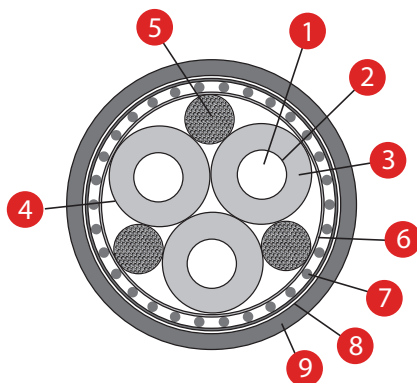


THREE CORE UNARMoured ALUMINIUM CONDUCTORS

Medium voltage DNO aluminium power cable approved to Scottish & Southern Electricity (SSE) specification and manufactured by G81 suppliers for connections from existing grid to new sub-main developments.



- 1 Aluminum solid conductor
- 2 Semiconducting screen
- 3 XLPE Insulation
- 4 Semiconducting screen
- 5 Filler (PE tubes)
- 6 Semiconducting wrapping tapes
- 7 Collective metallic screen consisted of copper wires plus copper tape
- 8 Synthetic tape
- 9 MDPE sheath



Dimensions						
No. of Cores	Nominal Cross Sectional Area mm ²	Nominal Area of Metallic Screen mm ²	Nominal Overall Diameter of Cable mm ²	Nominal Weight of Cable kg	Min. Bending Radius mm	Max. Pulling Tension N
3	150	60	61	380	1160	13500
3	240	60	70	4380	1340	21600
3	300	600	75	4990	1440	27000

Electrical Characteristics						
Nominal Cross Sectional Area mm ²	Max. DC Resistance of Conductor at 20°C ohms/km	Max. AC Resistance of Conductor at 20°C ohms/km	Reactance at 50HZ ohms/km	Capacitance µf/km	1 Second Short Circuit Rating of Conductor kA	1 Second Short Circuit Rating of Metallic Screen kA
150	0.206	0.265	0.091	0.33	14.2	9.3
240	0.125	0.161	0.085	0.41	22.7	9.3
300	0.100	.130	0.084	0.44	28.3	9.3

Current Carrying Capacity			
Nominal Cross Sectional Area mm ²	Direct Buried Amps	In Ducts Amps	In Air Amps
150	295	255	335
240	390	340	450
300	435	380	510