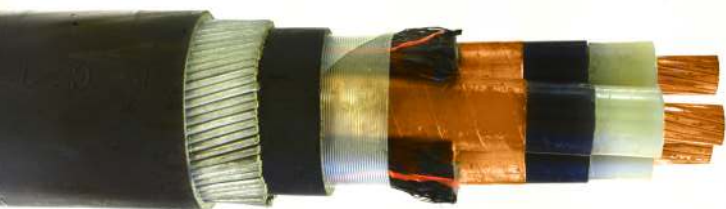


# BS6622/BS7835 Three Core Armoured 11kV XLPE Stranded Copper Conductors

STANDARD MV POWER CABLES



## CABLE DESCRIPTION

### Conductor

Compact circular stranded copper conductor complying with BS EN 60228 Class 2.

### Conductor Screen

Extruded semi-conducting compound bonded to the insulation and applied in the same operation as the insulation.

### Insulation

Extruded cross-linked polyethylene (XLPE) suitable for operation at a conductor temperature of 90°C.

### Insulation Screen

Extruded semi-conducting compound applied in the same operation as the insulation. Cold strippable screens are supplied as a standard but fully bonded screens may be provided if specified.

### Metallic Screen

Copper tapes. Complete cover.

### Laying up

Three cores laid up with polypropylene string fillers to form a compact circular cable.

### Tape Binders

### Sheath

Extruded black polyvinyl chloride (PVC) or Low Smoke Zero Halogen (LSOH) compound is supplied as standard. Alternative materials may be provided if specified.

### Armouring

Single layer of galvanised circular steel wires.

### Oversheath

Extruded black polyvinyl chloride (PVC) or Low Smoke Zero Halogen (LSOH) compound is supplied as standard. Alternative materials may be provided if specified e.g medium density polyethylene (MDPE).

## Constructional Data

Cross-sectional area mm <sup>2</sup>	Minimum average thickness of insulation mm	Nominal thickness of PVC/LSOH bedding mm	Nominal diameter of armoured wires mm	Nominal thickness of PVC/LSOH oversheath mm	Approx. overall diameter of cable mm
70	3.4	1.4	2.5	2.7	54.5
95	3.4	1.5	2.5	2.9	58.5
120	3.4	1.6	2.5	3.0	62.0
150	3.4	1.6	2.5	3.1	65.5
185	3.4	1.7	2.5	3.2	69.5
240	3.4	1.8	3.15	3.4	76.0
300	3.4	1.9	3.15	3.6	81.5
400	3.4	2.0	3.15	3.8	89.0

## Installation Data

Cross-sectional area mm <sup>2</sup>	Approximate cable weight kg/m	Nominal drum length m	Nominal internal diameter of twin wall ducts mm
70	5.6	500	100
95	6.7	500	100
120	7.7	500	100
150	8.7	450	125
185	10.1	450	125
240	13.1	450	125
300	15.4	350	125
400	18.6	300	125

## Electrical Data

Cross-sectional area mm <sup>2</sup>	Maximum DC resistance of conductor at 20°C μOhms/m	Maximum AC resistance of conductor at 90°C μOhms/m
70	268	342
95	193	246
120	153	195
150	124	158
185	99.1	126
240	75.4	97
300	60.1	77
400	47.0	60

## Ratings Data

Cross-sectional area mm <sup>2</sup>	Current Ratings:			Short circuit ratings	
	Laid direct in ground Amps	Drawn into twin wall ducts Amps	Laid in air Amps	One second short circuit rating of conductor kA	One second short circuit rating of armour kA
70	255	210	280	10.0	10.8
95	300	250	340	13.6	11.6
120	340	280	390	17.2	12.5
150	385	320	440	21.5	13.1
185	430	360	505	26.5	14.0
240	490	410	575	34.3	18.3
300	550	460	655	42.9	19.7
400	625	525	755	57.2	21.7

### Current Ratings Conditions:

Ground temperature  
Ambient temperature(air)  
Depth of burial  
Thermal resistance of soil



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