

## 4 Outdoor Cables - Aluminium Conductor

### 4.2 Multi core unarmoured circular conductor - XLPE insulated

Application : For outdoor installations in air, conduit, duct or tray. They are normally used for power distribution in urban networks, in industrial plants, in thermopower and hydropower stations.

#### Engineering Specifications

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



#### Technical Information

KELANI Cable Code	Conductor		Nominal Insulation Thickness	Nominal Sheathing Thickness	Max. Overall Diameter	Approx. Weight	Max d.c. Resistance at 20°C	Packing	
	Nominal Cross sectional area	No. & Dia. of wires						Drum Type	Cable Length
	mm <sup>2</sup>	x/mm	mm	mm	mm	kg/km	Ω/km		m
Two core cables									
1L231170ZZ	16	7/1.70	0.7	1.8	17.2	219	1.91	Kel 05	1000
1L232214ZZ	25	7/2.14	0.9	1.8	20.8	361	1.20	Kel 05	1000
1L233252ZZ	35	7/2.52	0.9	1.8	23.2	542	0.868	Kel 06	1000
Three core cables									
1L331170ZZ	16	7/1.70	0.7	1.8	18.3	323	1.91	Kel 05	1000
1L332214ZZ	25	7/2.14	0.9	1.8	22.1	471	1.20	Kel 05	1000
1L333252ZZ	35	7/2.52	0.9	1.8	24.8	585	0.868	Kel 08	1000
Four core cables									
1L431170ZZ	16	7/1.70	0.7	1.8	20.0	395	1.91	Kel 05	1000
1L432214ZZ	25	7/2.14	0.9	1.8	24.3	581	1.20	Kel 08	1000
1L433252ZZ	35	7/2.52	0.9	1.8	27.3	937	0.868	Kel 10	1000

Refer Table I in for current carrying capacity and voltage drop.