

3 Outdoor Cables - Copper Conductor

3.7 Single core armoured circular conductor - XLPE insulated.

Application : For outdoor installation 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	: Cu/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 requirement
Conductor	: Soft annealed stranded copper wires



Technical Information

KELANI Cable Code	Conductor		Nominal Insulation thickness	Nominal Bedding thickness	Nominal Al Armour Wire Diameter	Nominal Sheathing thickness	Max. Overall Diameter	Approx. Weight	Max d.c. Resistance at 20°C	Armour wire area	Packing 1000 m 500 m
	Nominal Cross sectional area	No. & Dia. of wires									Drum Type
	mm ²	x/mm	mm	mm	mm	mm	mm	kg/km	Ω/km	mm ²	
1S135178ZZ	50	19/1.78	1.0	0.8	0.9	1.5	17.5	703	0.387	26	Kel 05
1S137214ZZ	70	19/2.14	1.1	0.8	1.25	1.5	20.2	984	0.268	42	Kel 05
1S138252ZZ	95	19/2.52	1.1	0.8	1.25	1.6	22.3	1287	0.193	47	Kel 05
1S139203ZZ	120	37/2.03	1.2	0.8	1.25	1.6	24.2	1569	0.153	52	Kel 08
1S141225ZZ	150	37/2.25	1.4	1.0	1.6	1.7	27.4	1971	0.124	76	Kel 10
1S142252ZZ	185	37/2.52	1.6	1.0	1.6	1.8	30.0	2413	0.0991	84	Kel 10
1S143225ZZ	240	61/2.25	1.7	1.0	1.6	1.8	32.8	3047	0.0754	94	Kel 12
1S144252ZZ	300	61/2.52	1.8	1.0	1.6	1.9	35.6	3728	0.0601	104	Kel 14
1S145285ZZ	400	61/2.85	2.0	1.2	2.0	2.0	40.5	4778	0.0470	147	Kel 10
1S146320ZZ	500	61/3.20	2.2	1.2	2.0	2.1	44.2	5894	0.0366	163	Kel 12
1S147252ZZ	630	127/2.52	2.4	1.2	2.0	2.2	48.8	7402	0.0283	182	Kel 12
1S148285ZZ	800	127/2.85	2.6	1.4	2.5	2.4	55.4	9507	0.0221	260	Kel 15
1S149320ZZ	1000	127/3.20	2.8	1.4	2.5	2.5	60.6	11776	0.0176	284	Kel 15

Refer Table D1 & D2 for current carrying capacity and voltage drop.