

Single Core Aluminium Conductor EBXL-XLPE 120°C Insulated, HR PVC Sheathed (A) UV Resistant Power Cable

Construction:

- Conductor : Aluminium conductor complying with IS : 8130 - 1984
 Insulation : Electron Beam Cross Linked Polyethylene 120°C
 Armour : Non magnetic round wires
 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.

Features

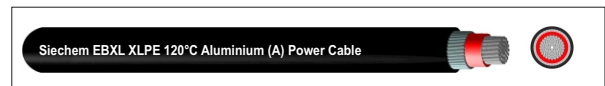
- Electron Beam Cross Linked. Does not melt or drip
 Enhanced Mechanical, Electrical, Thermal & Weathering properties.
 Flame retardant
 Excellent UV and Ozone resistant.
 Specially designed for PV Power cable segment.

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.

Siechem offers 120°C EBXL XLPE as against 90°C offered by rest of the competition

ISO 9001	ISO 14001	OHSAS 18001	AS 9100	ISO 45001	TUV
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Part Number	Conductor Area Sq.mm	Cond. Min. No. of Wires Nos	Thickness of EBXL XLPE Insulation (Nom.) mm	Dimension of Arm Wire (Nom.) mm	Thickness of Outer Sheath (Min.) mm	Approx. Overall Diameter mm	Approx. Net Wt. of Cable Kg/Km	Max. D.C Resistance at 20 deg.C Ohm/Km	Approx. Capacitance per phase µF/Km	Current Rating For EBXL - XLPE Cables (120°C)			Short Circuit Rating for 1 sec KA
										Direct in Ground Amps	In Duct Amps	In Air Amps	
654SRA19XX04	4	1	1.0	1.4	1.24	10.5	131	7.41	-	57	48	55	0.38
654SRA23XX04	6	1	1.0	1.4	1.24	11.0	152	4.61	-	71	62	68	0.57
654SRA27XX04	10	1	1.0	1.4	1.24	12.0	176	3.08	0.32	87	74	83	0.94
655SRA28XX04	16	6	1.0	1.4	1.24	12.5	200	1.91	0.38	112	97	109	1.5
655SRA30XX04	25	6	1.2	1.4	1.24	14.5	287	1.20	0.380	149	126	143	2.4
655SRA32XX04	35	6	1.2	1.4	1.24	15.5	331	0.868	0.423	176	152	178	3.3
655SRA34XX04	50	6	1.3	1.4	1.24	17.0	406	0.641	0.464	212	180	217	4.7
655SRA37XX04	70	12	1.4	1.4	1.24	19.5	523	0.443	0.518	258	224	281	6.6
655SRA38XX04	95	15	1.4	1.6	1.4	20.0	655	0.320	0.587	310	267	342	9.0
655SRA41XX04	120	15	1.5	1.6	1.4	22.0	767	0.253	0.616	351	311	399	11.3
655SRA42XX04	150	15	1.7	1.6	1.4	24.0	907	0.206	0.607	394	349	460	14.2
655SRA44XX04	185	30	1.9	1.6	1.4	26.0	1067	0.164	0.604	453	398	529	17.5
655SRA46XX04	240	30	2.0	1.6	1.4	29.0	1322	0.125	0.657	522	463	627	22.6
655SRA48XX04	300	30	2.1	1.6	1.56	31.0	1522	0.100	0.689	597	534	725	28.3
655SRA49XX04	400	53	2.4	2.0	1.56	35.0	2015	0.0778	0.696	661	611	875	37.7
655SRA50XX04	500	53	2.6	2.0	1.56	38.0	2465	0.0605	0.716	754	709	1013	47.2
655SRA51XX04	630	53	2.8	2.0	1.72	43.0	2969	0.0469	0.745	858	819	1178	59.4

Current ratings given in this leaflet are calculated at an ambient air temperature 40°C and ground temperature 30°C

Rating factors for variation in ambient air temperature :

Temperature - °C	20	25	30	35	40	45	50	55	60	65	70	75	80
Rating Factors	1.12	1.09	1.06	1.03	1.00	0.97	0.94	0.91	0.88	0.83	0.79	0.75	0.71

Note : Please replace XX in the part number as per the colour code given hereunder.

Red - 01	Yellow - 02	Blue - 03	Black - 04	Green - 05	Yellow-Green - 06	Grey - 07
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