

MVCECH 8.7 / 15 (17.5) kV

MV Power Cable



CABLE STRUCTURE

Conductor	Electrolytic, stranded, annealed copper wire IEC 60228 Class 2 (Class 5 and / or tinned on request)
Conductor Screen	Semiconductive layer
Insulation	HF HEPR Compound
Insulation Screen	Semiconductive layer
Core Screen	Copper Tape
Bedding	Halogen-free bedding compound
Screen	Electrolytic copper braided screen (90% coverage) (Tinned copper wire braid on request)
Outer Sheath	Halogen-free, flame retardant, polyolefin compound, SHF1 (SHF2 on request)
Colour	Red

STANDARDS & MAIN CHARACTERISTICS

Construction	IEC 60092 / 354
Tests And Material	IEC 60092 / 350-360
Flame Retardant	IEC 60332 / 1-2, IEC 60332 / 3-22 Cat A
Halogen Content	IEC 60754 / 1-2
Smoke Emission	IEC 61034 / 1-2 (DIN EN 50268 / 1-2)
Ozon Resistance	IEC 60811 / 403
Shielding Effectiveness (For Emc Type)	DIN EN 50147-1
Working Temperature	-40°C / + 90°C
Min. Bending Radius (fixed)	For Single Core Cables 12 x D For 3 Core Cables 9 x D
Rated Voltage	8,7 / 15 kV
Test Voltage	30,5 kV

Minimum recommended installation temperature -15°C

For core identification, diameter tolerances and current ratings etc. see technical information section

Application

Medium Voltage power distribution, electric power transport between the engine room generator and electrical machines. Used as fixed installation cables in various electromechanical and electronic equipments. Due to its' overall screen the electromagnetic interference is minimized.



Halogen Free



Low Smoke Density



Flame Retardant



Rated Voltage



Test Voltage



Working Temperature



Bending Radius



No Corrosivity

Cross Section (mm ²)	Nominal Overall Diameter (mm)	Approximate Weight (kg / km)	Min. Bending Radius Fixed Installed (mm)	Max Resistance of Conductors at 20°C (ohm / km)	Current Carrying Capacity at 45°C (A)
1 x 25	25,5-29,5	1100	354	0,727	127
1 x 35	27,0-31,3	1260	376	0,524	157
1 x 50	29,1-33,7	1490	404	0,387	196
1 x 70	29,6-34,3	1700	412	0,268	242
1 x 95	31,3-36,2	2000	434	0,193	293
1 x 120	33,9-39,2	2420	470	0,153	339
1 x 150	35,8-41,4	2840	496	0,124	389
1 x 185	37,6-43,5	3250	522	0,0991	444
1 x 240	40,3-46,7	3970	560	0,0754	522
1 x 300	42,6-49,3	4650	592	0,0601	601
3 x 25	49,2-56,9	3900	512	0,727	89
3 x 35	52,2-60,4	4450	544	0,524	110
3 x 50	54,5-63,0	5070	567	0,387	137
3 x 70	58,1-67,3	6030	606	0,268	169
3 x 95	62,0-71,8	7220	646	0,193	205
3 x 120	65,0-75,3	8300	678	0,153	237
3 x 150	69,9-80,9	9600	728	0,124	272
3 x 185	73,8-85,4	11150	768	0,0991	311
3 x 240	79,1-91,6	13550	824	0,0754	365
3 x 300	85,0-98,4	16300	886	0,0601	421