

POLYCAB EPR insulated HT flexible elastomeric cable conforming to IS 9968-2.



Polycab offers a comprehensive range of HT rubber flexible cable conforming to IS 9968-2. These cables are available in voltage grade of 1.9/3.3kv(E), 3.8/6.6kv(E), 6.35/11kv(E) or 6.6/6.6kv(UE), 12.7/22kv (E) or 11/11kv(UE), 19/33kv(E), single core & three core with operating temperature 90°C and short circuit conductor temperature 250°C.

The highly flexible and robust Polycab HT Rubber cable makes its use in steel mills, wind power mills, ships, textile machines and turbines. Polycab Flexible rubber cable is highly resistant to Heat, oil, ozone & UV.

Conductor: High conductivity tin coated flexible copper conductor produced in-house from state-of-the-art Machine.

Screening: Conductor screened by semi-conducting tape followed by extruded semi-conducting layer for voltage rating 6.35/11kv(E) and above.

Insulation: In-house developed elastomeric compound ethylene propylene rubber (EPR).

Screening: Insulation screened by semi-conducting tape followed by extruded semi-conducting layer and tinned copper wire braiding as metallic screening for voltage rating 6.35/11kv(E) and above.

Sheath: HOFR (Heat & Oil resistant flame retardant) reinforcing sheath.

Polycab assures the highest quality standard in every product by having stringent quality control with requisite testing which are applied at every single stage from raw material to finished goods.

The construction is based on the application and requirement of the user against IS 9968-2.



POLYCAB MV CU IS 9968-2 1.9/3.3(E) or 3.3/3.3(UE) KV - Medium Voltage Rubber Flexible Cable, 1.9/3.3(E) or 3.3/3.3(UE) KV AC



POLYCAB MV CU IS 9968-2 3.8/6.6(E) KV - Medium Voltage Rubber Flexible Cable, .8/6.6 (E) KV AC



POLYCAB MV CU IS 9968-2 6.35/11(E) or 6.6/6.6 (UE) KV - Medium Voltage Rubber Flexible Cable, 6.35/11(E) or 6.6/6.6(UE) KV AC



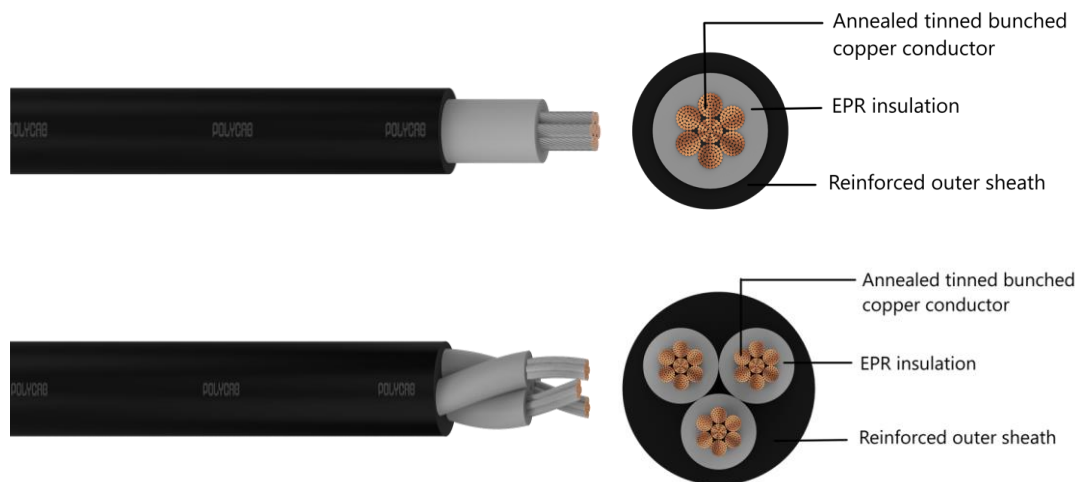
POLYCAB MV CU IS 9968-2 19/33(E) KV - Medium Voltage Rubber Flexible Cable, 19/33(E) KV AC



POLYCAB MV CU IS 9968-2 12.7/22(E) or 11/11 (UE) KV -Medium Voltage Rubber Flexible Cable, 12.7/22(E) or 11/11(UE) KV AC

POLYCAB MV CU IS 9968-2 1.9/3.3(E) or 3.3/3.3(UE) KV

Medium Voltage Rubber Flexible Cable, 1.9/3.3(E) or 3.3/3.3(UE) KV AC



Outstanding Features

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

Application

POLYCAB MV CU IS 9968-2 of voltage grade 1.9/3.3(E) or 3.3/3.3(UE) KV, annealed tinned copper conductor, EPR insulated and HOFR sheathed single & three core cable is suitable to use for steel mills, wind power mills, ships, textile machines, turbines etc.

Voltage Rating

Nominal Voltage: 1.9/3.3 (E) kV

Operation Temperature

Max. operating temperature: +90°C

Max. Short Circuit Temperature: 250°C

Construction

- Conductor: Circular Bunched tinned 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

Bending Radius:

Single core cable 6 x Overall diameter

Three core cable 8 x Overall diameter

Standard and References:

IS 8130

IS 6380

IS 9968-2

Test Voltage

10 kV AC

Compliance

Conductor resistance IS 8130

Insulation resistance IS 9968-2

Flammability IS 9968-2

Approval



OUR ACCREDITATION



ISO
9001

ISO
14001

ISO
45001

NABL

ABS

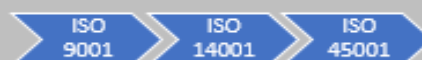
IRS

POLYCAB MV CU IS 9968-2 1.9/3.3(E) or 3.3/3.3(UE) KV

Medium Voltage Rubber Flexible Cable, 1.9/3.3(E) or 3.3/3.3(UE) KV AC

Product Code	No. of Cores	Nominal Cross sectional Area mm ²	Nominal Insulation Thickness mm	Overall Diameter mm	Weight (Approx.) Kg/Km
RCIS10TRUARE001C016S	1	16	2.2	15	400
RCIS10TRUARE001C025S	1	25	2.2	16	500
RCIS10TRUARE001C035S	1	35	2.2	17	650
RCIS10TRUARE001C050S	1	50	2.2	19	800
RCIS10TRUARE001C070S	1	70	2.2	21	1050
RCIS10TRUARE001C095S	1	95	2.4	24	1350
RCIS10TRUARE001C120S	1	120	2.4	26	1650
RCIS10TRUARE001C150S	1	150	2.4	28	1950
RCIS10TRUARE001C185S	1	185	2.4	30	2350
RCIS10TRUARE001C240S	1	240	2.4	33	2950
RCIS10TRUARE001C300S	1	300	2.4	36	3650
RCIS10TRUARE003C016S	3	16	2.2	30	1250
RCIS10TRUARE003C025S	3	25	2.2	33	1600
RCIS10TRUARE003C035S	3	35	2.2	37	2050
RCIS10TRUARE003C050S	3	50	2.2	42	2750
RCIS10TRUARE003C070S	3	70	2.2	45	3450
RCIS10TRUARE003C095S	3	95	2.4	52	4600
RCIS10TRUARE003C120S	3	120	2.4	56	5400
RCIS10TRUARE003C150S	3	150	2.4	59	6350
RCIS10TRUARE003C185S	3	185	2.4	65	7850
RCIS10TRUARE003C240S	3	240	2.4	72	9850
RCIS10TRUARE003C300S	3	300	2.4	78	11850

OUR ACCREDITATION



POLYCAB MV CU IS 9968-2 1.9/3.3(E) or 3.3/3.3(UE) KV

Medium Voltage Rubber Flexible Cable, 1.9/3.3(E) or 3.3/3.3(UE) KV AC

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	0.1243	94	108
1	25	0.795	1.015	3.58	0.1158	148	151
1	35	0.565	0.722	5.01	0.1097	179	183
1	50	0.393	0.503	7.15	0.1037	214	218
1	70	0.277	0.355	10.02	0.1010	267	271
1	95	0.21	0.271	13.59	0.0976	323	327
1	120	0.164	0.213	17.17	0.0965	374	376
1	150	0.132	0.172	21.46	0.0937	422	422
1	185	0.108	0.143	26.47	0.0908	484	481
1	240	0.0817	0.11	34.34	0.0894	565	550
1	300	0.0654	0.091	42.93	0.0882	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	0.1007	89
3	25	0.795	1.015	3.58	0.0945	132
3	35	0.565	0.722	5.01	0.0902	159
3	50	0.393	0.503	7.15	0.0862	188
3	70	0.277	0.355	10.02	0.0829	234
3	95	0.21	0.271	13.59	0.0817	284
3	120	0.164	0.213	17.17	0.0797	326
3	150	0.132	0.172	21.46	0.0781	368
3	185	0.108	0.143	26.47	0.0764	422
3	240	0.0817	0.11	34.34	0.0748	492
3	300	0.0654	0.091	42.93	0.0734	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-Rating Factor

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

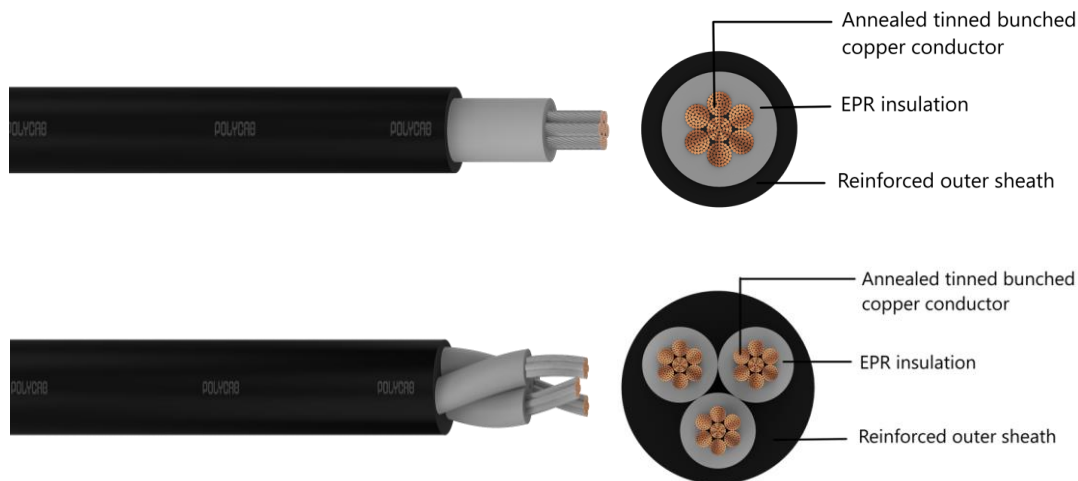
Ambient Temperature	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
De-Rating Factor	1.14	1.10	1.05	1.00	0.95	0.89	0.84	0.77

OUR ACCREDITATION



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

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



Outstanding Features

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

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.

Voltage Rating

Nominal Voltage: 3.8/6.6 (E) kV

Operation Temperature

Max. operating temperature: +90°C

Max. Short Circuit Temperature: 250°C

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

Bending Radius:

Single core cable 6 x Overall diameter

Three core cable 8 x Overall diameter

Standard and References:

IS 8130

IS 6380

IS 9968-2

Test Voltage

12 kV AC

Compliance

Conductor resistance IS 8130

Insulation resistance IS 9968-2

Flammability IS 9968-2

Approval



OUR ACCREDITATION



ISO
9001

ISO
14001

ISO
45001

NABL

ABS

IRS

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

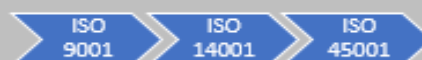
Medium Voltage Rubber Flexible Cable, 3.8/6.6 (E) KV AC

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
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

OUR ACCREDITATION



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 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

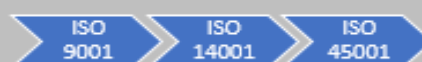
Maximum conductor temperature 90°C
 Ambient air temperature 40°C
 Ground temperature 30°C
 The above table in accordance with IS 3961(Part 7)

De-Ratting Factor

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

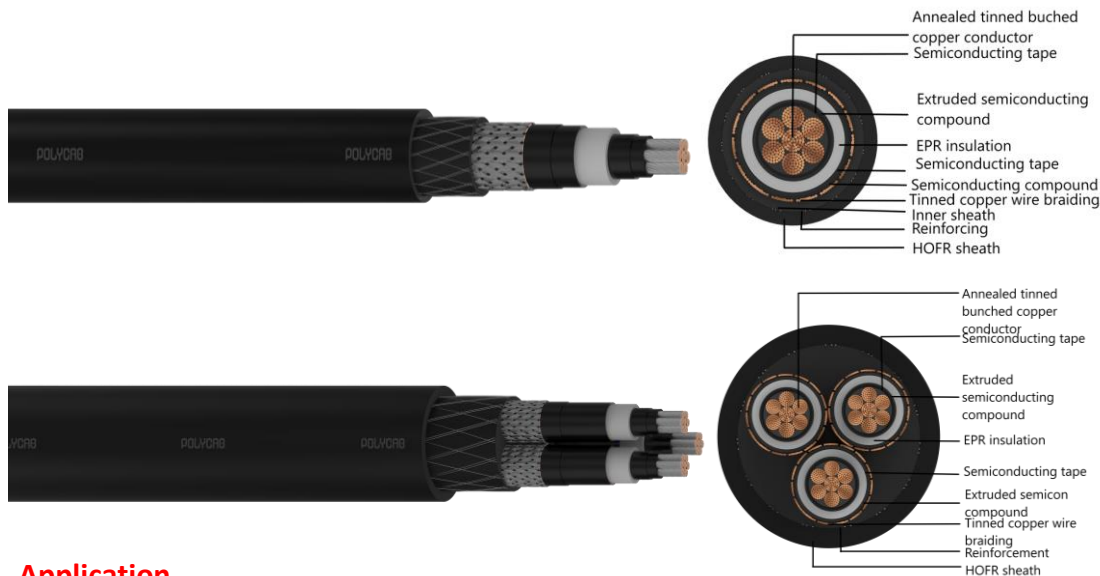
Ambient Temperature	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
De-Rating Factor	1.14	1.10	1.05	1.00	0.95	0.89	0.84	0.77

OUR ACREDITATION



POLYCAB MV CU IS 9968-2 6.35/11(E) or 6.6/6.6 (UE) KV

Medium Voltage Rubber Flexible Cable, 6.35/11(E) or 6.6/6.6(UE) KV AC



Outstanding Features

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

Application

POLYCAB 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.

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

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

Standard and References:

IS 8130

IS 6380

IS 9968-2

Test Voltage

17kV AC

Impulse Test Voltage

Peak 75kV AC

Compliance

Conductor resistance IS 8130

Insulation resistance IS 9968-2

Flammability IS 9968-2

Partial Discharge test IS 9968-2

Approval



Core Identification

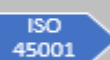
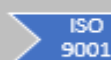
White colour with number printing

Bending Radius:

Single core cable 6 x Overall diameter

Three core cable 8 x Overall diameter

OUR ACCREDITATION



NABL

ABS

IRS

POLYCAB MV CU IS 9968-2 6.35/11(E) or 6.6/6.6 (UE) KV

Medium Voltage Rubber Flexible Cable, 6.35/11(E) or 6.6/6.6(UE) KV AC

Product Code	No. of Cores	Nominal Cross sectional Area mm ²	Nominal Insulation Thickness mm	Overall Diameter mm	Weight (Approx.) Kg/Km
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

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	1.581	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

OUR ACCREDITATION



POLYCAB MV CU IS 9968-2 6.35/11(E) or 6.6/6.6 (UE) KV

Medium Voltage Rubber Flexible Cable, 6.35/11(E) or 6.6/6.6(UE) 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 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)

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

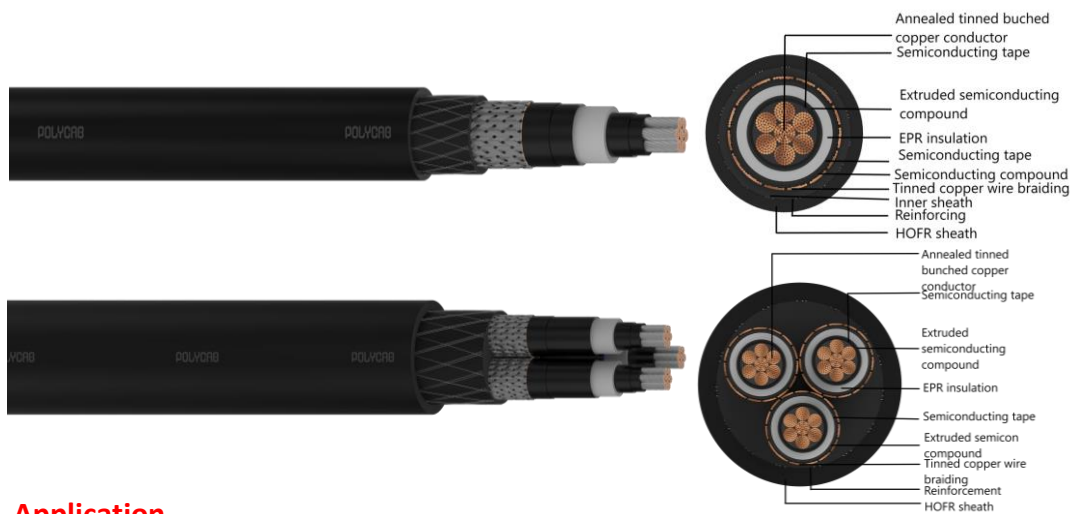
Ambient Temperature	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
De-Rating Factor	1.14	1.10	1.05	1.00	0.95	0.89	0.84	0.77

OUR ACCREDITATION



POLYCAB MV CU IS 9968-2 12.7/22(E) or 11/11 (UE) KV

Medium Voltage Rubber Flexible Cable, 12.7/22(E) or 11/11(UE) KV AC



Outstanding Features

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

Application

POLYCAB MV CU IS 9968-2 of voltage grade 12.7/22 KV (E) or 11/11(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.

Voltage Rating

Nominal Voltage: 12.7/22 (E) or 11/11 (UE) kV

Operation Temperature

Max. operating temperature: +90°C

Max. Short Circuit Temperature: 250°C

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

Standard and References:

IS 8130

IS 6380

IS 9968-2

Test Voltage

32 kV AC

Impulse Test Voltage

Peak 125 kV AC

Compliance

Conductor resistance IS 8130

Insulation resistance IS 9968-2

Flammability IS 9968-2

Partial Discharge test IS 9968-2

Approval



Core Identification

White colour with number printing

Bending Radius:

Single core cable 6 x Overall diameter

Three core cable 8 x Overall diameter

OUR ACCREDITATION



ISO
9001

ISO
14001

ISO
45001

NABL

ABS

IRS

POLYCAB MV CU IS 9968-2 12.7/22(E) or 11/11 (UE) KV

Medium Voltage Rubber Flexible Cable, 12.7/22(E) or 11/11(UE) KV AC

Product Code	No. of Cores	Nominal Cross sectional Area	Nominal Insulation Thickness	Overall Diameter	Weight (Approx.)
		mm ²	mm	mm	Kg/km
RCIS12TRUARE001C035S	1	35	6	33	2600
RCIS12TRUARE001C050S	1	50	6	37	3900
RCIS12TRUARE001C070S	1	70	6	38	4300
RCIS12TRUARE001C095S	1	95	6	40	4800
RCIS12TRUARE001C120S	1	120	6	43	5400
RCIS12TRUARE001C150S	1	150	6	45	5850
RCIS12TRUARE001C185S	1	185	6	47	6450
RCIS12TRUARE001C240S	1	240	6	49	7300
RCIS12TRUARE001C300S	1	300	6	54	8450
RCIS12TRUARE003C035S	3	35	6	69	6000
RCIS12TRUARE003C050S	3	50	6	74	7700
RCIS12TRUARE003C070S	3	70	6	78	8700
RCIS12TRUARE003C095S	3	95	6	84	10250
RCIS12TRUARE003C120S	3	120	6	87	11350
RCIS12TRUARE003C150S	3	150	6	92	12950
RCIS12TRUARE003C185S	3	185	6	96	14500
RCIS12TRUARE003C240S	3	240	6	104	17050
RCIS12TRUARE003C300S	3	300	6	109	19500

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	35	0.565	0.721	5.01	0.1500	185	188
1	50	0.393	0.501	7.15	0.1456	224	227
1	70	0.277	0.354	10.02	0.1378	278	280
1	95	0.21	0.268	13.59	0.1311	336	336
1	120	0.164	0.21	17.17	0.1284	386	384
1	150	0.132	0.169	21.46	0.1241	434	429
1	185	0.108	0.139	26.47	0.1196	494	485
1	240	0.0817	0.106	34.34	0.1149	575	556
1	300	0.0654	0.086	42.93	0.1130	644	611

OUR ACCREDITATION



POLYCAB MV CU IS 9968-2 12.7/22(E) or 11/11 (UE) KV

Medium Voltage Rubber Flexible Cable, 12.7/22(E) or 11/11(UE) 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 Amp.
3	35	0.565	0.721	5.01	0.1329	164
3	50	0.393	0.501	7.15	0.1273	196
3	70	0.277	0.354	10.02	0.1205	243
3	95	0.21	0.268	13.59	0.1148	293
3	120	0.164	0.21	17.17	0.1106	336
3	150	0.132	0.169	21.46	0.1072	378
3	185	0.108	0.139	26.47	0.1035	431
3	240	0.0817	0.106	34.34	0.0997	503
3	300	0.0654	0.086	42.93	0.0965	571

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-Rating Factor

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

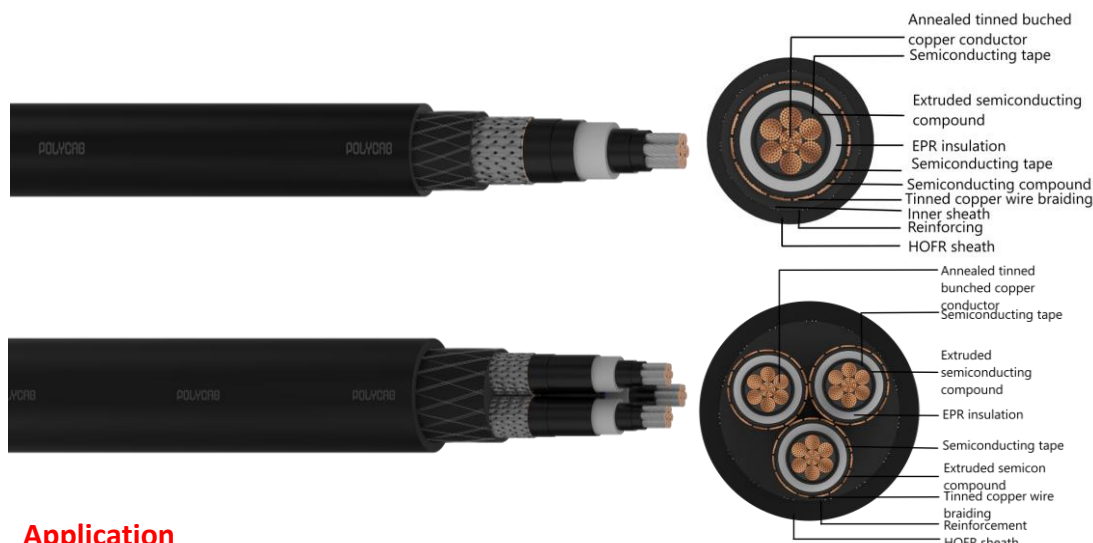
Ambient Temperature	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C
De-Rating Factor	1.14	1.10	1.05	1.00	0.95	0.89	0.84	0.77

OUR ACCREDITATION



POLYCAB MV CU IS 9968-2 19/33(E) KV

Medium Voltage Rubber Flexible Cable, 19/33(E) KV AC



Outstanding Features

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

Application

POLYCAB MV CU IS 9968-2 of voltage grade 19/33(E) KV, annealed tinned copper conductor, conductor screened, 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.

Voltage Rating

Nominal Voltage: 12.7/22 (E) KV

Operation Temperature

Max. operating temperature: +90°C

Max. Short Circuit Temperature: 250°C

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

Bending Radius:

Single core cable 6 x Overall diameter

Three core cable 8 x Overall diameter

Standard and References:

IS 8130

IS 6380

IS 9968-2

Test Voltage

48 kV AC

Impulse Test Voltage

Peak 170 kV AC

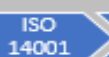
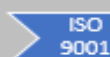
Compliance

Conductor resistance	IS 8130
Insulation resistance	IS 9968-2
Flammability	IS 9968-2
Partial Discharge test	IS 9968-2

Approval



OUR ACCREDITATION



POLYCAB MV CU IS 9968-2 19/33(E) KV

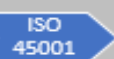
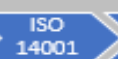
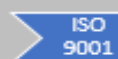
Medium Voltage Rubber Flexible Cable, 19/33(E) KV AC

Product Code	No. of Cores	Nominal Cross sectional Area mm ²	Nominal Insulation Thickness mm	Overall Diameter mm	Weight (Approx.) Kg/Km
RCIS13TRUARE001C035S	1	35	8.8	43	3250
RCIS13TRUARE001C050S	1	50	8.8	45	3600
RCIS13TRUARE001C070S	1	70	8.8	47	4000
RCIS13TRUARE001C095S	1	95	8.8	49	4350
RCIS13TRUARE001C120S	1	120	8.8	50	4750
RCIS13TRUARE001C150S	1	150	8.8	54	5550
RCIS13TRUARE001C185S	1	185	8.8	56	6250
RCIS13TRUARE001C240S	1	240	8.8	59	7100
RCIS13TRUARE001C300S	1	300	8.8	43	3250
RCIS13TRUARE003C035S	3	35	8.8	87	9750
RCIS13TRUARE003C050S	3	50	8.8	92	11200
RCIS13TRUARE003C070S	3	70	8.8	96	12450
RCIS13TRUARE003C095S	3	95	8.8	100	13650
RCIS13TRUARE003C120S	3	120	8.8	105	15350
RCIS13TRUARE003C150S	3	150	8.8	109	17000
RCIS13TRUARE003C185S	3	185	8.8	114	19200
RCIS13TRUARE003C240S	3	240	8.8	120	21700
RCIS13TRUARE003C300S	3	300	8.8	87	9750

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	35	0.565	0.721	5.01	0.1563	224	227
1	50	0.393	0.501	7.15	0.1480	278	280
1	70	0.277	0.354	10.02	0.1409	336	336
1	95	0.21	0.268	13.59	0.1357	386	384
1	120	0.164	0.21	17.17	0.1312	434	429
1	150	0.132	0.169	21.46	0.1286	494	485
1	185	0.108	0.139	26.47	0.1235	575	556
1	240	0.0817	0.106	34.34	0.1190	644	611
1	300	0.0654	0.086	42.93	0.1563	224	227

OUR ACCREDITATION



POLYCAB MV CU IS 9968-2 19/33(E) KV

Medium Voltage Rubber Flexible Cable, 19/33(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 Amp.
3	35	0.565	0.721	5.01	0.1400	152
3	50	0.393	0.501	7.15	0.1325	189
3	70	0.277	0.354	10.02	0.1260	227
3	95	0.21	0.268	13.59	0.1214	262
3	120	0.164	0.21	17.17	0.1175	294
3	150	0.132	0.169	21.46	0.1133	336
3	185	0.108	0.139	26.47	0.1089	393
3	240	0.0817	0.106	34.34	0.1051	448
3	300	0.0654	0.086	42.93	0.1400	152

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-Rating 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

OUR ACCREDITATION

