

Single Core Copper Conductor Electron Beam Cross Linked Solar Cable as per EN 50618 Specification

Construction

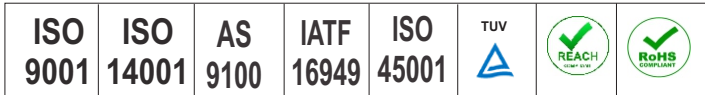
Conductor : Annealed Tinned Copper (APC Optional) according to IEC 60228, Class 5 or as per customer order
 Insulation : EBXL - XLPO 120°C (Colour White, Red & Black) other colours as per customer order
 Jacket : EBXL- XLPO Highly Weather & UV Resistant (Colour Black, Blue, Red, Brown, Grey, Black with Red stripe)

Features

Resistance against UV, Water, Ozone, Fluids, Oil, Salt & General Weathering.
 Electron Beam Cross Linked
 Halogen Free
 Flame Retardant
 Low Smoke Emission
 RoHS compliant as per EU norms

Technical data

Temperature Range : -40°C to +120°C
 Max. Temp. at Conductor : 120°C (20,000h)
 Test Voltage : 6500V AC for 5 minutes
 Insulation Resistance Test & Voltage Test : EN 50395
 Rated Voltage : 1.0/1.0kV AC, 1.5/1.5 kV DC
 Max. Voltage : 1.8 kV DC
 Short Circuit Temp : +280°C
 Halogen Free : EN50525-1
 Flame Retardant : EN 60332-1-2
 Low Smoke Emission : EN 61034-2
 UV and Weathering Resistance: EN 50618, EN 50289-4-17
 Min Bending Radius :
 (i) Cable OD x 4 for OD ≤ 8.0 mm
 (ii) Cable OD x 5 for 8.0 ≤ OD ≤ 12.0 mm
 (iii) Cable OD x 6 for OD >12.0 mm



Singlecore Solar Cable

Part Number	Cross Section Area	Nominal Insulation Thickness	Nominal Sheath Thickness	Cable Diameter (Max.)	Max. DC Conductor Resistance at 20°C	Cable Weight (Nom.)	Current Rating for Two Loaded Cables Touching on Surfaces
	Sq.mm	mm	mm	mm	Ω/km	Kg/Km	Amps
A47613XXYY	1.5	0.7	0.8	5.4	13.7	37	24
A47616XXYY	2.5	0.7	0.8	5.9	8.21	45	33
A47619XXYY	4	0.7	0.8	6.6	5.09	58	44
A47623XXYY	6	0.7	0.8	7.4	3.39	78	57
A47627XXYY	10	0.7	0.8	8.8	1.95	125	79
A47628XXYY	16	0.7	0.9	10.1	1.24	175	107
A47630XXYY	25	0.9	1.0	12.5	0.795	270	142
A47632XXYY	35	0.9	1.1	14.0	0.565	385	176
A47634XXYY	50	1.0	1.2	16.3	0.393	535	221
A47637XXYY	70	1.1	1.2	18.7	0.277	720	278
A47638XXYY	95	1.1	1.3	20.8	0.210	930	333
A47641XXYY	120	1.2	1.3	22.8	0.164	1160	390
A47642XXYY	150	1.4	1.4	25.5	0.132	1435	453
A47644XXYY	185	1.6	1.6	28.5	0.108	1800	515
A47646XXYY	240	1.7	1.7	32.1	0.0817	2240	620
A47648XXYY	300	2.4	2.4	32.6	0.0654	2925	714
A47649XXYY	400	2.6	2.6	36.8	0.0495	3800	795

*Note : Insulations colour (XX) - Please add two digits in the part number as per the colour code given hereunder replacing XX while ordering
 Red - 01, Black - 04, White - 09
 Sheath Colour (YY) please add two digits in the part number as per the colour code given hereunder replacing YY while ordering
 Red - 01, Blue - 03, Black - 04, Brown - 08, Grey - 07, Black / Red - 39*

