

Single 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

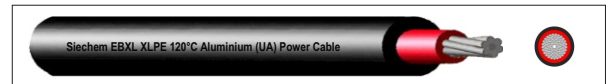
- Operating Temperature : -15°C to +120°C
 High Insulation resistance at elevated temperature
 Short Circuit Temperature : 250°C
 Bending radius (min) : 12 x Cable dia
 Test Voltage : 3 kV for 5 mins.

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

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
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Part Number	Conductor Area Sq.mm	Cond. Min. No. of Wires Nos	Thickness of EBXL XLPE Insulation (Nom.) mm	Thickness of Outer Sheath (Nom.) 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	
652S19XX04	4	1	0.7	1.8	7.5	65	7.41	0.29	57	48	55	0.38
652S23XX04	6	1	0.7	1.8	8.0	80	4.61	0.34	71	62	68	0.57
652S27XX04	10	1	0.7	1.8	9.0	90	3.08	0.43	87	74	83	0.94
653S28XX04	16	6	0.7	1.8	10.0	125	1.91	0.51	112	97	109	1.5
653S30XX04	25	6	0.9	1.8	11.5	160	1.20	0.487	149	126	143	2.4
653S32XX04	35	6	0.9	1.8	12.5	190	0.868	0.545	176	152	178	3.3
653S34XX04	50	6	1.0	1.8	13.5	250	0.641	0.586	212	180	217	4.7
653S37XX04	70	12	1.1	1.8	15.5	325	0.443	0.643	258	224	281	6.6
653S38XX04	95	15	1.1	1.8	17.0	415	0.320	0.731	310	267	342	9.0
653S41XX04	120	15	1.2	1.8	19.0	520	0.253	0.755	351	311	399	11.3
653S42XX04	150	15	1.4	2.0	21.0	625	0.206	0.724	394	349	460	14.2
653S44XX04	185	30	1.6	2.0	23.0	750	0.164	0.705	453	398	529	17.5
653S46XX04	240	30	1.7	2.0	26.0	960	0.125	0.764	522	463	627	22.6
653S48XX04	300	30	1.8	2.0	28.0	1120	0.100	0.794	597	534	725	28.3
653S49XX04	400	53	2.0	2.2	33.0	1450	0.0778	0.823	661	611	875	37.7
653S50XX04	500	53	2.2	2.2	36.0	1760	0.0605	0.835	754	709	1013	47.2
653S51XX04	630	53	2.4	2.2	40.0	2210	0.0469	0.859	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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