

4 Outdoor Cables - Aluminium Conductor

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



Technical Information

KELANI Cable Code	Conductor		Nominal Insulation thickness	Nominal Bedding thickness	Nominal Steel wire diameter	Nominal Sheathing thickness	Max. Overall Diameter	Approx. Weight	Max d.c. Resistance at 20°C	Armour wire area	Packing 1000 m
	Nominal Cross sectional area	No. & Dia. of wires									500 m
	mm ²	x/mm	mm	mm	mm	mm	mm	kg/km	Ω/km	mm ²	Drum Type
Two core cables											
1Y231170ZZ	16	7/1.70	0.7	0.8	1.25	1.5	20.4	694	1.91	42	Kel 05
1Y232214ZZ	25	7/2.14	0.9	0.8	1.25	1.6	24.1	901	1.20	42	Kel 08
1Y233252ZZ	35	7/2.52	0.9	1.0	1.6	1.7	27.7	1248	0.868	60	Kel 10
Three core cables											
1Y331170ZZ	16	7/1.70	0.7	0.8	1.25	1.6	21.6	802	1.91	45	Kel 05
1Y332214ZZ	25	7/2.14	0.9	1.0	1.6	1.7	26.7	1344	1.20	62	Kel 10
1Y333252ZZ	35	7/2.52	0.9	1.0	1.6	1.8	29.4	1571	0.868	68	Kel 10
Four core cables											
1Y431170ZZ	16	7/1.70	0.7	0.8	1.25	1.6	23.4	921	1.91	50	Kel 06
1Y432214ZZ	25	7/2.14	0.9	1.0	1.6	1.7	28.9	1444	1.20	70	Kel 10
1Y433252ZZ	35	7/2.52	0.9	1.0	1.6	1.8	31.9	1903	0.868	78	Kel 12

Refer Table J for current carrying capacity and voltage drop.