ACSR Wire and Strand

***Camesa* ACSR wire provides mechanical support to aluminum conductors in aerial high tension lines. The conductor wire is stranded around the ACSR wire or strand.**

***Camesa* has great experience manufacturing to the demanding specifications for wire and strand that provide the support to aluminum conductors without risk of breaking.**

STANDARDS

Wire: ASTM B-498

Strand: ASTM B-500

Galvanization in Coating Classes A or B

USES

> In laying of high tension electric lines, ACSR wire or strand work mechanically, supporting tension stresses to which the aluminum conductor is subjected.

ADVANTAGES

> Continuous filament with no welds
> Presentation in reels – no rewinding is necessary
> Coils are fastened tightly in order to avoid displacements during transportation
> High ductility & tension strength
> Consistent surface finish
> Surface quality improves adhesion of paints and coatings
> Galvanized core wire and strand are protected from corrosion and provide dependable performance for many years under adverse weather conditions
> Manufactured and packaged to your specifications in an ISO 9001:2000 facility

CONFIGURATIONS

> 7-wire strand
> 19-wire strand
> 37-wire strand
> 61-wire strand

DIAMETERS

Wire sizes:
0.0525-0.188” (1.33 mm-4.78 mm)

Strand sizes:
0.234-0.745” (5.94 mm-18.92 mm)

PACKAGING

Coils:	397-419 lb (180-190 kg)
Wooden reels:	1,100-2,200 lb (500-1,000 kg)

ACSR WIRE SPECIFICATIONS (IMPERIAL)

Diameter in	Stress At 1% Extension - Ksi		Ultimate Tensile Strength - Ksi		Elongation - 250" min. %	
	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B
0.05 - 0.0899	190	180	210	200	3.0	3.0
0.90 - 0.1199	185	175	205	195	3.5	3.0
0.12 - 0.1399	180	170	205	195	4.0	3.0
0.14 - 0.1900	170	160	200	185	4.0	4.0

Diameter in	Zinc Coating - min. oz/ft²	
	CLASS A	CLASS B
0.0500 - 0.0599	0.60	1.20
0.0600 - 0.0749	0.65	1.30
0.0750 - 0.0899	0.70	1.40
0.0900 - 0.1039	0.75	1.50
0.1049 - 0.1199	0.80	1.60
0.1200 - 0.1399	0.85	1.70
0.1400 - 0.1799	0.90	1.80
0.1800 - 0.1900	1.00	2.00

ACSR WIRE SPECIFICATIONS (METRIC)

Diameter mm	Stress At 1% Extension - MPa		Ultimate Tensile Strength - MPa		Elongation - 250mm min. %	
	CLASS A	CLASS B	CLASS A	CLASS B	CLASS A	CLASS B
1.60 - 2.30	1310	1240	1450	1380	3.0	3.0
2.31 - 3.05	1280	1210	1410	1340	3.5	3.0
3.06 - 3.60	1240	1170	1410	1340	4.0	3.0
3.61 - 4.80	1170	1100	1380	1280	4.0	4.0

Diameter mm	Zinc Coating - min. g/m²	
	CLASS A	CLASS B
1.60 - 1.90	210	420
1.90 - 2.30	220	440
2.30 - 2.70	230	460
2.70 - 3.10	240	480
3.10 - 3.50	260	520
3.50 - 3.90	270	540
3.90 - 4.50	275	550
4.50 - 4.80	300	600