



HIGH-TEMPERATURE LOW-SAG CABLE





Who We Are

Founded in 2006, V-MARC India has established itself as a trusted leader in wire and cable manufacturing. We specialize in producing a wide range of products, including HTLS-ACFR (Flexi), HTLS-ACSS, HTLS-ACFR (solid) with HTLS accessories.

At V-MARC India, innovation and customer satisfaction form the cornerstone of our vision and mission. We are committed to continuous improvement and have recently expanded our manufacturing facilities with HTLS-ACFR (Flexi), HTLS-ACSS, HTLS-ACFR (solid) with HTLS accessories.

We are excited to introduce first time in India our latest innovations: the HTLS-ACFR (Flexi) wires and 'eB+ power and solar cables,' developed using advanced e-Beam technology.

With a strong focus on quality and a customer-centric approach

We look forward to shaping the future of wire and cable manufacturing.

Certifications

- ✓ ISO Management System : ISO 9001 : 2015, ISO 14001 : 2015, ISO 45001 : 2018
ISO 27001 : 2022
- ✓ CE Europe by Certiva Ltd
- ✓ RoHS Compliance by Accenture International Certification
- ✓ BIS License : IS -694 (2010), IS-17048 (2018), IS-1554, (Part : 1988)
IS - 7098 (Part-I : 1998), IS-7098 (Part-2 : 2011), IS-7098 (Part-3:1993)
IS-14255 (1995), IS-398 (Part-2:1996), IS-398 (Part -4 : 1994), IS-17293 (2020)
IS-17505 (2021)



SELECTION OF SUITABLE TECHNOLOGY FOR HTLS CONDUCTORS



High-Temperature, Low-Sag PRODUCTS

ACFR(Flexi) Aluminium Conductor Carbon Fiber Reinforcement(Flexi)

Aluminium Conductor Fiber Reinforcement (Flexi)

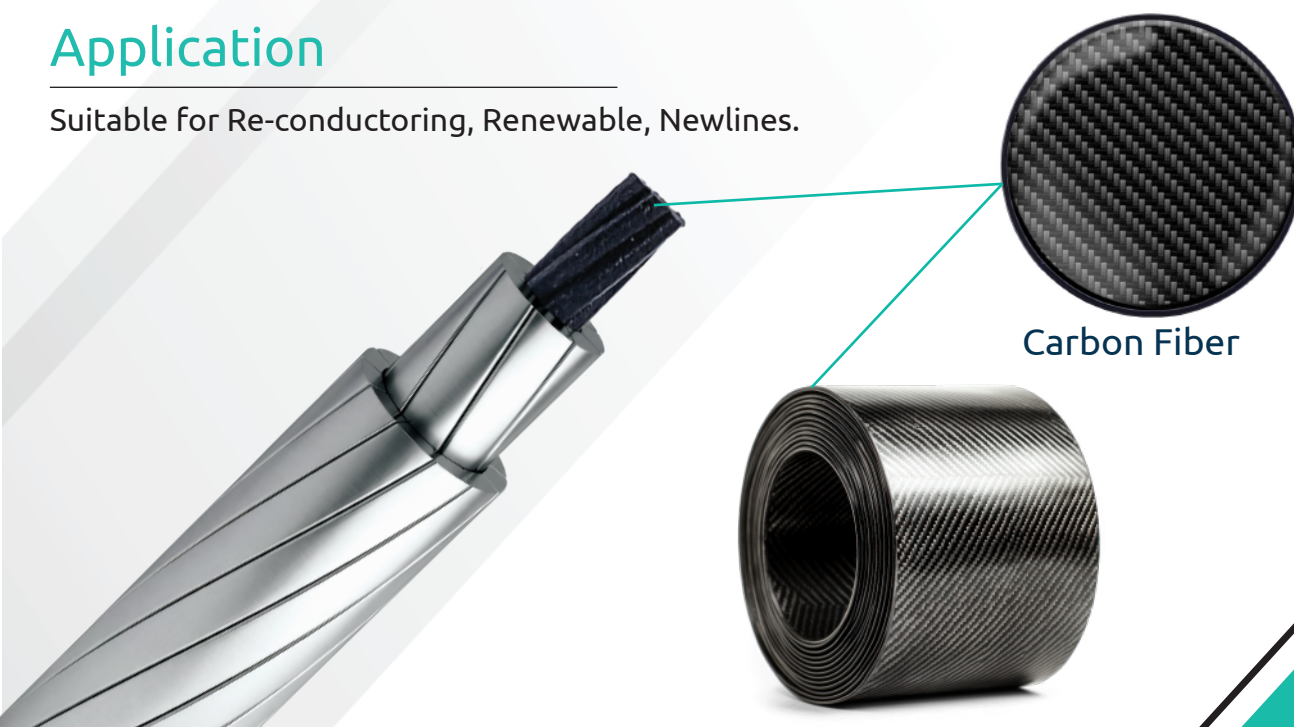
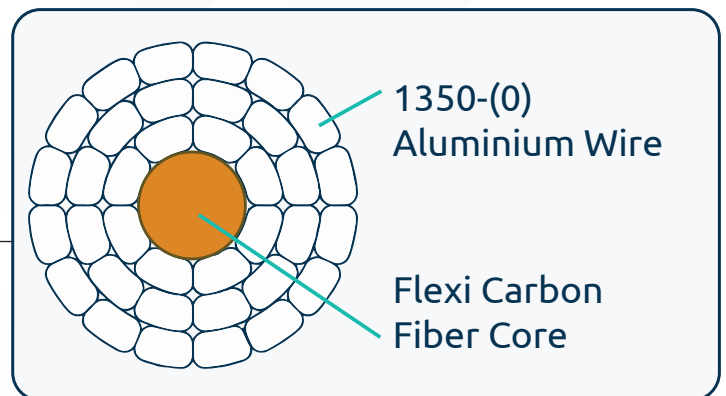
Composite Core (ACFR (Flexi)) Conductor consists of a solid Composite Fiber core which is wrapped with trapezoidal shaped aluminium strands.

Advantages

- 40% - 50 % reduction of line loss.
- Low weight and low SAG.
- 40%-50% Increase in current carrying capacity
- Easy in installation due to flexibility

Application

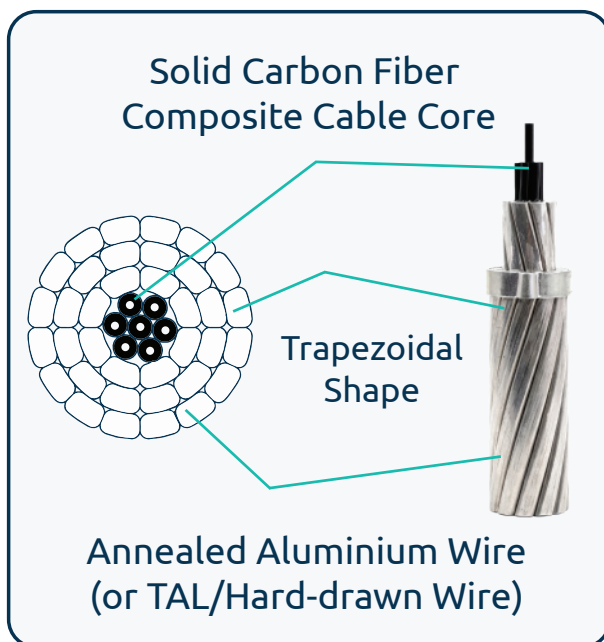
Suitable for Re-conductoring, Renewable, Newlines.





High-Temperature, Low-Sag PRODUCTS

ACFR Aluminium Conductor Fiber Reinforced



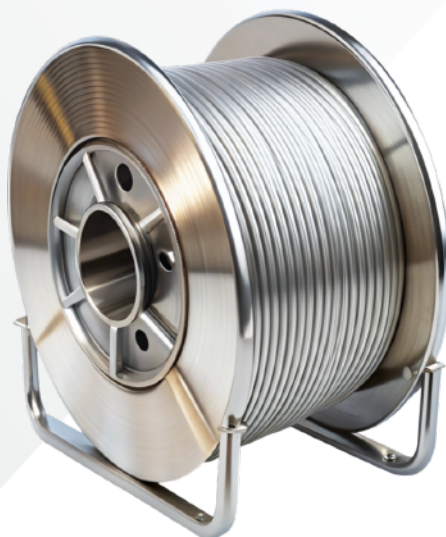
Aluminium Conductor Fiber Reinforced (ACFR) Conductor consists of a stranded carbon fiber core which is wrapped with trapezoidal / round shaped aluminium/STAL strands.

Advantages

- 50% reduction of Line loss.
- Low weight and Low SAG.
- Easy installation (just like ACSR)
- Stranded composite core
- Higher bending angle, smaller diameter sheaves

Application

Suitable for Re-conductoring, Renewable, Newlines.





High-Temperature, Low-Sag PRODUCTS

ACSS Aluminium Conductor Steel Supported

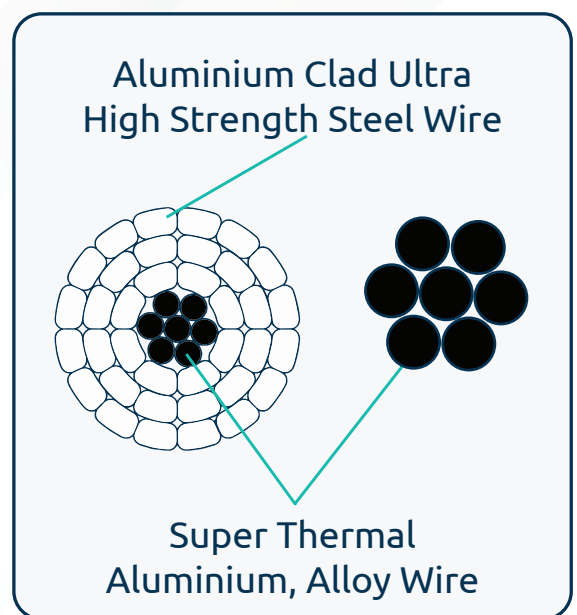
ACSS conductors are manufactured from Annealed Aluminium 1350 wires & an inner high tensile strength core of Galfan (Zn 5% Al Mischmetal) coated / Galvanized steel wires.

Advantages

- Capable of operating at upto 200 & 250° C.
- Low Loss due to Annealing of Aluminium

Application

Mostly suitable for New Lines



High-Temperature

Low-Sag Solutions

ACSS CONDUCTOR SIZES (metric units)

ACSR Conductor				ACSS Conductor							
Reference Size	Dia (mm)	UTS (kN)	DC Resist. at 20°C (Ohm/km)	ACSS Conductor Size	Conductor Size (mm ²)	Core Dia (mm)	Conductor Dia (mm)	Conductor unit weight (kg/km)	Conductor UTS (kN)	DC resist. at 20°C (Ohm/km)	*Amps at 180°C (Amps)
Dog	14.15	32.41	0.27920	ACSS Dog Eq.	118.5	4.71	14.15	394	32.68	0.26462	623A
Wolf	18.13	69.20	0.18280	ACSS Wolf Eq.	194.9	7.77	18.13	726	79.18	0.1771	820A
Panther	21.00	89.67	0.13900	ACSS Panther Eq.	261.5	9.00	21.00	974	106.23	0.1320	994A
Zebra	28.62	130.32	0.06868	ACSS Zebra Eq.	484.5	9.54	28.62	1621	128.11	0.06528	1556A
Moose	31.77	159.60	0.05552	ACSS Moose Eq.	597	10.59	31.77	1998	157.86	0.05298	1784A

ACFR CONDUCTOR SIZES (metric units)

ACSR Conductor				ACFR Conductor								
Reference Size	Dia (mm)	UTS (kN)	DC resist. at 20°C (Ohm/km)	ACFR Conductor Size	Dia (mm)	Conductor Size (mm ²)	CFCC Core (mm)	CFCC Core RTS (kN)	Conductor unit weight (kg/km)	Conductor UTS (kN)	DC resist. at 20°C (Ohm/km)	*Amps at 180°C (Amps)
Dog	14.15	32.41	0.27920	121/17-FA-TT	14.0	138.50	5.3	36.8	362.0	36.64	0.23060	662A
Wolf	18.13	69.20	0.18280	213/28-FA-TT	18.29	241.08	6.8	60.3	632.0	72.56	0.13130	955A
Panther	21.00	89.67	0.13900	281/37-FA-TT	21.00	317.86	7.8	79.5	835.0	95.66	0.09960	1145A
Zebra	28.62	130.32	0.06868	539/56-FA-TTT	28.62	595.3	9.6	121.0	1582.0	152.0	0.05195	1743A
Moose	31.77	159.60	0.05552	679/56-FA-TTT	31.77	735.59	9.6	121.0	1968	160.13	0.04120	2020A

Note: Current Carrying Capacity is Calculated by IEEE 738 as per the following Assumptions

Wind Velocity (m/sec)	0.61
Solar Absorption Co-efficient	0.5
Emissivity	0.5
Ambient Temperature (°C)	40
Solar Radiation (W/m ²)	1033
Elevation above sea level (m)	0

Note

ACFR conductor design can be customized for optimized solution based on customer's requirement

Our Presence



Our Offices

» Registered/Head Office

Plot No.3, 4, 18 & 20A
Sector - IIDC, SIDCUL, Haridwar
Uttarakhand - 249403

» Manufacturing Plant

Bahadrabad, Roorkee
Haridwar, Uttarakhand - 247667

» Noida Office

C-27, C Block, 3rd Floor
Trapezoid IT Park, Phase 2, Sector - 62
Noida, Uttar Pradesh - 201309

» Cochin Office

BS 8, Heavenly Plaza,
Civil Lines Rd, Vazhakkala
Cochin, Kerala-682030

» Mumbai Office

401 Acme Plaza, Opp. Sangam Theatre
Andheri Kurla Road, Andheri (East)
Mumbai -400093

» Chennai Office

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Vadaperumbakkam, Chennai
Tamilnadu - 600060



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