

3.5 & 4 Core Aluminium Conductor EBXL XLPE 120°C Insulated, HR PVC Sheathed, (UA) UV Resistant Power Cable

Construction:

- Conductor : Aluminium conductor complying with IS : 8130 - 1984
 Insulation : Electron Beam Cross Linked Polyethylene 120°C
 Jacket : PVC ST 2 & UV Resistant complying with IS : 5831 - 1984. (Colour Black)
 Optional : 105°C HR PVC (UV)
 Specification : IS : 7098 (P-1) / 1988 (with enhanced operating temperature)

Applications

- PV Power cables
 Transmission and distribution of Power
 Industrial units
 Commercial and residential places
 Indoor and outdoor uses
 Cable ducts, cable trays and conduits
 Direct burial.

Technical Data

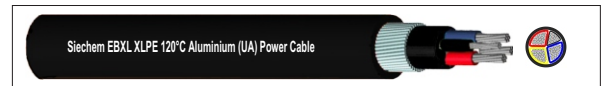
- Operating Temperature : -15°C to +120°C
 High Insulation resistance at elevated temperature
 Short Circuit Temperature : 250°C
 Bending radius (min) : 12 x Cable dia
 Test Voltage : 3 kV for 5 mins.



Features

- Electron Beam Cross Linked. Does not melt or drip
 Enhanced Mechanical, Electrical, Thermal & Weathering properties.
 Flame retardant
 Excellent UV and Ozone resistant.
 Specially designed for PV Power cable segment.

ISO 9001	ISO 14001	OHSAS 18001	AS 9100	ISO 45001	TUV
----------	-----------	-------------	---------	-----------	-----



Part Number	Cond Area Sq.mm	Cond. Min. No. of Wires		Thickness of EBXL XLPE Insulation (Nom.)		Min. Thickness of PVC Inner Sheath		Thickness of Outer Sheath (Nom.)		Approx. Overall Diameter		Approx. Net Wt. of Cable		Max. D.C Resistance at 20°C Ohm/Km	Approx. Capacitance per phase µF/Km	Current Rating For EBXL - XLPE Cables (120°C)						Short Circuit Rating for 1 sec KA
		Nos		mm		mm		mm		mm		Kg/Km				Direct in Ground	In Duct	In Air				
																Amps	Amps	Amps				
		3.5Core	4Core	3.5Core	4Core	3.5Core	4Core	3.5Core	4Core	3.5Core	4Core	3.5Core	4Core			3.5Core	4Core	3.5Core	4Core	3.5Core	4Core	
652E19XX	4		1		0.7		0.3		1.8		15		190	7.41	0.22		44		37		38	0.38
652E23XX	6		1		0.7		0.3		1.8		16		220	4.61	0.25		54		45		49	0.57
652E27XX	10		1		0.7		0.3		1.8		18		270	3.08	0.31		71		59		69	0.94
653W28XX	16		6		0.7		0.3		1.8		19		360	1.91	0.36		92		76		91	1.5
653W30XX	25	6	6	0.9	0.9	0.3	0.3	2.0	2.0	22.0	22	480	520	1.20	0.41	117	117	97	97	114	114	2.4
653W32XX	35	6	6	0.9	0.9	0.3	0.3	2.0	2.0	24.0	25	580	650	0.868	0.47	141	141	116	116	142	142	3.3
653W34XX	50	6	6	1.0	1.0	0.3	0.3	2.0	2.0	27.0	28	740	860	0.641	0.50	168	168	136	136	173	173	4.7
653W37XX	70	12	12	1.1	1.1	0.4	0.4	2.2	2.2	32.0	32	1000	1170	0.443	0.53	207	207	168	168	221	221	6.6
653W38XX	95	15	15	1.1	1.1	0.4	0.4	2.2	2.2	35.0	35	1290	1500	0.320	0.61	246	246	199	199	269	269	9.0
653W41XX	120	15	15	1.2	1.2	0.4	0.5	2.2	2.4	38.0	39	1600	1790	0.253	0.63	278	278	224	224	311	311	11.3
653W42XX	150	15	15	1.4	1.4	0.5	0.5	2.4	2.6	42.0	44	1930	2210	0.206	0.64	315	315	255	255	360	360	14.2
653W44XX	185	30	30	1.6	1.6	0.5	0.5	2.6	2.8	47.0	48	2420	2750	0.164	0.65	354	354	284	284	411	411	17.5
653W46XX	240	30	30	1.7	1.7	0.6	0.6	2.8	3.0	54.0	54	3100	3650	0.125	0.66	408	408	326	326	484	484	22.6
653W48XX	300	30	30	1.8	1.8	0.6	0.7	3.0	3.2	57.0	60	3800	4500	0.100	0.67	462	462	369	369	558	558	28.3
653W49XX	400	53	53	2.0	2.0	0.7	0.7	3.4	3.6	65.0	66	5100	5900	0.0778	0.67	513	513	410	410	619	619	37.7

Note : To identify the number of cores in the cables, replace XX by 3H - for 3.5 Core Cable & 04 - for 4 Core Cable.

