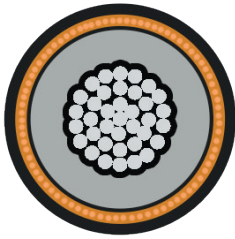


36KV SINGLE CORE MDPE RENEWABLE ENERGY CABLE



APPLICATION

Single core high voltage cable for Windfarms, Solar parks and other renewable energy applications. Suitable for power networks, underground, outdoors and installation in cable ducting. Conforms to BS 7870-4.10

CABLE STANDARDS

BS 7870-4.10
BS EN 60228
Halogen Free to IEC/EN 60754-1
UV Resistant to ISO 4892
Water Resistant to AD7

CONSTRUCTION

Conductor: Stranded Aluminium Conductors
Semi Conductor: Bonded Extruded Semi Conductor
Insulation: Cross Linked Polyethylene (XLPE)
Semi Conductor: Strippable Extruded Semi Conductor
Tape: Semi-Conductive Water Blocking Tape
Metallic Screen: Copper Wire Screen and open helix tape
Water Blocking: Non Conductive Water Blocking Tape
Sheath: Zero Halogen Medium Density Polyethylene (MDPE)
Sheath Colour: **Black**

CHARACTERISTICS

Voltage Rating: U_0/U 19KV / 33KV
Maximum Voltage: 36KV
Test Voltage: 75KV
Partial Discharge: Level with voltage $2U_0$
KV max. 5pC
Temperature Limits:
Maximum perm conductor temp 90°C
Maximum perm operating temp 130°C
Short Circuit temp 250°C
Minimum Bending Radius: 20 X Overall Diameter

For more information contact:
01642 241 133



33KV SINGLE CORE MDPE RENEWABLE ENERGY CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE	STRANDING (MM)	NUMBER OF CORES	NOMINAL OVERALL DIAMETER	MINIMUM BENDING RADIUS	APPROX WEIGHT (KG/KM)
33KV1X70AL	70	19/2.1	1	37.5	750	1344
33KV1X95AL	95	19/2.47	1	38.1	765	1415
33KV1X120AL	120	35/2.04	1	39.0	780	1522
33KV1X150AL	150	35/2.27	1	41.3	826	1720
33KV1X185AL	185	35/2.54	1	43.8	876	1895
33KV1X240AL	240	35/2.91	1	46.4	928	2143
33KV1X300AL	300	35/3.25	1	49.0	980	2415
33KV1X400AL	400	56/2.91	1	51.7	1034	2781
33KV1X500AL	500	56/3.3	1	54.3	1098	3146
33KV1X630AL	630	56/3.75	1	58.9	1192	3675
33KV1X800AL	800	56/4.21	1	66.0	1320	4720

36KV RENEWABLE ENERGY CABLE - ELECTRICAL CHARACTERISTICS

CONDUCTOR SIZE (MM ²)	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C DC	MAXIMUM RESISTANCE OF CONDUCTOR AT 90°C AC	CAPACITANCE	CHARGING CURRENT	DIELECTRIC LOSSES	REACTANCE AT 50 HZ	CONDUCTOR S.C.C FOR 1 SECOND	SCREEN S.C.C FOR 1 SECOND	CONTINUOUS CURRENT RATING	
	Ω/Km	Ω/KM	mF/Km	(A/KM)	(W/Km)	Ω/KM	(KA)	(KA)	IN GROUND AMPS	IN AIR AMPS
70	0.433	0.569	0.157	0.935	71.04	0.145	6.559	4.1	232	239
95	0.32	0.411	0.175	1.044	79.37	0.137	0.9015	3.8	268	288
120	0.253	0.325	0.188	1.124	85.38	0.133	11.244	3.7	314	348
150	0.206	0.265	0.209	1.247	94.96	0.129	14.055	3.8	318	369
185	0.164	0.211	0.217	1.297	98.58	0.123	17.334	3.8	321	373
240	0.125	0.1611	0.233	1.39	105.61	0.119	22.68	4.5	447	538
300	0.100	0.1293	0.254	1.517	115.33	0.114	28.35	4.5	503	619
400	0.0778	0.1013	0.276	1.650	125.40	0.110	37.79	4.5	578	719
500	0.605	0.0796	0.303	1.808	137.45	0.106	42.24	4.5	654	843
630	0.469	0.0629	0.343	2.045	155.46	0.103	59.52	4.5	759	979
800	0.0367	0.049	0.385	2.297	174.60	0.099	74.96	4.1	847	1075

LAYING CONDITIONS AT TREFOIL FORMATION ARE AS BELOW:

SOIL THERMAL RESISTIVITY	120 C.Cm/WATT
BURIAL DEPTH	0.5M
GROUND TEMPERATURE	15°C
AIR TEMPERATURE	25°C
FREQUENCY	50HZ

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.

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