



### THREE CORE ARMoured MV CABLE

IEC 60502-2

25 orderable sizes

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

### Construction

- 1 ■ Conductor (per core) – Copper conductor · 37 × Ø2.27 mm · IEC 60228 cl.2
- 2 ■ Core insulation – XLPE
- 3 ■ Filler – PP filler
- 4 ■ Shield – Foil shield (B)
- 5 ■ Bedding – PVC bedding
- 6 ■ Armour – Galvanised steel wire armour (SWA)
- 7 ■ 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 three core XLPE/SWA/PVC 3.6/6 kV Three core Copper 25 mm <sup>2</sup> PVC	3.6/6 kV	25 mm <sup>2</sup>	0.727 Ω/km	16 mm <sup>2</sup> copper wire screen	55 mm
IEC 60502-2 three core XLPE/SWA/PVC 3.6/6 kV Three core Copper 50 mm <sup>2</sup> PVC	3.6/6 kV	50 mm <sup>2</sup>	0.387 Ω/km	16 mm <sup>2</sup> copper wire screen	58 mm
IEC 60502-2 three core XLPE/SWA/PVC 3.6/6 kV Three core Copper 95 mm <sup>2</sup> PVC	3.6/6 kV	95 mm <sup>2</sup>	0.193 Ω/km	16 mm <sup>2</sup> copper wire screen	63 mm
IEC 60502-2 three core XLPE/SWA/PVC 3.6/6 kV Three core Copper 150 mm <sup>2</sup> PVC	3.6/6 kV	150 mm <sup>2</sup>	0.124 Ω/km	16 mm <sup>2</sup> copper wire screen	67 mm
IEC 60502-2 three core XLPE/SWA/PVC 3.6/6 kV Three	3.6/6 kV	240 mm <sup>2</sup>	0.0754 Ω/km	25 mm <sup>2</sup> copper wire screen	72 mm

Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
core Copper 240 mm <sup>2</sup> PVC					
IEC 60502-2 three core XLPE/SWA/PVC 6/10 kV Three core Copper 35 mm <sup>2</sup> PVC	6/10 kV	35 mm <sup>2</sup>	0.524 Ω/km	16 mm <sup>2</sup> copper wire screen	56 mm
IEC 60502-2 three core XLPE/SWA/PVC 6/10 kV Three core Copper 70 mm <sup>2</sup> PVC	6/10 kV	70 mm <sup>2</sup>	0.268 Ω/km	16 mm <sup>2</sup> copper wire screen	60 mm
IEC 60502-2 three core XLPE/SWA/PVC 6/10 kV Three core Copper 120 mm <sup>2</sup> PVC	6/10 kV	120 mm <sup>2</sup>	0.153 Ω/km	16 mm <sup>2</sup> copper wire screen	65 mm
IEC 60502-2 three core XLPE/SWA/PVC 6/10 kV Three core Copper 185 mm <sup>2</sup> PVC	6/10 kV	185 mm <sup>2</sup>	0.0991 Ω/km	25 mm <sup>2</sup> copper wire screen	69 mm
IEC 60502-2 three core XLPE/SWA/PVC 6/10 kV Three core Copper 300 mm <sup>2</sup> PVC	6/10 kV	300 mm <sup>2</sup>	0.0601 Ω/km	25 mm <sup>2</sup> copper wire screen	75 mm
IEC 60502-2 three core XLPE/SWA/PVC 8.7/15 kV Three core Copper 50 mm <sup>2</sup> PVC	8.7/15 kV	50 mm <sup>2</sup>	0.387 Ω/km	16 mm <sup>2</sup> copper wire screen	58 mm
IEC 60502-2 three core XLPE/SWA/PVC 8.7/15 kV Three core Copper 95 mm <sup>2</sup> PVC	8.7/15 kV	95 mm <sup>2</sup>	0.193 Ω/km	16 mm <sup>2</sup> copper wire screen	63 mm
IEC 60502-2 three core XLPE/SWA/PVC 8.7/15 kV Three core Copper 150 mm <sup>2</sup> PVC	8.7/15 kV	150 mm <sup>2</sup>	0.124 Ω/km	16 mm <sup>2</sup> copper wire screen	67 mm
IEC 60502-2 three core XLPE/SWA/PVC 8.7/15 kV Three core Copper 240 mm <sup>2</sup> PVC	8.7/15 kV	240 mm <sup>2</sup>	0.0754 Ω/km	25 mm <sup>2</sup> copper wire screen	72 mm
IEC 60502-2 three core XLPE/SWA/PVC 8.7/15 kV Three core Copper 400 mm <sup>2</sup> PVC	8.7/15 kV	400 mm <sup>2</sup>	0.0470 Ω/km	35 mm <sup>2</sup> copper wire screen	80 mm
IEC 60502-2 three core XLPE/SWA/PVC 12/20 kV Three core Copper 50 mm <sup>2</sup> PVC	12/20 kV	50 mm <sup>2</sup>	0.387 Ω/km	16 mm <sup>2</sup> copper wire screen	61 mm
IEC 60502-2 three core XLPE/SWA/PVC 12/20 kV Three core Copper 95 mm <sup>2</sup> PVC	12/20 kV	95 mm <sup>2</sup>	0.193 Ω/km	16 mm <sup>2</sup> copper wire screen	66 mm
IEC 60502-2 three core XLPE/SWA/PVC 12/20 kV Three core Copper 150 mm <sup>2</sup> PVC	12/20 kV	150 mm <sup>2</sup>	0.124 Ω/km	16 mm <sup>2</sup> copper wire screen	70 mm
IEC 60502-2 three core XLPE/SWA/PVC 12/20 kV Three core Copper 240 mm <sup>2</sup> PVC	12/20 kV	240 mm <sup>2</sup>	0.0754 Ω/km	25 mm <sup>2</sup> copper wire screen	75 mm
IEC 60502-2 three core XLPE/SWA/PVC 12/20 kV Three core Copper 400 mm <sup>2</sup> PVC	12/20 kV	400 mm <sup>2</sup>	0.0470 Ω/km	35 mm <sup>2</sup> copper wire screen	83 mm

Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
IEC 60502-2 three core XLPE/SWA/PVC 18/30 kV Three core Copper 70 mm <sup>2</sup> PVC	18/30 kV	70 mm <sup>2</sup>	0.268 Ω/km	16 mm <sup>2</sup> copper wire screen	66 mm
IEC 60502-2 three core XLPE/SWA/PVC 18/30 kV Three core Copper 120 mm <sup>2</sup> PVC	18/30 kV	120 mm <sup>2</sup>	0.153 Ω/km	16 mm <sup>2</sup> copper wire screen	71 mm
IEC 60502-2 three core XLPE/SWA/PVC 18/30 kV Three core Copper 185 mm <sup>2</sup> PVC	18/30 kV	185 mm <sup>2</sup>	0.0991 Ω/km	25 mm <sup>2</sup> copper wire screen	75 mm
IEC 60502-2 three core XLPE/SWA/PVC 18/30 kV Three core Copper 300 mm <sup>2</sup> PVC	18/30 kV	300 mm <sup>2</sup>	0.0601 Ω/km	25 mm <sup>2</sup> copper wire screen	81 mm
IEC 60502-2 three core XLPE/SWA/PVC 18/30 kV Three core Copper 400 mm <sup>2</sup> PVC	18/30 kV	400 mm <sup>2</sup>	0.0470 Ω/km	35 mm <sup>2</sup> copper wire screen	86 mm
Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
IEC 60502-2 three core XLPE/SWA/PVC 3.6/6 kV Three core Aluminium 25 mm <sup>2</sup> PVC	3.6/6 kV	25 mm <sup>2</sup>	1.20 Ω/km	16 mm <sup>2</sup> copper wire screen	55 mm
IEC 60502-2 three core XLPE/SWA/PVC 3.6/6 kV Three core Aluminium 50 mm <sup>2</sup> PVC	3.6/6 kV	50 mm <sup>2</sup>	0.641 Ω/km	16 mm <sup>2</sup> copper wire screen	58 mm
IEC 60502-2 three core XLPE/SWA/PVC 3.6/6 kV Three core Aluminium 95 mm <sup>2</sup> PVC	3.6/6 kV	95 mm <sup>2</sup>	0.320 Ω/km	16 mm <sup>2</sup> copper wire screen	63 mm
IEC 60502-2 three core XLPE/SWA/PVC 3.6/6 kV Three core Aluminium 150 mm <sup>2</sup> PVC	3.6/6 kV	150 mm <sup>2</sup>	0.206 Ω/km	16 mm <sup>2</sup> copper wire screen	67 mm
IEC 60502-2 three core XLPE/SWA/PVC 3.6/6 kV Three core Aluminium 240 mm <sup>2</sup> PVC	3.6/6 kV	240 mm <sup>2</sup>	0.125 Ω/km	25 mm <sup>2</sup> copper wire screen	72 mm
IEC 60502-2 three core XLPE/SWA/PVC 6/10 kV Three core Aluminium 35 mm <sup>2</sup> PVC	6/10 kV	35 mm <sup>2</sup>	0.868 Ω/km	16 mm <sup>2</sup> copper wire screen	56 mm
IEC 60502-2 three core XLPE/SWA/PVC 6/10 kV Three core Aluminium 70 mm <sup>2</sup> PVC	6/10 kV	70 mm <sup>2</sup>	0.443 Ω/km	16 mm <sup>2</sup> copper wire screen	60 mm
IEC 60502-2 three core XLPE/SWA/PVC 6/10 kV Three core Aluminium 120 mm <sup>2</sup> PVC	6/10 kV	120 mm <sup>2</sup>	0.253 Ω/km	16 mm <sup>2</sup> copper wire screen	65 mm
IEC 60502-2 three core XLPE/SWA/PVC 6/10 kV Three core Aluminium 185 mm <sup>2</sup> PVC	6/10 kV	185 mm <sup>2</sup>	0.164 Ω/km	25 mm <sup>2</sup> copper wire screen	69 mm
IEC 60502-2 three core XLPE/SWA/PVC 6/10 kV Three core	6/10 kV	300 mm <sup>2</sup>	0.100 Ω/km	25 mm <sup>2</sup> copper wire screen	75 mm

Cable reference	Voltage class	Cross-section	Max DC resistance at 20 °C	Metallic screen	OD guide
Aluminium 300 mm <sup>2</sup> PVC					
IEC 60502-2 three core XLPE/SWA/PVC 8.7/15 kV Three core Aluminium 50 mm <sup>2</sup> PVC	8.7/15 kV	50 mm <sup>2</sup>	0.641 Ω/km	16 mm <sup>2</sup> copper wire screen	58 mm
IEC 60502-2 three core XLPE/SWA/PVC 8.7/15 kV Three core Aluminium 95 mm <sup>2</sup> PVC	8.7/15 kV	95 mm <sup>2</sup>	0.320 Ω/km	16 mm <sup>2</sup> copper wire screen	63 mm
IEC 60502-2 three core XLPE/SWA/PVC 8.7/15 kV Three core Aluminium 150 mm <sup>2</sup> PVC	8.7/15 kV	150 mm <sup>2</sup>	0.206 Ω/km	16 mm <sup>2</sup> copper wire screen	67 mm
IEC 60502-2 three core XLPE/SWA/PVC 8.7/15 kV Three core Aluminium 240 mm <sup>2</sup> PVC	8.7/15 kV	240 mm <sup>2</sup>	0.125 Ω/km	25 mm <sup>2</sup> copper wire screen	72 mm
IEC 60502-2 three core XLPE/SWA/PVC 8.7/15 kV Three core Aluminium 400 mm <sup>2</sup> PVC	8.7/15 kV	400 mm <sup>2</sup>	0.0778 Ω/km	35 mm <sup>2</sup> copper wire screen	80 mm
IEC 60502-2 three core XLPE/SWA/PVC 12/20 kV Three core Aluminium 50 mm <sup>2</sup> PVC	12/20 kV	50 mm <sup>2</sup>	0.641 Ω/km	16 mm <sup>2</sup> copper wire screen	61 mm
IEC 60502-2 three core XLPE/SWA/PVC 12/20 kV Three core Aluminium 95 mm <sup>2</sup> PVC	12/20 kV	95 mm <sup>2</sup>	0.320 Ω/km	16 mm <sup>2</sup> copper wire screen	66 mm
IEC 60502-2 three core XLPE/SWA/PVC 12/20 kV Three core Aluminium 150 mm <sup>2</sup> PVC	12/20 kV	150 mm <sup>2</sup>	0.206 Ω/km	16 mm <sup>2</sup> copper wire screen	70 mm
IEC 60502-2 three core XLPE/SWA/PVC 12/20 kV Three core Aluminium 240 mm <sup>2</sup> PVC	12/20 kV	240 mm <sup>2</sup>	0.125 Ω/km	25 mm <sup>2</sup> copper wire screen	75 mm
IEC 60502-2 three core XLPE/SWA/PVC 12/20 kV Three core Aluminium 400 mm <sup>2</sup> PVC	12/20 kV	400 mm <sup>2</sup>	0.0778 Ω/km	35 mm <sup>2</sup> copper wire screen	83 mm
IEC 60502-2 three core XLPE/SWA/PVC 18/30 kV Three core Aluminium 70 mm <sup>2</sup> PVC	18/30 kV	70 mm <sup>2</sup>	0.443 Ω/km	16 mm <sup>2</sup> copper wire screen	66 mm
IEC 60502-2 three core XLPE/SWA/PVC 18/30 kV Three core Aluminium 120 mm <sup>2</sup> PVC	18/30 kV	120 mm <sup>2</sup>	0.253 Ω/km	16 mm <sup>2</sup> copper wire screen	71 mm
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