

3 Outdoor Cables - Copper Conductor

3.3 Multi core unarmoured circular conductor - PVC insulated cont...

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

Type	: Cu /PVC/ PVC
Standard	: IEC 60502
Nominal Voltage	: 600/1000 V
Insulation	: 70 °C rated PVC 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 Sheathing Thickness	Nominal 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 ²	x/mm	mm	mm	mm	kg/km	Ω /km		m
Four core cables									
1P419053ZZ	1.5	7/0.53	0.8	1.8	11.4	240	12.1	Kel 02	1000
1P422067ZZ	2.5	7/0.67	0.8	1.8	12.4	315	7.41	Kel 03	1000
1P424085ZZ	4	7/0.85	1.0	1.8	14.8	440	4.61	Kel 05	1000
1P426104ZZ	6	7/1.04	1.0	1.8	16.0	560	3.08	Kel 05	1000
1P429135ZZ	10	7/1.35	1.0	1.8	18.6	780	1.83	Kel 05	1000
1P431170ZZ	16	7/1.70	1.0	1.8	21.6	1080	1.15	Kel 05	1000
1P432214ZZ	25	7/2.14	1.2	1.8	25.9	1560	0.727	Kel 10	1000
1P433252ZZ	35	7/2.52	1.2	1.8	28.9	2030	0.524	Kel 10	1000
Five core cables									
1P519053ZZ	1.5	7/0.53	0.8	1.8	13.4	290	12.1	Kel 03	1000
1P522067ZZ	2.5	7/0.67	0.8	1.8	14.4	360	7.41	Kel 04	1000
1P524085ZZ	4	7/0.85	1.0	1.8	17.4	530	4.61	Kel 05	1000
1P526104ZZ	6	7/1.04	1.0	1.8	18.9	670	3.08	Kel 05	1000
1P529135ZZ	10	7/1.35	1.0	1.8	22.4	970	1.83	Kel 04	1000
1P531170ZZ	16	7/1.70	1.0	1.8	25.0	1340	1.15	Kel 08	1000
1P532214ZZ	25	7/2.14	1.2	1.8	30.0	1990	0.727	Kel 10	1000
1P533252ZZ	35	7/2.52	1.2	1.8	33.6	2630	0.524	Kel 12	1000

Refer Table E for current carrying capacity and voltage drop.