

**GUARANTEED TECHNICAL PARAMETERS**
**Cable Description : 1c x 6 mm<sup>2</sup> Annealed Tinned Flexible Copper Conductor, EBXL XLPO insulated & Sheathed Solar Cable**

	Part No	8301029004 8301029020	ÖLFLEX® SOLAR XLS-E 1X6 Sq mm WH/BK ÖLFLEX® SOLAR XLS-E 1x6 Sq mm WH/BK-RD
Sr.N	Properties	Unit	Specification (Based on EN50618 & IEC62930)
1	Cable size (nominal)	Sq.mm	6
2	No.of Cores	Nos.	1
3	Construction		1 x 6.0
4	I) Voltage Rating ( U <sub>o</sub> / U ) -AC		1.0 / 1.0
5	II) Voltage Rating - ( U <sub>o</sub> / U ) -DC	kV	1.5 / 1.5 DC 1.8 kV max. (conductor/conductor, non earthed system)
5.1	Material		Fine wire strands of annealed tinned copper
5.2	Max. conductor temperature	°C	120
5.3	Type of Conductor		According to IEC 60228, Class 5
5.4	No of Wire (Strands)	Nos.	84
5.5	Strand Diameter	mm	0.30 (+0.01/-0.02)
5.6	Max. DC Conductor Resistance at 20°C	Ohm/km	3.39
6	<b>INSULATION</b>		
6.1	Material		Electron beam cross-linked polyolefin co-polymer (XLPO)
6.2	Nominal Thickness of Insulation	mm	0.7
6.3	Insulation Resistance ( Min)	MΩ.km	500 (20°C), 0.5 (90°C)
6.4	Insulation Colour		White
6.5	min, thickness of insulation	mm	0.53
7	<b>Outer Sheath</b>		
7.1	Material		Electron beam cross-linked polyolefin co-polymer
7.2	Nom.Thickness of Outer sheath	mm	0.8
7.3	Nominal Overall Diameter of cable	mm	6
7.4	min, thickness of outer sheath	mm	0.58
7.5	Approx cable weight	Kg/km	87.57
7.6	Copper Index	Kg/km	57.6
7.7	Marking on the Cable		U274 LAPP KABEL STUTTGART ÖLFLEX® SOLAR XLS-E 1/1 kV AC / DC 1500V 1 x 6 SQMM HALOGEN FREE LOW SMOKE ELECTRIC CABLE <TRACEABILITY> <METER MARKING>
8.1	Current Rating in Air at 60 °C Ambient Temp.	Amps	70 A (Single cable free in air)
8.2	Max.Continuous working Temp	°C	120°C
8.3	Max.conductor temp at termination of short circuit	°C	250°C(5s)
8.4	Min, Bending Radius	mm	occasional flexing: 15 cable diameter fixed installation: 5 cable diameter
8.5	Relevant standards		Voltage test with AC - AC 6.5kV for 5 Min. UV Resistance - EN 50618 Annex E Ozone resistant - EN50396 Flame retardant - IEC 60332-1-2 Acid & Alkaline resistant - EN60811-2-1 Damp Heat test - 90 deg for 1000hours(EN 60068-2-78) RoHS - EC-Directive 2011/65/EU
8.6	Packing Length	mtr	1000M
8.7	Qty Tolerance	mtr	+/- 5%
8.8	Cable End Sealing		YES

**Originator: CS / PE**  
**Approved: SNP / PE**
