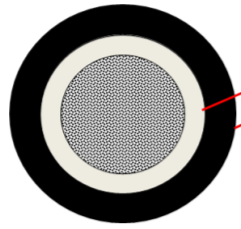


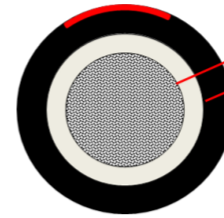
TECHNICAL PARTICULARS

1.0/1.0 KV AC OR 1.5/1.5 KV DC (Nom)(1.8 KV DC(Max.) SOLAR CABLE

Date : 08/05/2021



Tinned Copper Clad Aluminium Alloy (Multistranded Flexible)
Insulation - XLPO (EBXL)
Outer Sheath - XLPO (EBXL) - Black



Tinned Copper Clad Aluminium Alloy (Multistranded Flexible)
Insulation - XLPO (EBXL)
Outer Sheath - XLPO (EBXL) - Black with Red Strip

Sr.No.	PARTICULARS	SIZE : UNIT	1 X 5.52 Sq.mm
1.	NAME OF MANUFACTURER		APAR INDUSTRIES LTD (UNIT : UNIFLEX CABLES)
2.	APPLICABLE STANDARD		GENERALLY AS PER EN-50618/2014
3.	TYPE OF CABLE		SOLAR CABLE
4.	VOLTAGE GRADE	KV KV	1.0/1.0 KV (AC) 1.5 KV (DC)(Nom) (both Conductor to Conductor & Conductor to Earth) 1.8 KV (DC)(Max)
5.	NO. OF CORES	No.	1
6.	CONDUCTOR	a) Material b) Nom. Size c) Shape d) No.of strands e) Max.Wire dia.(Before stranding) f) Approx.Conductor Diameter g) Max. D.C. Resistance at 20°C	TINNED COPPER CLAD ALUMINIUM ALLOY 5.52 MULTI STRANDED FLEXIBLE GENERALLY AS PER IEC 60228:2004 44 0.41 3.05 5.09
7.	INSULATION	a) Material b) Nom. Thickness c) Colour of Insulation d) Min Insulation Resistance	ELECTRON BEAM CROSS LINKED CO-POLYMER HALOGEN FREE (XLPO) (POLYOLEFIN) 0.7 NATURAL 580 Mega Ohm.KM AT 20°C
8.	OUTER SHEATH	a) Material b) Nom. Thickness c) Colour	ELECTRON BEAM CROSS LINKED CO-POLYMER HALOGEN FREE (XLPO) (POLYOLEFIN) 0.8 Black(50% Qty),Black with red strip(50% Qty)
9.	OVERALL DIAMETER OF CABLE	mm	6.2 (Approx.)
10.	APPROX. NET WEIGHT OF CABLE	Kg/Km	49
11.	PROPERTY OF CABLE		6.5 KV AC FOR 5 min.(Equivalent DC Voltage 15KV)
	- Test Voltage		
	- Conductor Temperature		
	a) Max.conductor temperature at rated current	°C	90
	b) Short circuit Temperature	°C	250 for 5 Second
	c) Conductor temperature when oveload capacity	°C	120
	d) Min.conductor temperature at rated current	°C	- 40
	e) Operating Temperature	°C	- 40 to +120
	- Service life		EXPECTED SERVIVE LIFE 25 YEARS
	- Acid & Alkalki Resistance on sheath		AS PER EN : 60811-404
	- Weathering & UV Resistance on sheath		AS PER EN-50618/2014
	- Ozone Resistance on complete cable		Method A (AS PER EN : 60811-403)
	- Thermal Endurance Test		AS PER EN : 60216
	- Dynamic Penetration Test		AS PER EN-50618/2014
	- Damp heat Test		AS PER EN : 60068-2-78
	- Smoke emission		60 % TRANSMITTANCE (Min.) (AS PER IEC : 61034)
	-Water Resistance(Long Term Resistance of Insulation to DC)		AS PER EN: 50395
	-Surface Resistance on Sheath		AS PER EN: 50395

Sr.No.	PARTICULARS	SIZE : UNIT	1 X 5.52 Sq.mm
	- Halogen free - Vertical Flame Propagation Test - Min. Bending radius of cable	mm	AS PER IEC : 60754 - 1 AS PER IEC : 60332-1 5 TIMES O.D.
	a) In Air (upto 60°C)	Amp	55
	b) In Ground at 30°C/In Trench	Amp	49
	c) In Duct at 30°C/In Trench	Amp	45
	Current Rating		
	d) Single cable on surface	Amp	52
	e) Two cables adjacent on surface	Amp	44
12	STANDARD PACKING LENGTH	Mtrs.	1000/2000 ± 5%
13	CABLE END SEALING		END CAP WITH SUITABLE MATERIAL
14	NON STANDARD LENGTH ORDER QUANTITY TOLERANCE		10%-20% QUANTITY TO BE SUPPLIED IN NON STD.LENGTHS. ±5%
15	PRINTING		0000M APAR-UNICAB INDIA 1.8KV DC EBXL XLPO/XLPO 120°C " H1Z2Z2-K" TCCAA SOLAR CABLE (GENERALLY AS PER EN 50618) ZH-FRLS "FRNC " size in sqmm 2021

Note : The No. of strands & Strand diameter shall be such that it meets the conductor resistance as per relevant standard.