



SINGLE CORE MV CABLE

IEC 60502-2

30 orderable sizes

STANDARD IEC 60502-2	VOLTAGE CLASS 3.6/6 kV to 18/30 kV and customer-specified MV classes	CONDUCTOR Copper or aluminium conductor
INSULATION / JACKET PVC		

Construction

- 1 ■ **Conductor** – Copper conductor · 37 × Ø2.27 mm · IEC 60228 cl.2
- 2 ■ **Conductor screen** – Semi-conducting layer
- 3 ■ **Insulation** – XLPE
- 4 ■ **Insulation screen** – Semi-conducting layer
- 5 ■ **Metallic screen** – Copper wire screen (CWS)
- 6 ■ **Sheath** – PVC

Size selection — all available cross-sections

Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
IEC 60502-2 single core MV cable 3.6/6 kV Single core Copper 25 mm ² PVC	3.6/6 kV	25 mm ²	0.727 Ω/km	16 mm ² copper wire screen	31 mm
IEC 60502-2 single core MV cable 3.6/6 kV Single core Copper 50 mm ² PVC	3.6/6 kV	50 mm ²	0.387 Ω/km	16 mm ² copper wire screen	34 mm
IEC 60502-2 single core MV cable 3.6/6 kV Single core Copper 95 mm ² PVC	3.6/6 kV	95 mm ²	0.193 Ω/km	16 mm ² copper wire screen	39 mm
IEC 60502-2 single core MV cable 3.6/6 kV Single core Copper 150 mm ² PVC	3.6/6 kV	150 mm ²	0.124 Ω/km	16 mm ² copper wire screen	43 mm
IEC 60502-2 single core MV cable 3.6/6 kV Single core Copper 240 mm ² PVC	3.6/6 kV	240 mm ²	0.0754 Ω/km	25 mm ² copper wire screen	48 mm

Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
IEC 60502-2 single core MV cable 3.6/6 kV Single core Copper 400 mm ² PVC	3.6/6 kV	400 mm ²	0.0470 Ω/km	35 mm ² copper wire screen	56 mm
IEC 60502-2 single core MV cable 6/10 kV Single core Copper 35 mm ² PVC	6/10 kV	35 mm ²	0.524 Ω/km	16 mm ² copper wire screen	32 mm
IEC 60502-2 single core MV cable 6/10 kV Single core Copper 70 mm ² PVC	6/10 kV	70 mm ²	0.268 Ω/km	16 mm ² copper wire screen	36 mm
IEC 60502-2 single core MV cable 6/10 kV Single core Copper 120 mm ² PVC	6/10 kV	120 mm ²	0.153 Ω/km	16 mm ² copper wire screen	41 mm
IEC 60502-2 single core MV cable 6/10 kV Single core Copper 185 mm ² PVC	6/10 kV	185 mm ²	0.0991 Ω/km	25 mm ² copper wire screen	45 mm
IEC 60502-2 single core MV cable 6/10 kV Single core Copper 300 mm ² PVC	6/10 kV	300 mm ²	0.0601 Ω/km	25 mm ² copper wire screen	51 mm
IEC 60502-2 single core MV cable 6/10 kV Single core Copper 500 mm ² PVC	6/10 kV	500 mm ²	0.0366 Ω/km	35 mm ² copper wire screen	60 mm
IEC 60502-2 single core MV cable 8.7/15 kV Single core Copper 50 mm ² PVC	8.7/15 kV	50 mm ²	0.387 Ω/km	16 mm ² copper wire screen	34 mm
IEC 60502-2 single core MV cable 8.7/15 kV Single core Copper 95 mm ² PVC	8.7/15 kV	95 mm ²	0.193 Ω/km	16 mm ² copper wire screen	39 mm
IEC 60502-2 single core MV cable 8.7/15 kV Single core Copper 150 mm ² PVC	8.7/15 kV	150 mm ²	0.124 Ω/km	16 mm ² copper wire screen	43 mm
IEC 60502-2 single core MV cable 8.7/15 kV Single core Copper 240 mm ² PVC	8.7/15 kV	240 mm ²	0.0754 Ω/km	25 mm ² copper wire screen	48 mm
IEC 60502-2 single core MV cable 8.7/15 kV Single core Copper 400 mm ² PVC	8.7/15 kV	400 mm ²	0.0470 Ω/km	35 mm ² copper wire screen	56 mm
IEC 60502-2 single core MV cable 8.7/15 kV Single core Copper 630 mm ² PVC	8.7/15 kV	630 mm ²	0.0283 Ω/km	35 mm ² copper wire screen	65 mm
IEC 60502-2 single core MV cable 12/20 kV Single core Copper 50 mm ² PVC	12/20 kV	50 mm ²	0.387 Ω/km	16 mm ² copper wire screen	37 mm
IEC 60502-2 single core MV cable 12/20 kV Single core Copper 95 mm ² PVC	12/20 kV	95 mm ²	0.193 Ω/km	16 mm ² copper wire screen	42 mm

Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
IEC 60502-2 single core MV cable 12/20 kV Single core Copper 150 mm ² PVC	12/20 kV	150 mm ²	0.124 Ω/km	16 mm ² copper wire screen	46 mm
IEC 60502-2 single core MV cable 12/20 kV Single core Copper 240 mm ² PVC	12/20 kV	240 mm ²	0.0754 Ω/km	25 mm ² copper wire screen	51 mm
IEC 60502-2 single core MV cable 12/20 kV Single core Copper 400 mm ² PVC	12/20 kV	400 mm ²	0.0470 Ω/km	35 mm ² copper wire screen	59 mm
IEC 60502-2 single core MV cable 12/20 kV Single core Copper 630 mm ² PVC	12/20 kV	630 mm ²	0.0283 Ω/km	35 mm ² copper wire screen	68 mm
IEC 60502-2 single core MV cable 18/30 kV Single core Copper 70 mm ² PVC	18/30 kV	70 mm ²	0.268 Ω/km	16 mm ² copper wire screen	42 mm
IEC 60502-2 single core MV cable 18/30 kV Single core Copper 120 mm ² PVC	18/30 kV	120 mm ²	0.153 Ω/km	16 mm ² copper wire screen	47 mm
IEC 60502-2 single core MV cable 18/30 kV Single core Copper 185 mm ² PVC	18/30 kV	185 mm ²	0.0991 Ω/km	25 mm ² copper wire screen	51 mm
IEC 60502-2 single core MV cable 18/30 kV Single core Copper 300 mm ² PVC	18/30 kV	300 mm ²	0.0601 Ω/km	25 mm ² copper wire screen	57 mm
IEC 60502-2 single core MV cable 18/30 kV Single core Copper 500 mm ² PVC	18/30 kV	500 mm ²	0.0366 Ω/km	35 mm ² copper wire screen	66 mm
IEC 60502-2 single core MV cable 18/30 kV Single core Copper 630 mm ² PVC	18/30 kV	630 mm ²	0.0283 Ω/km	35 mm ² copper wire screen	71 mm
Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
IEC 60502-2 single core MV cable 3.6/6 kV Single core Aluminium 25 mm ² PVC	3.6/6 kV	25 mm ²	1.20 Ω/km	16 mm ² copper wire screen	31 mm
IEC 60502-2 single core MV cable 3.6/6 kV Single core Aluminium 50 mm ² PVC	3.6/6 kV	50 mm ²	0.641 Ω/km	16 mm ² copper wire screen	34 mm
IEC 60502-2 single core MV cable 3.6/6 kV Single core Aluminium 95 mm ² PVC	3.6/6 kV	95 mm ²	0.320 Ω/km	16 mm ² copper wire screen	39 mm
IEC 60502-2 single core MV cable 3.6/6 kV Single core Aluminium 150 mm ² PVC	3.6/6 kV	150 mm ²	0.206 Ω/km	16 mm ² copper wire screen	43 mm
IEC 60502-2 single core MV cable 3.6/6 kV Single core	3.6/6 kV	240 mm ²	0.125 Ω/km	25 mm ² copper wire screen	48 mm

Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
Aluminium 240 mm ² PVC					
IEC 60502-2 single core MV cable 3.6/6 kV Single core Aluminium 400 mm ² PVC	3.6/6 kV	400 mm ²	0.0778 Ω/km	35 mm ² copper wire screen	56 mm
IEC 60502-2 single core MV cable 6/10 kV Single core Aluminium 35 mm ² PVC	6/10 kV	35 mm ²	0.868 Ω/km	16 mm ² copper wire screen	32 mm
IEC 60502-2 single core MV cable 6/10 kV Single core Aluminium 70 mm ² PVC	6/10 kV	70 mm ²	0.443 Ω/km	16 mm ² copper wire screen	36 mm
IEC 60502-2 single core MV cable 6/10 kV Single core Aluminium 120 mm ² PVC	6/10 kV	120 mm ²	0.253 Ω/km	16 mm ² copper wire screen	41 mm
IEC 60502-2 single core MV cable 6/10 kV Single core Aluminium 185 mm ² PVC	6/10 kV	185 mm ²	0.164 Ω/km	25 mm ² copper wire screen	45 mm
IEC 60502-2 single core MV cable 6/10 kV Single core Aluminium 300 mm ² PVC	6/10 kV	300 mm ²	0.100 Ω/km	25 mm ² copper wire screen	51 mm
IEC 60502-2 single core MV cable 6/10 kV Single core Aluminium 500 mm ² PVC	6/10 kV	500 mm ²	0.0605 Ω/km	35 mm ² copper wire screen	60 mm
IEC 60502-2 single core MV cable 8.7/15 kV Single core Aluminium 50 mm ² PVC	8.7/15 kV	50 mm ²	0.641 Ω/km	16 mm ² copper wire screen	34 mm
IEC 60502-2 single core MV cable 8.7/15 kV Single core Aluminium 95 mm ² PVC	8.7/15 kV	95 mm ²	0.320 Ω/km	16 mm ² copper wire screen	39 mm
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IEC 60502-2 single core MV cable 8.7/15 kV Single core Aluminium 400 mm ² PVC	8.7/15 kV	400 mm ²	0.0778 Ω/km	35 mm ² copper wire screen	56 mm
IEC 60502-2 single core MV cable 8.7/15 kV Single core Aluminium 630 mm ² PVC	8.7/15 kV	630 mm ²	0.0469 Ω/km	35 mm ² copper wire screen	65 mm
IEC 60502-2 single core MV cable 12/20 kV Single core Aluminium 50 mm ² PVC	12/20 kV	50 mm ²	0.641 Ω/km	16 mm ² copper wire screen	37 mm
IEC 60502-2 single core MV cable 12/20 kV Single core Aluminium 95 mm ² PVC	12/20 kV	95 mm ²	0.320 Ω/km	16 mm ² copper wire screen	42 mm

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IEC 60502-2 single core MV cable 12/20 kV Single core Aluminium 240 mm ² PVC	12/20 kV	240 mm ²	0.125 Ω/km	25 mm ² copper wire screen	51 mm
IEC 60502-2 single core MV cable 12/20 kV Single core Aluminium 400 mm ² PVC	12/20 kV	400 mm ²	0.0778 Ω/km	35 mm ² copper wire screen	59 mm
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IEC 60502-2 single core MV cable 18/30 kV Single core Aluminium 185 mm ² PVC	18/30 kV	185 mm ²	0.164 Ω/km	25 mm ² copper wire screen	51 mm
IEC 60502-2 single core MV cable 18/30 kV Single core Aluminium 300 mm ² PVC	18/30 kV	300 mm ²	0.100 Ω/km	25 mm ² copper wire screen	57 mm
IEC 60502-2 single core MV cable 18/30 kV Single core Aluminium 500 mm ² PVC	18/30 kV	500 mm ²	0.0605 Ω/km	35 mm ² copper wire screen	66 mm
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