

3 Outdoor Cables - Copper Conductor

3.8 Multi core armoured circular conductor - PVC 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 /PVC/SWA/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 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
	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
Three core cables											
1R219053ZZ	1.5	7/0.53	0.8	1.0	0.9	1.8	13.78	340	12.1	15	Kel 01
1R222067ZZ	2.5	7/0.67	0.8	1.0	0.9	1.8	14.62	387	7.41	17	Kel 02
1R224085ZZ	4	7/0.85	1.0	1.0	1.25	1.8	17.20	583	4.61	20	Kel 03
1R226104ZZ	6	7/1.04	1.0	1.0	1.25	1.8	18.34	660	3.08	22	Kel 05
1R229135ZZ	10	7/1.35	1.0	1.0	1.25	1.8	20.20	820	1.83	40	Kel 05
1R231170ZZ	16	7/1.70	1.0	1.0	1.6	1.8	23.00	1148	1.15	46	Kel 05
1R232214ZZ	25	7/2.14	1.2	1.0	1.6	1.8	26.44	1510	0.727	60	Kel 10
1R233252ZZ	35	7/2.52	1.2	1.0	1.6	1.8	28.72	1820	0.524	66	Kel 10
Three core cables											
1R319053ZZ	1.5	7/0.53	0.8	1.0	0.9	1.8	14.29	381	12.1	16	Kel 01
1R322067ZZ	2.5	7/0.67	0.8	1.0	0.9	1.8	15.20	439	7.41	19	Kel 03
1R324085ZZ	4	7/0.85	1.0	1.0	1.25	1.8	17.93	657	4.61	22	Kel 04
1R326104ZZ	6	7/1.04	1.0	1.0	1.25	1.8	19.16	767	3.08	34	Kel 05
1R329135ZZ	10	7/1.35	1.0	1.0	1.6	1.8	21.86	1098	1.83	42	Kel 05
1R331170ZZ	16	7/1.70	1.0	1.0	1.6	1.8	24.14	1391	1.15	50	Kel 06
1R332214ZZ	25	7/2.14	1.2	1.0	1.6	1.8	27.31	1861	0.727	66	Kel 10
1R333252ZZ	35	7/2.52	1.2	1.0	1.6	1.8	30.32	2272	0.524	74	Kel 12

Note - Refer Table G in for Current carrying capacity and Voltage drop.

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	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	
Four core cables											
1R419053ZZ	1.5	7/0.53	0.8	1.0	0.9	1.8	15.12	430	12.1	17	Kel 02
1R422067ZZ	2.5	7/0.67	0.8	1.0	1.25	1.8	16.84	596	7.41	20	Kel 03
1R424085ZZ	4	7/0.85	1.0	1.0	1.25	1.8	19.11	756	4.61	34	Kel 05
1R426104ZZ	6	7/1.04	1.0	1.0	1.25	1.8	20.50	899	3.08	38	Kel 05
1R429135ZZ	10	7/1.35	1.0	1.0	1.6	1.8	23.44	1286	1.83	46	Kel 06
1R431170ZZ	16	7/1.70	1.0	1.0	1.6	1.8	25.98	1644	1.15	72	Kel 09
1R432214ZZ	25	7/2.14	1.2	1.0	1.6	1.8	30.15	2238	0.727	76	Kel 12
1R433252ZZ	35	7/2.52	1.2	1.0	1.6	1.9	32.90	2770	0.524	84	Kel 12
Five core cables											
1R519053ZZ	1.5	7/0.53	0.8	1.0	1.25	1.8	16.71	567	12.1	19	Kel 03
1R522067ZZ	2.5	7/0.67	0.8	1.0	1.25	1.8	17.85	663	7.41	22	Kel 05
1R524085ZZ	4	7/0.85	1.0	1.0	1.25	1.8	20.38	866	4.61	38	Kel 05
1R526104ZZ	6	7/1.04	1.0	1.0	1.6	1.8	22.62	1162	3.08	41	Kel 05
1R529135ZZ	10	7/1.35	1.0	1.0	1.6	1.8	25.14	1492	1.83	68	Kel 09
1R531170ZZ	16	7/1.70	1.0	1.0	1.6	1.8	27.97	1915	1.15	78	Kel 10
1R532214ZZ	25	7/2.14	1.2	1.2	2.0	1.9	34.01	2935	0.727	94	Kel 12
1R533252ZZ	35	7/2.52	1.2	1.2	2.0	2.0	37.29	3621	0.524	106	Kel 15

Note - Refer Table G for current carrying capacity and voltage drop.