

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

Construction:

- Conductor : Annealed Plain Copper 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

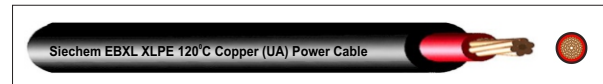
- Operating Temperature : -15°C to +120°C
High Insulation resistance at elevated temperature
Short Circuit Temperature : 250°C
Bending radius (min) : 12 x Cable dia
Test Voltage : 3 kV for 5 mins.

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	Cond. Min. No. of Wires	Thickness of EBXL XLPE Insulation (Nom.)	Thickness of Outer Sheath (Nom.)	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	Kg/Km	Ohm/Km	µF/Km	Amps	Amps	Amps	KA
662S13XX04	1.5	1	0.7	1.8	6.8	65	12.1	0.19	39	34	34	0.21
662S16XX04	2.5	1	0.7	1.8	7.2	75	7.41	0.24	53	45	47	0.36
662S19XX04	4	1	0.7	1.8	7.5	95	4.61	0.29	68	60	61	0.57
662S23XX04	6	1	0.7	1.8	8.0	120	3.08	0.34	86	74	78	0.86
663S27XX04	10	6	0.7	1.8	9.0	165	1.83	0.43	112	98	105	1.4
663S28XX04	16	6	0.7	1.8	10.0	225	1.15	0.51	150	126	140	2.3
663S30XX04	25	6	0.9	1.8	11.5	320	0.727	0.487	192	164	191	3.6
663S32XX04	35	6	0.9	1.8	12.5	415	0.524	0.545	229	197	237	5.0
663S34XX04	50	6	1.0	1.8	13.5	545	0.387	0.586	272	234	286	7.1
663S37XX04	70	12	1.1	1.8	15.5	770	0.268	0.643	333	290	367	10.0
663S38XX04	95	15	1.1	1.8	17.0	1000	0.193	0.731	396	344	446	13.6
663S41XX04	120	18	1.2	1.8	19.0	1260	0.153	0.755	449	398	517	17.1
663S42XX04	150	18	1.4	2.0	21.0	1570	0.124	0.724	507	447	597	21.4
663S44XX04	185	30	1.6	2.0	23.0	1910	0.0991	0.705	571	513	680	26.4
663S46XX04	240	34	1.7	2.0	26.0	2410	0.0754	0.764	665	600	803	34.3
663S48XX04	300	34	1.8	2.0	28.0	2980	0.0601	0.794	750	688	927	42.9
663S49XX04	400	53	2.0	2.2	33.0	3970	0.0470	0.823	838	786	1112	57.1
663S50XX04	500	53	2.2	2.2	36.0	4945	0.0366	0.835	941	895	1282	71.4
663S51XX04	630	53	2.4	2.2	40.0	6130	0.0283	0.859	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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