

Guaranteed Technical Particulars

Cable Description : 1c x 4 mm² Annealed Tinned Flexible Copper Conductor, EBXL XLPO insulated & Sheathed Solar Cable

Sr.No	Properties	Unit	Specification (Based on EN50618)
	Part No	1023652	OLFLEX SOLAR XLR-E 1X4 SQ WH/BK
		1023667	OLFLEX SOLAR XLR-E 1X4 SQ WH/BK-RD
1.0	Cable size (nominal)	Sq.mm	4
2.0	No.of Cores	Nos.	1
3.0	Construction		1X4.0
4.0	I) Voltage Rating (U _o / U) -AC	kV	1.0 / 1.0
5.0	II) Voltage Rating - (U _o / U) -DC		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	Cross Sectional area	sq.mm	4
5.3	Type of Conductor		According to IEC 60228, Class 5
5.4	Min, No of Wire (Strands)	Nos.	56
5.5	Strand Diameter	mm	0.30 (+0.01/-0.02)
5.6	Max. DC Conductor Resistance at 20°C	Ohm/km	5.09
6.0	INSULATION		
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	580 (20°C), 0.58 (90°C)
6.4	Insulation Colour		White
6.5	min, thickness of insulation	mm	0.53
7.0	Outer Sheath		
7.1	Material		Electron beam cross-linked polyolefin co-polymer
7.2	Nom.Thickness of Outer seath	mm	0.8
7.3	Nominal Overall Diameter of cable	mm	5.4
7.4	min, thickness of outer sheath	mm	0.58
7.5	Approx cable weight	Kg/km	66
7.6	Copper Index	Kg/km	38.4
7.7	Marking on the Cable		U274 LAPP KABEL STUTTGART ÖLFLEX® SOLAR XLR-E 1/1kV AC 1500 V DC 1 X 4 SQ MM H1Z2Z2-K TUV TYPE APPROVED ELECTRIC CABLE <CE> <METER MARKING>
8.1	Current Rating in Air at 60 °C Ambient Temp.	Amps	55 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	Packing Length	mtr	1000M
8.6	Cable End Sealing		YES (Heat Shrinked Elastomeric cap fastened with "U" nail)

Originator: SNP / ME
Approved: SK / PE

