

TÜV 2PFG 2642 Aluminum Solar Cable



APPLICATION

TÜV 2PFG 2642 certified aluminum alloy solar cables are designed specifically for the demanding environment of photovoltaic (PV) systems. These cables leverage aluminum conductors for cost-efficiency while maintaining excellent conductivity for DC applications up to 1500 volts. TÜV certification guarantees adherence to rigorous standards for electrical performance, mechanical strength, fire safety, and environmental durability, ensuring reliable and long-lasting performance in solar power generation.

CERTIFICATIONS

- TÜV



PACKAGING

Coil: 100m, 250m, 300m

Drum: 500m, 1000m, 2000m, 3000m

Other packaging available on request on request

CONSTRUCTION

Conductor : Aluminum Alloy

Insulation : 125°C XLPE

Sheath : 125°C XLPE

Sheath Color : Black/Red

Marking: FRCABLE TÜV 2PFG 2642 PVI500DC-AL PV CABLE

1X*mm² UV Res <http://www.fr-cable.com>

Conductor			Insulation			Jacket			Conductor resistance	Insulation resistance
Type	Construction	Conductor Diameter	Thickness	Thinnest point	Outer Diameter	Thickness	Thinnest point	Outer Diameter		
mm ²	N/mm	mm	mm	mm	mm	mm	mm	mm	Ω/km	MΩ·km
4.0	56/0.30	2.60	0.70	0.53	4.0±0.1	0.80	0.58	5.6±0.1	7.2	0.579
6.0	84/0.30	3.20	0.70	0.53	4.6±0.1	0.80	0.58	6.2±0.1	4.8	0.499
10.0	80/0.4	4.20	0.80	0.62	5.8±0.1	0.80	0.58	7.4±0.1	3.0	0.424

Electrical Characteristic:

Item	Units	Specification
Jacket resistance (90°C)	$\Omega \cdot \text{cm}$	$\geq 10^9$
Withstand voltage	V/5min	AC6500

Physical Properties

Item		Condition	Specification	
			Insulation	Jacket
Unaged	Tensile strength	--	$\geq 8.0 \text{Mpa}$	$\geq 8.0 \text{Mpa}$
	Elongation		$\geq 125\%$	$\geq 125\%$
Aging	Tensile strength	150±2°C X168h	$\leq -30\%$	$\leq -30\%$
	Elongation		$\leq -30\%$	$\leq -30\%$
Cold bend		-40±1°CX16h	No crack	No crack
Heat stretch		200±3°C	$\leq 100\%$	$\leq 100\%$
Cold Shock		-40±1°CX16h	No crack	No crack
Flaming test				DZ-1



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The specifications are subject to change without prior notice.

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