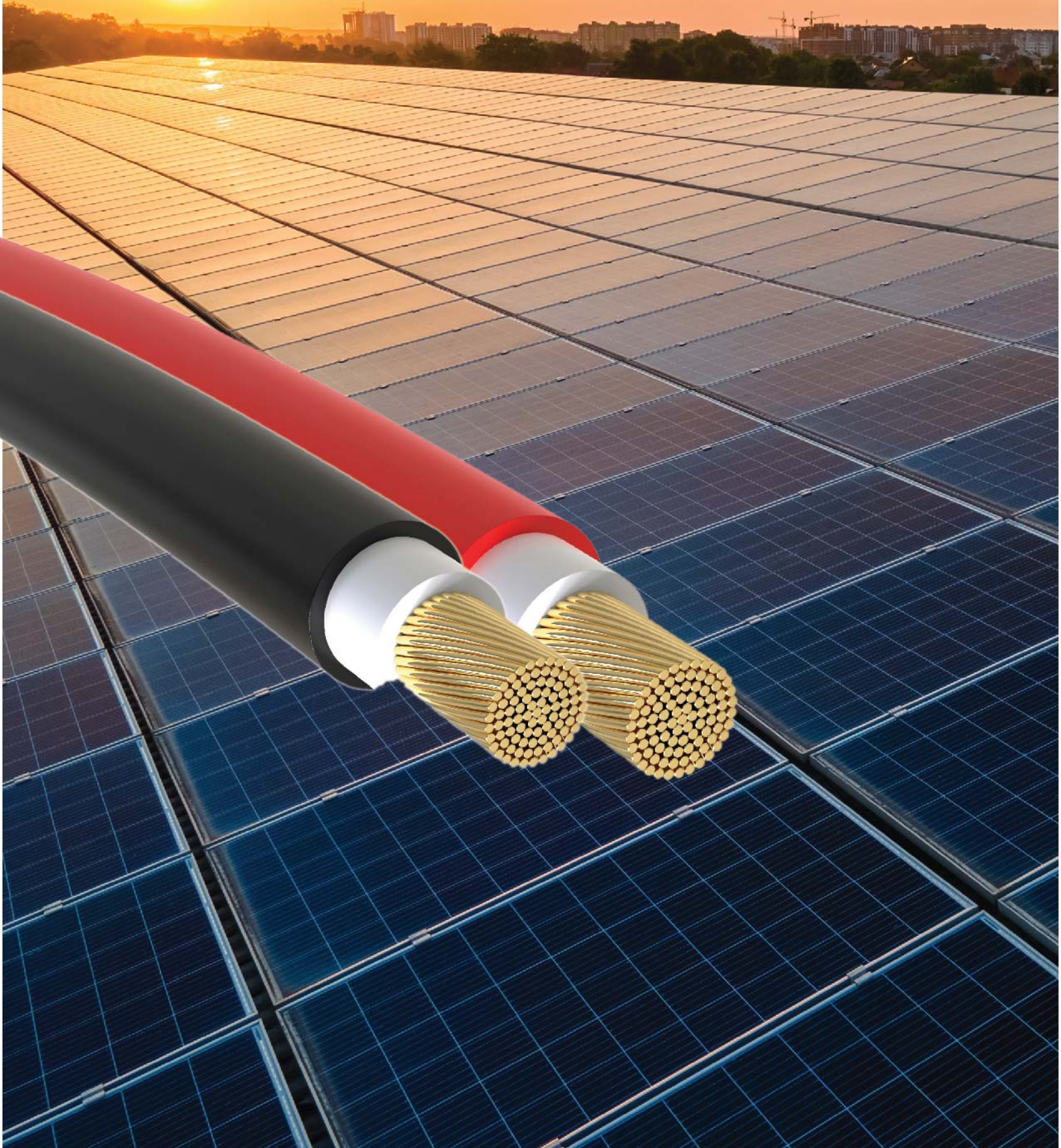


# Nuhas Oman

## Solar (Photovoltaic) Cables



Nuhas oman low smoke halogen free, flexible solar cables are used in Photovoltaic system in particular for installation at the Direct current (d.c) side & permanent outdoor use for many years under variable extreme climate conditions.

# SOLAR CABLES

**Voltage:** 1500 V dc & 1.0/1.0 kV ac

**Cable Standard:** BS EN 50618

## Construction:

Conductor: Tinned annealed copper flexible class 5 to BS EN 60288

Insulation: Cross-linked halogen free material

Sheath: Cross-linked halogen free material

## Temperature Rating:

- Continuous operating temp 90°C
- Max 120°C for 20000 h

## Cable Characteristics:

- Flame retardant to BS EN 60332-1-2
- Low Smoke emission to BS EN 61034
- Zero emission of Halogen acid gas
- Resistant to UV
- Thermal endurance test for 20,000 h

## Technical Particular

Nominal Area of Conductor	Thickness of Insulation	Nom thickness of over sheath	Nom Overall diameter	Approximate Cable weight	Max Conductor resistance at 20°C	Current carrying capacity (@ 60 °C)		
						Single cable free in air	Single cable on a surface	Two loaded cables touching
mm <sup>2</sup>	mm	mm	mm	kg/km	Ω/km	A	A	A
1 x 1.5	0.7	0.8	4.6	37	13.7	30	29	24
1 x 2.5	0.7	0.8	5.0	48	8.21	41	39	33
1 x 4	0.7	0.8	5.6	62	5.09	55	52	44
1 x 6	0.7	0.8	6.2	86	3.39	70	67	57
1 x 10	0.7	0.8	7.5	134	1.95	98	93	79
1 x 16	0.7	0.9	8.5	193	1.24	132	125	107
1 x 25	0.9	1.0	10.5	300	0.795	176	167	142
1 x 35	0.9	1.1	12.0	400	0.565	218	207	176
1 x 50	1.0	1.2	13.5	540	0.393	276	262	221
1 x 70	1.1	1.2	15.5	765	0.277	347	330	278
1 x 95	1.1	1.3	17.5	1025	0.210	416	395	333
1 x 120	1.2	1.3	19.5	1275	0.164	488	464	390
1 x 150	1.4	1.4	21.5	1515	0.132	566	538	453
1 x 185	1.6	1.6	24.5	1965	0.108	644	612	515
1 x 240	1.7	1.7	27.5	2535	0.0817	775	736	620



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