

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

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.

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

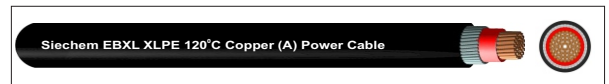
Construction:

Conductor : Annealed Plain Copper 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), FRLS, FRLSZH.
Specification : IS : 7098 (P-1) / 1988
(with enhanced operating temperature)

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.

ISO 9001	ISO 14001	OHSAS 18001	AS 9100	ISO 45001	TUV 
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Part Number	Conductor Area	Cond. Min. No. of Wires	Thickness of EBXL XLPE Insulation (Nom.)	Dimension of Arm Wire (Nom.)	Thickness of Outer Sheath (Min.)	Approx. Overall Diameter	Approx. Net Wt. of Cable	Max. D.C Resistance at 20 deg.C	Approx. Capacitance per phase	Current Rating For EBXL - XLPE Cables (120°C)			Short Circuit Rating for 1 sec
										Direct in Ground	In Duct	In Air	
	Sq.mm	Nos	mm	mm	mm	mm	Kg/Km	Ohm/Km	µF/Km	Amps	Amps	Amps	KA
664SRA13XX04	1.5	1	1.0	1.4	1.24	9.5	117	12.1	-	39	34	34	0.21
664SRA16XX04	2.5	1	1.0	1.4	1.24	10.0	134	7.41	-	53	45	47	0.36
664SRA19XX04	4	1	1.0	1.4	1.24	10.5	156	4.61	-	68	60	61	0.57
664SRA23XX04	6	1	1.0	1.4	1.24	11.0	189	3.08	-	86	74	78	0.86
665SRA27XX04	10	6	1.0	1.4	1.24	12.0	233	1.83	0.32	112	98	105	1.4
665SRA28XX04	16	6	1.0	1.4	1.24	12.5	300	1.15	0.38	150	126	140	2.3
665SRA30XX04	25	6	1.2	1.4	1.24	14.5	438	0.727	0.380	192	164	191	3.6
665SRA32XX04	35	6	1.2	1.4	1.24	15.5	547	0.524	0.423	229	197	237	5.0
665SRA34XX04	50	6	1.3	1.4	1.24	17.0	691	0.387	0.464	272	234	286	7.1
665SRA37XX04	70	12	1.4	1.4	1.24	19.5	953	0.268	0.518	333	290	367	10.0
665SRA38XX04	95	15	1.4	1.6	1.4	20.0	1147	0.193	0.587	396	344	446	13.6
665SRA41XX04	120	18	1.5	1.6	1.4	22.0	1398	0.153	0.616	449	398	517	17.1
665SRA42XX04	150	18	1.7	1.6	1.4	24.0	1706	0.124	0.607	507	447	597	21.4
665SRA44XX04	185	30	1.9	1.6	1.4	26.0	2071	0.0991	0.604	571	513	680	26.4
665SRA46XX04	240	34	2.0	1.6	1.4	29.0	2575	0.0754	0.657	665	600	803	34.3
665SRA48XX04	300	34	2.1	1.6	1.56	31.0	3213	0.0601	0.689	750	688	927	42.9
665SRA49XX04	400	53	2.4	2.0	1.56	35.0	4187	0.0470	0.696	838	786	1112	57.1
665SRA50XX04	500	53	2.6	2.0	1.56	38.0	5187	0.0366	0.716	941	895	1282	71.4
665SRA51XX04	630	53	2.8	2.0	1.72	43.0	6480	0.0283	0.745	1065	1037	1483	90.0

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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