



## TEST & RATING

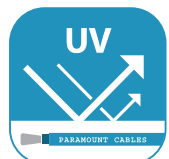
### SEVERE WEATHER RESISTANCE



Max. Conductor Temperature 120°C



Resistance To Extreme Temperatures



Resistance To UV Rays (UV) UL 1581



Resistance To Ozone IEC 60811-2-1



Resistance To Water Absorption IEC 60811-1-3

### LIFE EXPECTANCY



Design Life Time 30 Years IEC 60216

### MECHANICAL RESISTANCE



Impact Resistance IEC 60811-1-4



Abrasion Resistance EN 50305



Tear Resistance IEC 61034-2

### SAFE FOR ENVIRONMENT



Environment Friendly



Halogen Free IEC 60754-1



Low Corrosive Gas Emission IEC 60754-2

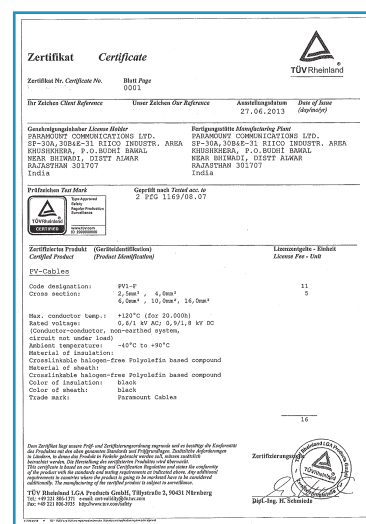


Low Smoke Opacity IEC EN 61034-2



Non Fire Propagation IEC 60332-3

## TUV CERTIFIED



## SOLAR CABLES



**E-BEAM IRRADIATED**  
improves thermal, mechanical and chemical properties of the polymer



**TÜV CERTIFIED**  
Designed to meet international safety requirements and quality standards



**LONG LIFE EXPECTANCY**  
Lasts up to 30 years even under tough external conditions.



**MECHANICAL RESISTANCE**  
Resistant to Impact, tear & abrasion

## PARAMOUNT COMMUNICATIONS LIMITED

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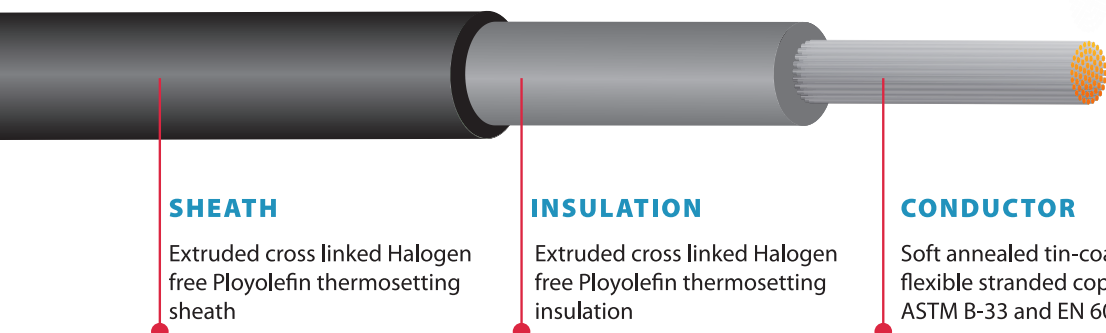
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## CONSTRUCTION



### SHEATH

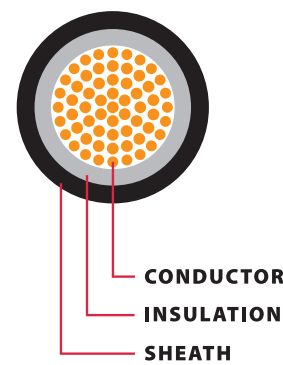
Extruded cross linked Halogen free Ployolefin thermosetting sheath

### INSULATION

Extruded cross linked Halogen free Ployolefin thermosetting insulation

### CONDUCTOR

Soft annealed tin-coated flexible stranded copper per ASTM B-33 and EN 60228



CONDUCTOR  
INSULATION  
SHEATH

Due to rapid depletion of conventional fossil fuels, global focus today has shifted on development and harnessing of renewable sources of energy. India has more than 300 sunny days in a year, which makes harnessing solar energy through photovoltaic (PV) system the most preferred green energy option. In a PV system, the choice of solar cable is critical as a substandard cable can result in low efficiency and overheating that can in turn lead to cause of fire in extreme cases.

Paramount now offers TÜV certified electron-beam cross-linked solar cables. E-Beam irradiation is a process in which the polymer is exposed to highly charged stream of electrons that creates cross-linking between the molecules. This cross-linking significantly improves thermal, mechanical and chemical properties of the polymer (i.e. insulation and sheathing materials.)

## FEATURES

E beam irradiated XLPO has following enhanced features over high temperature cross-linking:

1

UV and ozone resistant, improved weather resistance to work in difficult weather conditions.

2

Enhanced oil and chemical resistance, crack resistance.

3

Long-lasting cables Last 30 years, even under tough external conditions.

4

Conductor works in temperature minimum -40°C to max 120°C.

5

Halogen Free, improved flammability properties.

SIZE	CONDUCTOR	INSULATION THICKNESS	SHEATH THICKNESS	CABLE OD	WEIGHT OF CABLE	CURRENT RATING (A)			MAX. DC RESISTANCE OF CONDUCTOR AT 20°C (OHM/ KM)
sq.mm	No./ Dia of strand(mm) (nom.)	mm (minimum)	mm (minimum)	mm (Nominal)	Kg/ Km (Approx)	At 60°C in Air	Single Cables on Surface	2 Cables Adjacent on Surfaces	
2.5	50/0.25	0.5	0.5	4.2	35	41	39	33	8.21
4	56/0.3	0.5	0.5	4.7	50	55	52	44	5.09
6	84/0.3	0.5	0.5	5.5	70	70	67	57	3.39
10	80/0.4	0.5	0.5	6.5	110	98	93	79	1.95
16	126/0.4	0.5	0.5	8.3	170	132	125	107	1.24
25	196/0.4	0.5	0.5	11	285	176	167	142	0.795
35	276/0.4	0.5	0.5	12	385	218	207	176	0.565
50	396/0.4	0.8	1.0	14	535	276	262	221	0.393
70	360/0.5	0.9	1.0	16	735	347	330	278	0.277
95	475/0.5	0.9	1.1	18	945	416	395	333	0.21

## TECHNICAL SPECIFICATIONS

Voltage Rating	U/U = 600/1000 V AC, 1000/1800 V DC
Test Voltage	6.5 KV 50 Hz or 15 KV DC for 5 min
Temperature Rating	40°C up to +120°C
Ambient Temperature	-40°C up to +90°C
Bending Radius	>4×Ø (Cable OD)
Oil & Chemical resistance	IEC 60811-1
Max. Short circuit Temp	250°C(for 5 sec)

