3 Outdoor Cables - Copper Conductor

3.10 Multicore 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/SWA/PVC
Standard : BS 5467
Nominal Voltage : 600/1000 V
Insulation : 90 ºC 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 Steel 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 Drum Type
	Nominal Cross sectional area	No. & Dia. of wires									
	mm²	x/mm	mm	mm	mm	mm	mm	kg/km	Ω/km	mm²	
Two core cables											
1S231170ZZ	16	7/1.70	0.7	0.8	1.25	1.5	20.4	895	1.150	42	Kel 05
1S232214ZZ	25	7/2.14	0.9	0.8	1.25	1.6	24.1	1220	0.727	42	Kel 08
1S233252ZZ	35	7/2.52	0.9	1.0	1.6	1.7	27.7	1690	0.524	60	Kel 10
Three core cables											
1S331170ZZ	16	7/1.70	0.7	0.8	1.25	1.6	21.6	1104	1.150	45	Kel 05
1S332214ZZ	25	7/2.14	0.9	1.0	1.6	1.7	26.7	1718	0.727	62	Kel 10
1S333252ZZ	35	7/2.52	0.9	1.0	1.6	1.8	29.4	2123	0.524	68	Kel 10
Four core cables											
1S431170ZZ	16	7/1.70	0.7	0.8	1.25	1.6	23.4	1323	1.150	50	Kel 06
1S432214ZZ	25	7/2.14	0.9	1.0	1.6	1.7	28.9	2080	0.727	70	Kel 10
1S433252ZZ	35	7/2.52	0.9	1.0	1.6	1.8	31.9	2586	0.524	78	Kel 12
Five core cables											
1S531170ZZ	16	7/1.70	0.7	1.0	1.6	1.7	26.6	1750	1.150	72	Kel 10
1S532214ZZ	25	7/2.14	0.9	1.0	1.6	1.8	31.5	2442	0.727	88	Kel 12
1S533252ZZ	35	7/2.52	0.9	1.0	1.6	1.9	34.8	3067	0.524	100	Kel 12
1S535178ZZ	50	19/1.78	1.0	1.2	2.0	2.0	40.4	4236	0.387	144	Kel 10
1S537214ZZ	70	19/2.14	1.1	1.2	2.0	2.2	46.3	5600	0.268	166	Kel 12

Refer Table H for current carrying capacity and voltage drop.