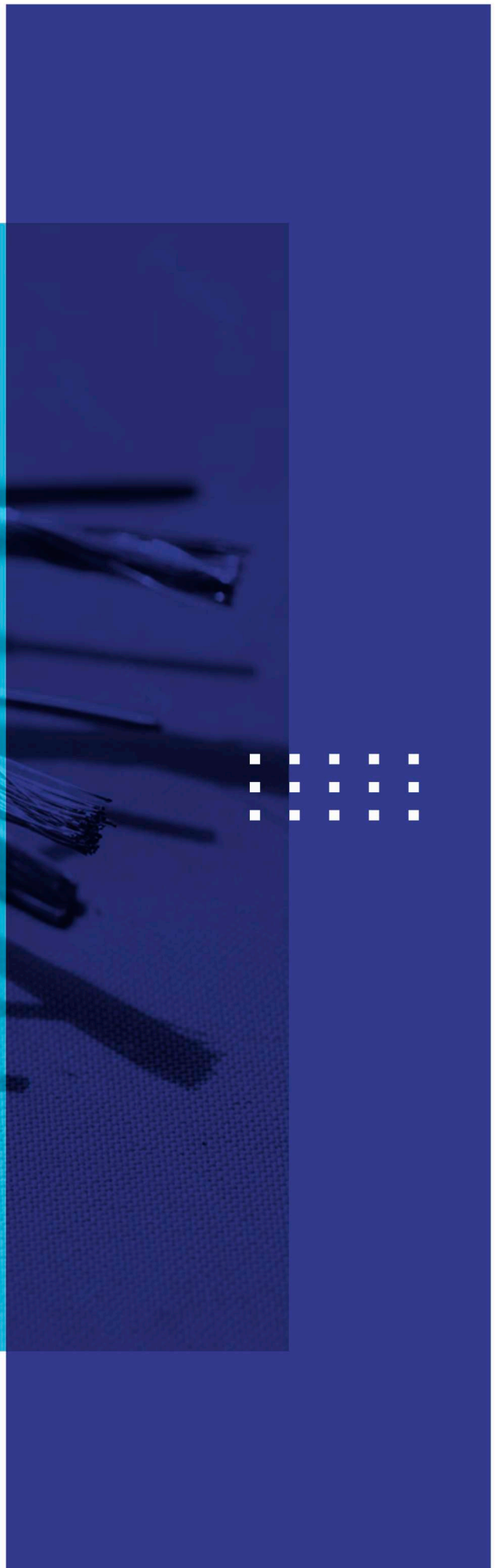
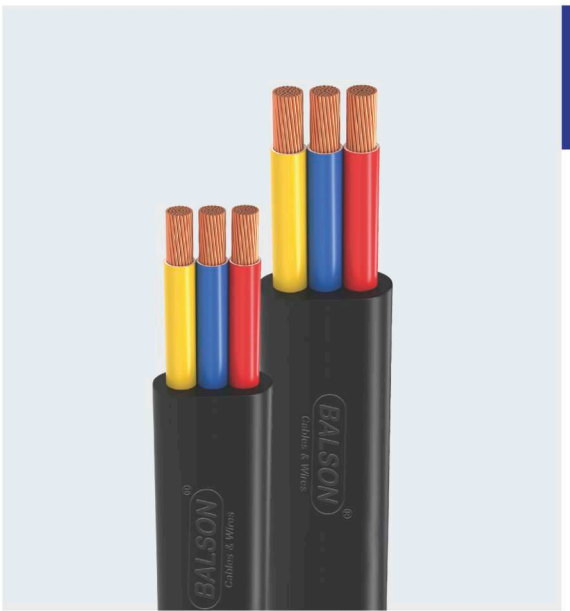




The Way of Power



Submersible Pump Cables

Application

Submersible Flat Cables are mainly used for connecting submersible pumps. The sheath is designed to resist tough and difficult condition of usage and has excellent resistance to water, conditionally resistant to oil and grease.

Special Features

- Excellent resistance to moisture, abrasion, grease, oil.
- Longer Flexible Life.
- Excellent mechanical & electrical properties.

Construction

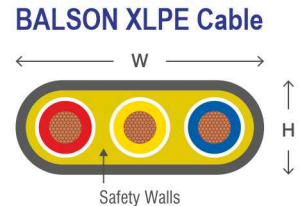
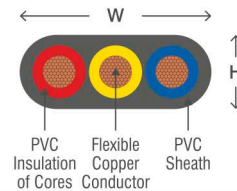
Conductor : Finely stranded bare flexible copper

Insulation : PVC/EPDM/EPR

Sheath : PVC/ EPR/EPDM/NBR

Core Colors : 3 Color - Red, Yellow, Blue or Brown, Blue, Black

4 Color - Red, Yellow, Blue, Green or Brown, Blue, Black, Yellow



Generally Conforming as to IEC 60227, BS 6500, UL-83, CENELEC HD 21, IS 694 and DIN VDE 0281

Technical Data (PVC / XLPE / Flat Cable)

Conductor		PVC Insulation		PVC Sheath			Conductor Resistance at 20°C (Max) ohms/km	Current Rating at 40°C Amps.
Nominal Size	Nos. & Dia of Wire	Nominal Thickness	Nominal Core Dia.	Nominal Thickness	Approx. Overall Dimensions			
Sq. mm	Nos./mm	mm	mm	mm	Height mm	Width mm		
1.50	22 / 0.30	0.80	2.95	1.15	5.45	11.30	13.30	16
2.50	36 / 0.30	0.90	3.50	1.15	6.40	13.50	7.98	22
4.00	56 / 0.30	1.00	4.00	1.15	6.90	15.20	4.95	29
6.00	84 / 0.30	1.00	5.10	1.15	8.25	18.20	3.30	37
10.0	140 / 0.30	1.00	6.30	1.40	9.90	23.70	1.91	51
16.0	224 / 0.30	1.00	8.00	1.40	11.80	28.00	1.21	68
25.0	350 / 0.30	1.20	10.10	2.00	14.70	35.50	0.780	86
35.0	490 / 0.30	1.20	11.30	2.00	16.80	39.50	0.554	110

Technical Data (PVC / XLPE / Flat Cable)

Size (Sq. mm)	1.5	2.5	4.0	6.0	10.0	16.0	25.0	35.0
PVC ISI	14	18	26	31	42	57	72	90
XLPE	19	27	35	43	60	75	92	120



Application

Cable designed for internal wiring in switch control, relay and instrumentation panels. Power wiring to sockets, machinery, industrial lights, etc.

Special Features

- Higher current carrying capacity.
- Excellent mechanical & electrical properties.
- Longer flex life.
- Highly thermally stable insulation.
- Operating temp. - 15°C to +70°C/+90°C.

Construction

Conductor : EC grade flexible copper | **Insulation** : PVC 70 C/FR PVC | **Sheath** : PVC/FR PVC/FRLS PVC

Generally conforms as to IS 694, BS 6004, IEC 60227, DIN VDE 0281-3, IS 8130 & IS 5831

Single Core Flexible Wires

Size	Nos. / Size	Approximate Dia	Max. D.C. Resistance @ 20°C	Current Rating
Sq. mm	mm	mm	ohm / km	Amp.
4.00	56 / 0.30	4.60	4.95	26
6.00	84 / 0.30	5.40	3.30	35
10.00	140 / 0.30	7.50	1.91	45
16.00	226 / 0.30	9.00	1.21	60
25.00	354 / 0.30	9.50	0.780	80
35.00	276 / 0.40	11.30	0.554	102

PVC Insulated & Sheathed Multi Core Flexible Cables

Size	Nos. / Size	Current Rating	Approximate Overall Diameter of Cable		
Sq. mm	mm	Amp	2 Core	3 Core	4 Core
0.50	16 / 0.20	4	6.20	6.60	7.20
0.75	24 / 0.20	7	6.80	7.20	7.90
1.00	32 / 0.20	11	7.00	7.50	8.10
1.50	48 / 0.20	14	7.60	8.10	9.00
2.50	80 / 0.20	19	9.00	9.60	10.50
4.00	56 / 0.30	26	10.60	11.30	12.40
6.00	84 / 0.30	33	12.60	13.40	15.20
10.00	140 / 0.30	45	16.60	17.00	18.80
16.00	226 / 0.30	60	18.80	20.10	22.20
25.00	354 / 0.30	75	24.00	25.60	28.20
35.00	276 / 0.40	102	-	27.5	30.5
50.00	396 / 0.40	138	-	31.7	35.6



A. Type 1 : UV PVC Insulated Sheathed (IS 694).

B. Type 2 : XLPO Sheathed Insulated.

Application

A solar cable interconnects solar panels and other electrical components of a photovoltaic system. Solar cables are designed to be UV and weather resistant.

Special Features

- Weather/UV-resistant acc. to HD 605/A1.
- Ozone-resistant according to EN 50396.
- Halogen-free and flame-retardant.
- Good notch and abrasion resistance.
- Long service life.

Construction

Conductor : Stranded tinned and bare copper wire.

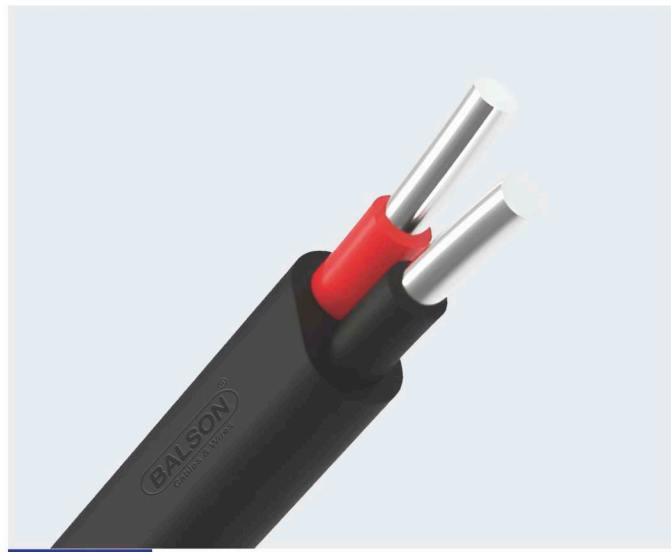
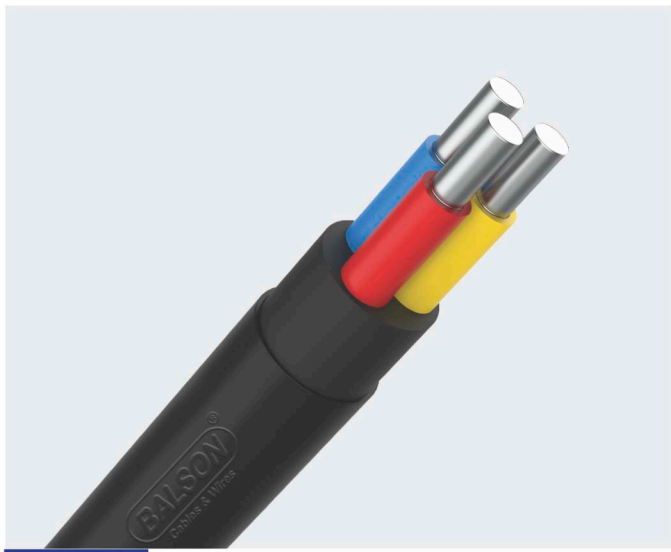
Insulation : Cross linked halogen free & Flame retardant Compound (XLPO)

Sheath : UV grade PVC/XLPO.

Core Colors : Black & others on request.

Solar DC Cables from PV Module to Array Junction Box

Single Core	Insulation Thickness	Sheath Thickness	Overall Diameter	Tolerance on Diameter	Tinned Copper Max. Resistance 20°C	Current Carrying (Single Cable in Air)
Sq. mm	mm	mm	mm		ohm / km	Amp.
1.5	0.7	0.8	4.8	± 0.4	13.700	30
2.5	0.7	0.8	5.2	± 0.4	8.210	41
4	0.7	0.8	5.8	± 0.4	5.090	55
6	0.7	0.8	6.4	± 0.4	3.390	70



A. Type 1 : UV PVC Insulated Sheathed (IS 694).

B. Type 2 : XLPO Sheathed Insulated.

Application

PVC insulated, and sheathed round aluminium unarmoured cables are laid on ground for connection purposes. The sheath is designed to resist tough and difficult condition of usage, excellent resistance to water, conditionally resistant to oil and grease.

Special Features

- Ultra tough, resistant to abrasion and harsh weather.
- Excellent mechanical & electrical properties.

Construction

Conductor : Solid high-grade aluminium.

Insulation : PVC/XLPE

Sheath : Dual, Special grade tough PVC.

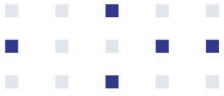
Core Colors : 2 Color - Red, Black (Twin Flat).

3 Color - Red, Yellow, Blue (Round).

4 Color - Red, Yellow, Blue, Black (Round).

Aluminium Unarmoured PVC Cables

Conductor		Insulation		Approx. Overall Dimensions		Conductor Resistance at 20°C (Max) ohms/km	Current Rating at 40°C Amps.
Nominal Size	Nos. & Dia of Wire	Nominal Thickness	Nominal Core Dia.	3 CORE Thickness (Width)	4 CORE Thickness (Width)		
Sq. mm	Nos./mm	mm	mm	mm	mm		
4.00	1 / 2.25	0.8	3.8	11.4	13	7.41	23
6.00	1 / 2.76	0.8	4.5	12.8	14	4.61	30
10.00	1 / 3.57	1.0	5.5	14.4	17	3.08	40
16.00	1 / 4.50	1.1	6.7	17.6	21	1.91	51
25.00	1 / 5.65	1.2	8.1	20.5	23	1.20	70
35.00	1 / 6.68	1.2	9.4	23.75	27.30	0.86	86



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IS : 694



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