3	70	0.277	0.355	10.02	0.0893	234
3	95	0.21	0.271	13.59	0.0860	284
3	120	0.164	0.213	17.17	0.0836	326
3	150	0.132	0.172	21.46	0.0817	368
3	185	0.108	0.143	26.47	0.0798	422
3	240	0.0817	0.11	34.34	0.0778	492
3	300	0.0654	0.091	42.93	0.1106	559

Maximum conductor temperature - 90°C
Ambient air temperature - 40°C
Ground temperature - 30°C
The above table in accordance with IS 3961(Part 7)

De-Ratting Factor

De-rating factors for other than 40°C ambient air temperature.

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