



TANGHENAM
WIRES & CABLES

TANGHENAM ELECTRIC WIRE & CABLE CO., LTD

Tel: 0723 635 999/888 Fax: 0723 632 151
66A, AREA 1, 830 ROAD, HAMLET 3, AN
THANH VILLAGE, BEN LUC DISTRICT,
LONG AN PROVINCE, VIETNAM
www.tanghenam.vn



TECHNICAL PARTICULARS FOR SOFT-ALUMINUM (1350-0) CONDUCTOR ALUMINUM-CLAD STEEL CORE WIRE – [477KCMIL]

Stt	Description	Unit	Required
1.	Country of origin		VIET NAM
2.	Manufacturer		TANGHENAM ELECTRIC WIRE & CABLE CO.,LTD
3.	Code word		FLICKER/ACSS/AW2
4.	Applicable standard		ASTM B856; ASTM B609; ASTM B502; ASTM B500
5.	Quality management system		ISO 9001 : 2015 ISO 14001 : 2015
6.	Type of conductor		ACSS/AW is a composite concentric-lay-stranded conductor. Steel strands form the central core of the conductor with one or more layers of aluminum 1350-0 wire stranded around it. The steel core carries most or all of the mechanical load of the conductor due to the "0" (fully annealed or soft) temper aluminum. Steel core wires are protected from corrosion by an aluminum coating(AW2).
7.	Size	Kcmil	477
8.	Stranding (Aluminum/Steel)	No	24/07
	<u>TECHNICAL OF ALUMINUM WIRES (1350-0)</u>		
9.	Diameter of individual Aluminum wire	mm	3.58 ^{±0.03}
10.	Tensile strength of Aluminum wires	Mpa	60 - 95
11.	Min. Elongation of Aluminum wires	%	> 20
	<u>TECHNICAL OF ALUMINUM-CLAD STEEL CORE (AW2)</u>		
12.	Diameter of individual Steel wire	mm	2.39 ^{±0.04}
13.	Min. tensile strength of Steel wires	Mpa	> 1344
14.	Min. Stress at 1% extension of steel wires	Mpa	> 1206
15.	Min. Elongation of Steel wires	%	> 1.5
16.	Thickness of Aluminum coating (<i>min. 10% of the nominal wire radius</i>)	mm	> 0.12



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CONDUCTOR ALUMINUM-CLAD STEEL CORE WIRE – [477KCMIL]**

Stt	Description	Unit	Required
17.	Twisted direction of lay of outside steel layer		right-hand
	<u>ACSS/AW2 CABLE</u>		
18.	Approx. Overall Diameter (OD)	mm	21.50
19.	Twisted direction of lay of outside cable		Right-hand
20.	Max. DC resistance at 20 ⁰ C	Ω/km	≤ 0.1112
21.	Min. Rated breaking strength complete cable	kN	> 55.6
22.	Approx. Weight of cable	Kg/km	876.5
23.	Ratio of lay		
	Steel core + layer (7 wires)		16 – 26
	Aluminum core + 2 nd layer (9 wires) + 1 st layer (15 wires) – outside layer		10 – 16 10 – 13

Cross-section Drawings only refer.

