



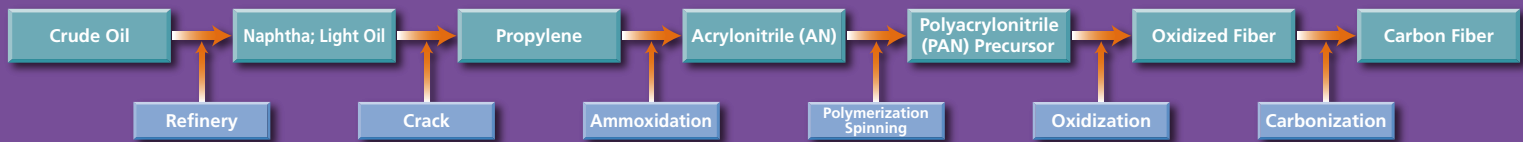
台塑關係企業
FORMOSA PLASTICS GROUP

TAIRYFIL

DATA SHEET / POWER CABLE

From Crude Oil to TAIRYFIL

THE INTEGRATED ADVANTAGE OF FORMOSA PLASTICS CORPORATION



Fiber Type	Item Unit	Number of Filament	Yield Tex (g/1,000m)	Tensile Strength			Tensile Modulus			Elongation (%)	Density (g/cm ³)	Filament Diameter (μ)
				kg/mm ²	Ksi	MPa	ton/mm ²	Msi	GPa			
TC-33	1.5K	1,500	100									
	3K	3,000	200	355	500	3,450	23.0	33	230	1.5	1.8	7
	6K	6,000	400									
TC-35R	12K	12,000	800									
	24K	24,000	1,600	410	580	4,000	24.5	35	240	1.7	1.8	7
	48K	48,000	3,200									
TC-35	3K	3,000	200	410	580	4,000	24.5	35	240	1.7	1.8	7
	6K	6,000	400									
	12K	12,000	800									
	24K	24,000	1,600	440	620	4,278	24.5	35	240	1.8	1.8	7
TC-36P	12K	12,000	800	500	710	4,900	25.5	36	250	2.0	1.8	7
	24K	24,000	1,600									
TC-42S	12K	12,000	440	580	825	5,690	29.5	42	290	2.0	1.81	5.1
	24K	24,000	880									
TC-55	12K	12,000	420	450	640	4,400	39.0	55	380	1.2	1.79	5.0
	24K	24,000	840									

WE DO EXCELLENCE FOR YOU

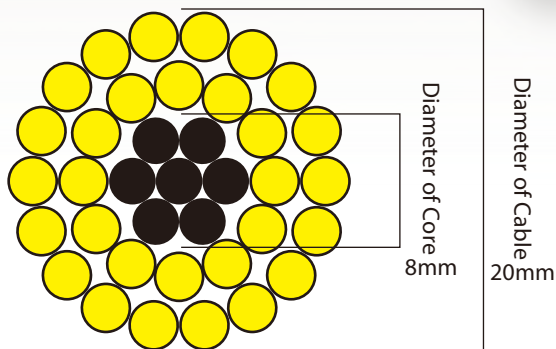
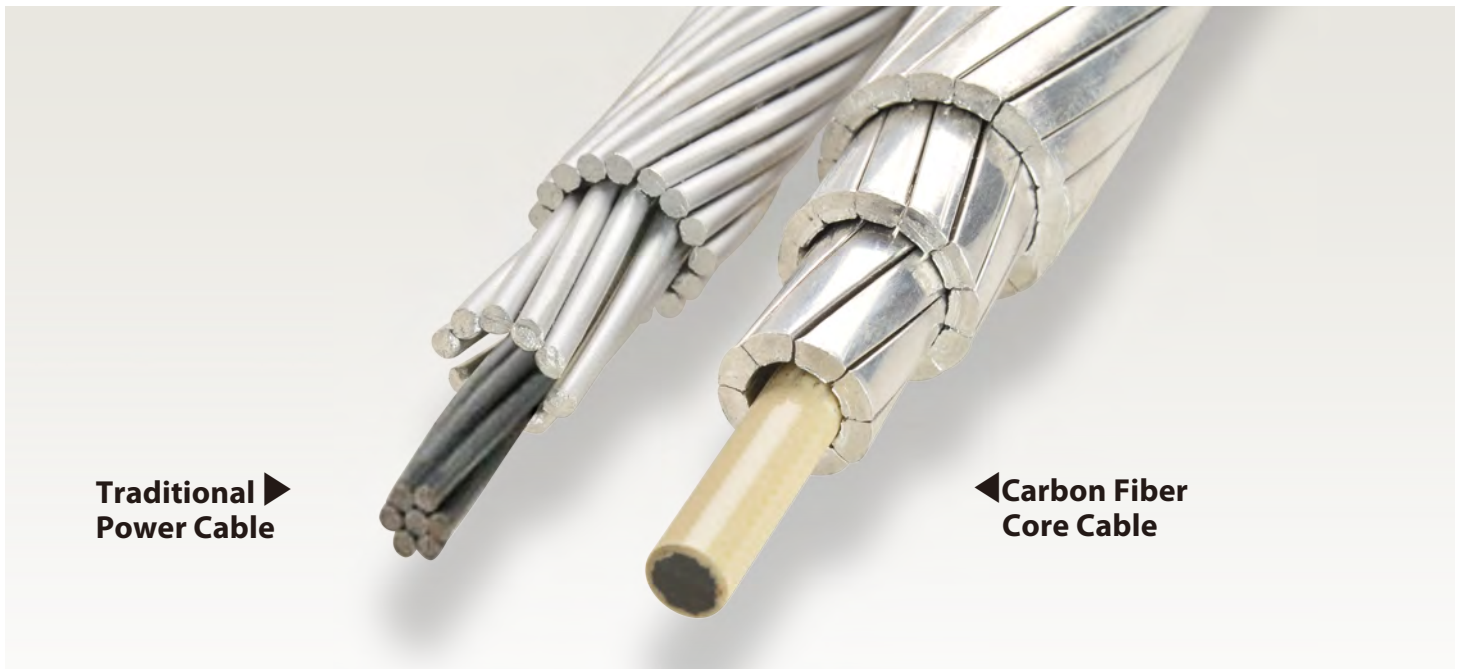
Formosa Plastics Corporation is the first company in Formosa Plastics Group. Formosa Plastics Group is the global leader in the industries of Petrochemicals, Fibers and Textiles, and Electronic Materials.

Formosa Plastics Corporation is the only company which enable to produce carbon fiber from refinery to carbonization in the world. With this unique integrated advantage, we are the best stable and excellent source for your need in carbon fiber.

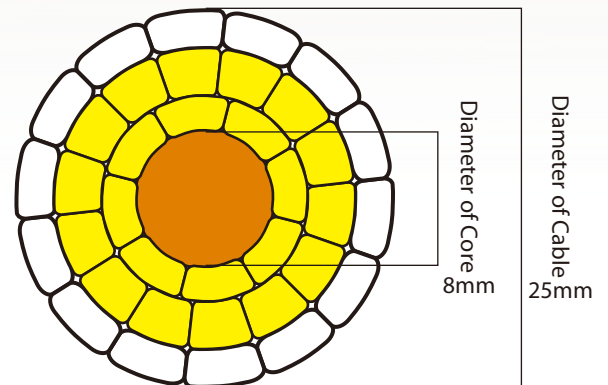
Specifications : TC36P-12K

Carbon Fiber Core Cable

High Strength: Improving the transmission capacity, increasing span between power towers, and saving construction cost.



Aluminum Conductor Steel- Reinforced Cable
Cross Sectional Area of the Aluminum : 264mm



Aluminum Conductor Carbon Fiber Core Cable
Cross Sectional Area of the Aluminum : 440mm

Item		Aluminum Conductor Carbon fiber Core cable	Aluminum Conductor Steel-Reinforced Cable (ACSR)
Tensile Strength (MPa)		2,200	1,600
Aluminum Stranded Conductor	Cross-sectional area	1.6 X	1 X
	Diameter	1.25 X	1 X
	Shape	The gap of Trapezoid is smaller with more effective area, which can reduce the diameter of core	
electrical potential difference with Aluminum		Lower (Reducing Corrosion)	Higher