

4 Outdoor Cables - Aluminium Conductor

4.4 Single core armoured circular conductor - XLPE insulated

Application : For outdoor installations where mechanical protection is required. These cables can be installed in air, on a perforated cable tray, direct in ground or in ducting in ground.

Engineering Specifications

Type	: Al/XLPE/AWA/PVC
Standard	: BS 5467
Nominal Voltage	: 600/1000V
Insulation	: 90 °C rated XLPE compound
Sheathing	: PVC compound
Packing	: The cables are delivered on non-returnable wooden drums as per customer requirements
Conductor	: Stranded aluminium wires



Technical Information

KELANI Cable Code	Conductor		Nominal Insulation thickness	Nominal Bedding thickness	Nominal Al wire diameter	Nominal Sheathing thickness	Max. Overall Diameter	Approx. Weight	Max d.c. Resistance at 20°C	Armour wire area	Packing
	Nominal Cross sectional area	No. & Dia. of wires									1000 m
	mm ²	x/mm	mm	mm	mm	mm	mm	kg/km	Ω/km	mm ²	Drum Type
1Y135178ZZ	50	19/1.78	1.0	0.8	0.9	1.5	17.5	405	0.641	24	Kel 05
1Y137214ZZ	70	19/2.14	1.1	0.8	1.25	1.5	20.2	553	0.443	38	Kel 05
1Y138252ZZ	95	19/2.52	1.1	0.8	1.25	1.6	22.3	690	0.320	42	Kel 05
1Y139203ZZ	120	37/2.03	1.2	0.8	1.25	1.6	24.2	844	0.253	46	Kel 08
1Y141225ZZ	150	37/2.25	1.4	1.0	1.6	1.7	27.4	1043	0.206	68	Kel 10
1Y142252ZZ	185	37/2.52	1.6	1.0	1.6	1.8	30.0	1249	0.164	76	Kel 10
1Y143225ZZ	240	61/2.25	1.7	1.0	1.6	1.8	32.8	1516	0.125	84	Kel 12
1Y144252ZZ	300	61/2.52	1.8	1.0	1.6	1.9	35.6	1809	0.100	92	Kel 14

Refer Table L1 & L2 for Current carrying capacity and Voltage drop.